



Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

**State of West Virginia  
 Request for Quotation**

**Proc Folder:** 91816

**Doc Description:** ADDENDUM 1-LAUNDRY, DISHWASH AND CLEANING SUPPLIES OPEN-END

**Proc Type:** Central Master Agreement

Date Issued	Solicitation Closes	Solicitation No	Version
2015-04-17	2015-05-12 13:30:00	CRFQ 0621 DJS1500000011	2


BID CLERK  
 DEPARTMENT OF ADMINISTRATION  
 PURCHASING DIVISION  
 2019 WASHINGTON ST E  
 CHARLESTON WV 25305  
 US

**Vendor Name, Address and Telephone Number:**  
 Ecolab Inc.  
 370 Wabasha St. North  
 St. Paul, MN 55102  
 ORDER CONTACT INFORMATION  
 PH: 800 352 5326  
 FX: 651 225 3098  
 EM: institutionalorders@ecolab.com

Bruce Kottom, Sr. Government Sales Manager  
 PH: 651 250 2892  
 Fax: 651 306 5429  
 EM: bruce.kottom@ecolab.com

05/11/15 10:01:56  
 WV Purchasing Division

**FOR INFORMATION CONTACT THE BUYER**  
 Laura E Hooper  
 (304) 558-0468  
 laura.e.hooper@wv.gov

Signature X  FEIN # 41 - 0231510 DATE 05/08/2015

All offers subject to all terms and conditions contained in this solicitation





<b>ALL STATE AGENCIES</b> VARIOUS LOCATIONS AS INDICATED BY ORDER		AUTHORIZED RECEIVER JUVENILE SERVICES DIVISION OF 1200 QUARRIER ST	
No City	WV99999	CHARLESTON	WV 25301
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
6	SOLID POT AND PAN DETERGENT	25.00000	EA	\$23.355 per 5 lb each \$93.42 per 4/5 lb case	\$583.875

Comm Code	Manufacturer	Specification	Model #
47131800	Ecolab Inc.	Solitaire, 4/5 lb case	#17301

**Extended Description :**  
 SOLITAIRE OR EQUAL POT AND PAN DETERGENT CASE SIZE: 4/8 LB. CONTAINERS.  
 ECOLAB PRODUCT # 17301

<b>ALL STATE AGENCIES</b> VARIOUS LOCATIONS AS INDICATED BY ORDER		AUTHORIZED RECEIVER JUVENILE SERVICES DIVISION OF 1200 QUARRIER ST	
No City	WV99999	CHARLESTON	WV 25301
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Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
7	LIQUID POT AND PAN DETERGENT	20.00000	EA	\$10.225 per 1 gal \$40.90 per 4/1 gal case	\$204.50

Comm Code	Manufacturer	Specification	Model #
47131800	Ecolab Inc.	Pan Dandy, 4/1 gallon case	#11262

**Extended Description :**  
 ECOLAB PAN DANDY OR EQUAL LIQUID POT AND PAN DETERGENT CASE SIZE: 4/1 GAL. CONTAINERS.  
 ECOLAB PRODUCT # 11262

<b>INVOICE TO</b> ALL STATE AGENCIES VARIOUS LOCATIONS AS INDICATED BY ORDER		<b>SHIP TO</b> AUTHORIZED RECEIVER JUVENILE SERVICES DIVISION OF 1200 QUARRIER ST	
No City	WV99999	CHARLESTON	WV 25301
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Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
8	LIQUID POT AND PAN DETERGENT	20.00000	EA	\$15.315 per gallon \$61.26 per 4/1 gal case	\$306.30

Comm Code	Manufacturer	Specification	Model #
47131800	Ecolab Inc.	Pantastic, 4/1 gallon case	#12963

**Extended Description :**  
 ECOLAB PANTASTIC OR EQUAL LIQUID POT AND PAN DETERGENT CASE SIZE: 4/1 GAL. CONTAINERS.  
 ECOLAB PRODUCT #12963

INVOICE TO		SHIP TO	
ALL STATE AGENCIES VARIOUS LOCATIONS AS INDICATED BY ORDER		AUTHORIZED RECEIVER JUVENILE SERVICES DIVISION OF 1200 QUARRIER ST	
No City	WV99999	CHARLESTON	WV 25301
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
9	SILVERWARE PRE-SOAK	15.00000	EA	\$32.305 per 8lb ea \$64.61 per 2/8 lb case	\$484.575

Comm Code	Manufacturer	Specification	Model #
47131800	Ecolab Inc.	Solid Silver Power, 2/8 lb case	#12922

**Extended Description :**  
 ECOLAB SILVER POWER OR EQUAL SILVERWARE PRE-SOAK. CASE SIZE: 2/6 LB. CONTAINERS.  
 ECOLAB PRODUCT #12922

INVOICE TO		SHIP TO	
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No City	WV99999	CHARLESTON	WV 25301
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
10	STAINLESS STEEL CLEANER/POLISH	30.00000	EA	\$9.62 per 32 oz can \$57.73 per 6/32 oz case	\$288.60

Comm Code	Manufacturer	Specification	Model #
47131800	Ecolab Inc.	EcoShine, 6/32 oz case	#18440

**Extended Description :**  
 ECHOSHINE OR EQUAL WATER BASED STAINLESS STEEL CLEANER/POLISH  
 CASE SIZE: 6/32OZ.  
 ECOLAB PRODUCT #18440

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No City	WV99999	CHARLESTON	WV 25301
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
11	STAINLESS STEEL CLEANER/ POLISH	24.00000	EA	\$3.55 per 17 oz can \$42.60 per 12/17 oz case	\$85.20

Comm Code	Manufacturer	Specification	Model #
47131800	Ecolab Inc.	Stainless Steel Cleaner 12/17 oz case	#18903

**Extended Description :**  
 ECOLAB SS POLISH OR EQUAL OIL BASED STAINLESS STEEL CLEANER/POLISH  
 CASE SIZE: 12/17OZ.

ECOLAB PRODUCT #18903

ALL STATE AGENCIES VARIOUS LOCATIONS AS INDICATED BY ORDER		AUTHORIZED RECEIVER JUVENILE SERVICES DIVISION OF 1200 QUARRIER ST	
No City	WV99999	CHARLESTON	WV 25301
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
12	NON-CAUSTIC OVEN CLEANER	30.00000	EA	\$6.25 per 32 oz can \$37.50 per 6/32 oz case	\$187.50

Comm Code	Manufacturer	Specification	Model #
47131800	Ecolab Inc.	Greaselift, 6/32 oz case	#6100284

**Extended Description :**  
 ECOLAB GREASELIFT NON CAUSTIC DEGREASER OVEN CLEANER OR EQUAL.  
 CASE SIZE: 6/32OZ.

ECOLAB PRODUCT #6100284

INVOICE TO	SHIP TO
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No City	WV99999
US	US
	CHARLESTON
	WV 25301

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
13	HEAVY DUTY DEGREASER OVEN CLEANER	20.00000	EA	\$19.45 per gallon \$77.80 per 4/1 gallon case	\$389.00

Comm Code	Manufacturer	Specification	Model #
47131800	Ecolab Inc.	Greasestrip Plus, 4/1 gallon case	#19505

**Extended Description :**  
 ECOLAB GREASTRIP PLUS HEAVY DUTY DEGREASER OVEN CLEANER OR EQUAL.  
 CASE SIZE: 4/1 GALLON  
 ECOLAB PRODUCT #19505

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No City	WV99999	CHARLESTON	WV 25301
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
14	DRAIN TREATMENT	5.00000	EA	\$214.60 per 2.5 gal	\$1,073.00
		2.5 gal			

Comm Code	Manufacturer	Specification	Model #
47131800	Ecolab Inc.	Pathways Drain Treatment, 2.5 gal	#29810

**Extended Description :**  
 ECOLAB PATHWAYS DRAIN TREATMENT ENZYMATIC DRAIN MAINTAINER OR EQUAL.  
 CASE SIZE: 2.5 GALLON  
 ECOLAB PRODUCT #29810

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No City	WV99999	CHARLESTON	WV 25301
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Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
15	SOLID SURGE PLUS SOLID LAUNDRY DETERGENT	300.00000	EA	\$39.7175 per 9lb ea \$158.87 per 4/9 lb case	\$11,915.25

Comm Code	Manufacturer	Specification	Model #
47131800	Ecolab Inc.	Solid Surge Plus, 4/9 lb case	#17905

**Extended Description :**  
 ECOLAB SOLID SURGE PLUS SOLID LAUNDRY DETERGENT OR EQUAL. CASE SIZE 4/9 LBS.  
 ECOLAB PRODUCT #17905



Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
18	SOLID LAUNDRY DETERGENT	5.00000	EA	\$20.20 per 4lb ea \$80.80 per 4/4 lb case	\$101.00

Comm Code	Manufacturer	Specification	Model #
47131800	Ecolab Inc.	Homestyle Solid Laundry, 4/4 lb case	#6100150

**Extended Description :**

ECOLAB HOMESTYLE SOLID LAUNDRY DETERGENT OR EQUAL  
CASE SIZE 4/4 LBS.

ECOLAB PRODUCT #6100150

SHIP TO	
ALL STATE AGENCIES VARIOUS LOCATIONS AS INDICATED BY ORDER	AUTHORIZED RECEIVER JUVENILE SERVICES DIVISION OF 1200 QUARRIER ST
No City                                      WV99999	CHARLESTON                                      WV 25301
US	US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
19	SOLID DESTAINER	10.00000	EA	\$26.79 per 2.6lb ea \$53.85 per 2/2.6 lb case	\$267.90

Comm Code	Manufacturer	Specification	Model #
47131800	Ecolab Inc.	Solid Destainer, 2/2.6 lb case	#14508

**Extended Description :**

EVCOLAB SOLID DESTAINER-HOMESTYLE SOLID LAUNDRY BLEACH OR EQUAL  
CASE SIZE 2/ 2.2 LBS.

ECOLAB PRODUCT #14508

SHIP TO	
ALL STATE AGENCIES VARIOUS LOCATIONS AS INDICATED BY ORDER	AUTHORIZED RECEIVER JUVENILE SERVICES DIVISION OF 1200 QUARRIER ST
No City                                      WV99999	CHARLESTON                                      WV 25301
US	US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
20	LIQUID LAUNDRY DETERGENT	5.00000	EA	\$99.94 per 5 gal ea	\$499.70

Comm Code	Manufacturer	Specification	Model #
47131800	Ecolab Inc.	TriStar L2000XP, 5 gal pail	#6100031

**Extended Description :**

ECOLAB TRISTAR L2000 LIQUID LAUNDRY DETERGENT OR EQUAL  
CASE SIZE: 5 GALLON

ECOLAB PRODUCT #6100031

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Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
21	LIQUID LAUNDRY BLEACH	5.00000	EA	\$29.89 per 5 gal ea	\$149.45

Comm Code	Manufacturer	Specification	Model #
47131800	Ecolab Inc.	Destainer, 5 gal pail	#15982

**Extended Description :**  
 ECOLAB DESTAINER LIQUID LAUNDRY BLEACH/STAIN REMOVER OR EQUAL  
 CASE SIZE: 5 GALLON

ECOLAB PRODUCT #15982

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Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
22	LIQUID LAUNDRY SOFTENER	5.00000	EA	\$66.89 per 5 gal ea	\$334.45

Comm Code	Manufacturer	Specification	Model #
47131800	Ecolab Inc.	TriStar So Fresh, 5 gal pail	#14310

**Extended Description :**  
 ECOLAB SO FRESH LIQUID LAUNDRY SOFTENER OR EQUAL  
 CASE SIZE: 5 GALLON

ECOLAB PRODUCT #14310

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Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
31	*STREAK FREE GLASS CLEANER	10.00000	EA	\$24.01 per 2 Liter ea \$48.02 per 2/2 Liter case	\$240.10

Comm Code	Manufacturer	Specification	Model #
47131800	Ecolab Inc.	Glass Cleaner, 2/2 Liter case	#6100289

**Extended Description :**  
 ECOLAB GLASS CLEANER OR EQUAL STREAK FREE GLASS CLEANER (FOR CADDY)  
 CASE SIZE: 2/ 2LTR.

ECOLAB PRODUCT #6100289

ALL STATE AGENCIES VARIOUS LOCATIONS AS INDICATED BY ORDER		AUTHORIZED RECEIVER JUVENILE SERVICES DIVISION OF 1200 QUARRIER ST	
No City	WV99999	CHARLESTON	WV 25301
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
32	FLOOR FINISH	5.00000	EA	\$32.96 per 2.5 gal cont	\$164.80

Comm Code	Manufacturer	Specification	Model #
47131800	Ecolab Inc.	Laser, 2.5 gal container	#61189723

**Extended Description :**  
 ECOLAB LASER OR EQUAL LOW MAINTENANCE FLOOR FINISH  
 CASE SIZE: 2.5 GALLON

ECOLAB PRODUCT #61189723

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Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
33	FREEZER FLOOR CLEANER	10.00000	EA	\$17.4875 per gallon \$69.95 per 4/1 gal case	\$174.875

Comm Code	Manufacturer	Specification	Model #
47131800	Ecolab Inc.	Kool Clean, 4/1 gal case	#15461

**Extended Description :**

ECOLAB KOOL CLEAN FREEZER FLOOR CLEANER OR EQUAL  
CASE SIZE: 4/1 GALLON

ECOLAB PRODUCT # 15461

ALL STATE AGENCIES VARIOUS LOCATIONS AS INDICATED BY ORDER		AUTHORIZED RECEIVER JUVENILE SERVICES DIVISION OF 1200 QUARRIER ST	
No City	WV99999	CHARLESTON	WV 25301
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
34	DISH MACHINE DETERGENT	10.00000	EA	\$15.7725 per 8lb ea \$63.09 per 4/8 gal case	\$157.725

Comm Code	Manufacturer	Specification	Model #
47131800	Ecolab Inc.	Solid Metal Pro, 4/8 lb case	#10751

**Extended Description :**

ECOLAB SOLID METAL PRO OR EQUAL METAL SAFE DISH MACHINE DETERGENT.  
CASE SIZE: 4/ 8LB. CAPSULES

ECOLAB PRODUCT # 10751

	<b>Document Phase</b>	<b>Document Description</b>	<b>Page</b>
<b>DJS150000011</b>	Final	ADDENDUM 1-LAUNDRY, DISHWASH A ND CLEANING SUPPLIES OPEN-END	<b>16 o</b> <b>16</b>

**ADDITIONAL TERMS AND CONDITIONS**

See attached document(s) for additional Terms and Conditions

## GENERAL TERMS AND CONDITIONS:

1. **CONTRACTUAL AGREEMENT:** Issuance of a Award Document signed by the Purchasing Division Director, or his designee, and approved as to form by the Attorney General's office constitutes acceptance of this Contract made by and between the State of West Virginia and the Vendor. Vendor's signature on its bid signifies Vendor's agreement to be bound by and accept the terms and conditions contained in this Contract.
2. **DEFINITIONS:** As used in this Solicitation/Contract, the following terms shall have the meanings attributed to them below. Additional definitions may be found in the specifications included with this Solicitation/Contract.
  - 2.1. **"Agency" or "Agencies"** means the agency, board, commission, or other entity of the State of West Virginia that is identified on the first page of the Solicitation or any other public entity seeking to procure goods or services under this Contract.
  - 2.2. **"Contract"** means the binding agreement that is entered into between the State and the Vendor to provide the goods or services requested in the Solicitation.
  - 2.3. **"Director"** means the Director of the West Virginia Department of Administration, Purchasing Division.
  - 2.4. **"Purchasing Division"** means the West Virginia Department of Administration, Purchasing Division.
  - 2.5. **"Award Document"** means the document signed by the Agency and the Purchasing Division, and approved as to form by the Attorney General, that identifies the Vendor as the contract holder.
  - 2.6. **"Solicitation"** means the official notice of an opportunity to supply the State with goods or services that is published by the Purchasing Division.
  - 2.7. **"State"** means the State of West Virginia and/or any of its agencies, commissions, boards, etc. as context requires.
  - 2.8. **"Vendor" or "Vendors"** means any entity submitting a bid in response to the Solicitation, the entity that has been selected as the lowest responsible bidder, or the entity that has been awarded the Contract as context requires.

3. **CONTRACT TERM; RENEWAL; EXTENSION:** The term of this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below:

**Term Contract**

**Initial Contract Term:** This Contract becomes effective on award and extends for a period of one (1) year(s).

**Renewal Term:** This Contract may be renewed upon the mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). Any request for renewal should be submitted to the Purchasing Division thirty (30) days prior to the expiration date of the initial contract term or appropriate renewal term. A Contract renewal shall be in accordance with the terms and conditions of the original contract. Renewal of this Contract is limited to three (3) successive one (1) year periods or multiple renewal periods of less than one year, provided that the multiple renewal periods do not exceed 36 months in total. Automatic renewal of this Contract is prohibited. Notwithstanding the foregoing, Purchasing Division approval is not required on agency delegated or exempt purchases. Attorney General approval may be required for vendor terms and conditions.

**Delivery Order Limitations:** In the event that this contract permits delivery orders, a delivery order may only be issued during the time this Contract is in effect. Any delivery order issued within one year of the expiration of this Contract shall be effective for one year from the date the delivery order is issued. No delivery order may be extended beyond one year after this Contract has expired.

**Fixed Period Contract:** This Contract becomes effective upon Vendor's receipt of the notice to proceed and must be completed within \_\_\_\_\_ days.

**Fixed Period Contract with Renewals:** This Contract becomes effective upon Vendor's receipt of the notice to proceed and part of the Contract more fully described in the attached specifications must be completed within \_\_\_\_\_ days. Upon completion, the vendor agrees that maintenance, monitoring, or warranty services will be provided for one year thereafter with an additional \_\_\_\_\_ successive one year renewal periods or multiple renewal periods of less than one year provided that the multiple renewal periods do not exceed \_\_\_\_\_ months in total. Automatic renewal of this Contract is prohibited.

**One Time Purchase:** The term of this Contract shall run from the issuance of the Award Document until all of the goods contracted for have been delivered, but in no event will this Contract extend for more than one fiscal year.

**Other:** See attached.

4. **NOTICE TO PROCEED:** Vendor shall begin performance of this Contract immediately upon receiving notice to proceed unless otherwise instructed by the Agency. Unless otherwise specified, the fully executed Award Document will be considered notice to proceed.
  
5. **QUANTITIES:** The quantities required under this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below.
  - Open End Contract:** Quantities listed in this Solicitation are approximations only, based on estimates supplied by the Agency. It is understood and agreed that the Contract shall cover the quantities actually ordered for delivery during the term of the Contract, whether more or less than the quantities shown.
  
  - Service:** The scope of the service to be provided will be more clearly defined in the specifications included herewith.
  
  - Combined Service and Goods:** The scope of the service and deliverable goods to be provided will be more clearly defined in the specifications included herewith.
  
  - One Time Purchase:** This Contract is for the purchase of a set quantity of goods that are identified in the specifications included herewith. Once those items have been delivered, no additional goods may be procured under this Contract without an appropriate change order approved by the Vendor, Agency, Purchasing Division, and Attorney General's office.
  
6. **PRICING:** The pricing set forth herein is firm for the life of the Contract, unless specified elsewhere within this Solicitation/Contract by the State. A Vendor's inclusion of price adjustment provisions in its bid, without an express authorization from the State in the Solicitation to do so, may result in bid disqualification.
  
7. **EMERGENCY PURCHASES:** The Purchasing Division Director may authorize the Agency to purchase goods or services in the open market that Vendor would otherwise provide under this Contract if those goods or services are for immediate or expedited delivery in an emergency. Emergencies shall include, but are not limited to, delays in transportation or an unanticipated increase in the volume of work. An emergency purchase in the open market, approved by the Purchasing Division Director, shall not constitute of breach of this Contract and shall not entitle the Vendor to any form of compensation or damages. This provision does not excuse the State from fulfilling its obligations under a One Time Purchase contract.
  
8. **REQUIRED DOCUMENTS:** All of the items checked below must be provided to the Purchasing Division by the Vendor as specified below.

**BID BOND:** All Vendors shall furnish a bid bond in the amount of five percent (5%) of the total amount of the bid protecting the State of West Virginia. The bid bond must be submitted with the bid.

**PERFORMANCE BOND:** The apparent successful Vendor shall provide a performance bond in the amount of \_\_\_\_\_. The performance bond must be received by the Purchasing Division prior to Contract award. On construction contracts, the performance bond must be 100% of the Contract value.

**LABOR/MATERIAL PAYMENT BOND:** The apparent successful Vendor shall provide a labor/material payment bond in the amount of 100% of the Contract value. The labor/material payment bond must be delivered to the Purchasing Division prior to Contract award.

In lieu of the Bid Bond, Performance Bond, and Labor/Material Payment Bond, the Vendor may provide certified checks, cashier's checks, or irrevocable letters of credit. Any certified check, cashier's check, or irrevocable letter of credit provided in lieu of a bond must be of the same amount and delivered on the same schedule as the bond it replaces. A letter of credit submitted in lieu of a performance and labor/material payment bond will only be allowed for projects under \$100,000. Personal or business checks are not acceptable.

**MAINTENANCE BOND:** The apparent successful Vendor shall provide a two (2) year maintenance bond covering the roofing system. The maintenance bond must be issued and delivered to the Purchasing Division prior to Contract award.

**INSURANCE:** The apparent successful Vendor shall furnish proof of the following insurance prior to Contract award and shall list the state as a certificate holder:

**Commercial General Liability Insurance:** In the amount of \$250,000.00  
\_\_\_\_\_ or more.

**Builders Risk Insurance:** In an amount equal to 100% of the amount of the Contract.



The apparent successful Vendor shall also furnish proof of any additional insurance requirements contained in the specifications prior to Contract award regardless of whether or not that insurance requirement is listed above.

**LICENSE(S) / CERTIFICATIONS / PERMITS:** In addition to anything required under the Section entitled Licensing, of the General Terms and Conditions, the apparent successful Vendor shall furnish proof of the following licenses, certifications, and/or permits prior to Contract award, in a form acceptable to the Purchasing Division.

The apparent successful Vendor shall also furnish proof of any additional licenses or certifications contained in the specifications prior to Contract award regardless of whether or not that requirement is listed above.

**9. WORKERS' COMPENSATION INSURANCE:** The apparent successful Vendor shall comply with laws relating to workers compensation, shall maintain workers' compensation insurance when required, and shall furnish proof of workers' compensation insurance upon request.

**10. LITIGATION BOND:** The Director reserves the right to require any Vendor that files a protest of an award to submit a litigation bond in the amount equal to one percent of the lowest bid submitted or \$5,000, whichever is greater. The entire amount of the bond shall be forfeited if the hearing officer determines that the protest was filed for frivolous or improper purpose, including but not limited to, the purpose of harassing, causing unnecessary delay, or needless expense for the Agency. All litigation bonds shall be made payable to the Purchasing Division. In lieu of a bond, the protester may submit a cashier's check or certified check payable to the Purchasing Division. Cashier's or certified checks will be deposited with and held by the State Treasurer's office. If it is determined that the protest has not been filed for frivolous or improper purpose, the bond or deposit shall be returned in its entirety.

**11. LIQUIDATED DAMAGES:** Vendor shall pay liquidated damages in the amount of \_\_\_\_\_  
for \_\_\_\_\_.  
This clause shall in no way be considered exclusive and shall not limit the State or Agency's right to pursue any other available remedy.

- 12. ACCEPTANCE/REJECTION:** The State may accept or reject any bid in whole, or in part. Vendor's signature on its bid signifies acceptance of the terms and conditions contained in the Solicitation and Vendor agrees to be bound by the terms of the Contract, as reflected in the Award Document, upon receipt.
- 13. FUNDING:** This Contract shall continue for the term stated herein, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise made available, this Contract becomes void and of no effect beginning on July 1 of the fiscal year for which funding has not been appropriated or otherwise made available.
- 14. PAYMENT:** Payment in advance is prohibited under this Contract. Payment may only be made after the delivery and acceptance of goods or services. The Vendor shall submit invoices, in arrears.
- 15. TAXES:** The Vendor shall pay any applicable sales, use, personal property or any other taxes arising out of this Contract and the transactions contemplated thereby. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
- 16. CANCELLATION:** The Purchasing Division Director reserves the right to cancel this Contract immediately upon written notice to the vendor if the materials or workmanship supplied do not conform to the specifications contained in the Contract. The Purchasing Division Director may also cancel any purchase or Contract upon 30 days written notice to the Vendor in accordance with West Virginia Code of State Rules § 148-1-7.16.2.
- 17. TIME:** Time is of the essence with regard to all matters of time and performance in this Contract.
- 18. APPLICABLE LAW:** This Contract is governed by and interpreted under West Virginia law without giving effect to its choice of law principles. Any information provided in specification manuals, or any other source, verbal or written, which contradicts or violates the West Virginia Constitution, West Virginia Code or West Virginia Code of State Rules is void and of no effect.
- 19. COMPLIANCE:** Vendor shall comply with all applicable federal, state, and local laws, regulations and ordinances. By submitting a bid, Vendor acknowledges that it has reviewed, understands, and will comply with all applicable law.
- 20. PREVAILING WAGE:** On any contract for the construction of a public improvement whose cost at the time the contract is awarded will be paid with public money in an amount greater than \$500,000. Vendor and any subcontractors utilized by Vendor shall pay a rate or rates of wages which shall not be less than the fair minimum rate or rates of wages (prevailing wage), as established under West Virginia Code §§ 21-5A-1 et seq. Vendor shall

be responsible for ensuring compliance with prevailing wage requirements and determining when prevailing wage requirements are applicable.

21. **ARBITRATION:** Any references made to arbitration contained in this Contract, Vendor's bid, or in any American Institute of Architects documents pertaining to this Contract are hereby deleted, void, and of no effect.
22. **MODIFICATIONS:** This writing is the parties' final expression of intent. Notwithstanding anything contained in this Contract to the contrary, no modification of this Contract shall be binding without mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). No Change shall be implemented by the Vendor until such time as the Vendor receives an approved written change order from the Purchasing Division.
23. **WAIVER:** The failure of either party to insist upon a strict performance of any of the terms or provision of this Contract, or to exercise any option, right, or remedy herein contained, shall not be construed as a waiver or a relinquishment for the future of such term, provision, option, right, or remedy, but the same shall continue in full force and effect. Any waiver must be expressly stated in writing and signed by the waiving party.
24. **SUBSEQUENT FORMS:** The terms and conditions contained in this Contract shall supersede any and all subsequent terms and conditions which may appear on any form documents submitted by Vendor to the Agency or Purchasing Division such as price lists, order forms, invoices, sales agreements, or maintenance agreements, and includes internet websites or other electronic documents. Acceptance or use of Vendor's forms does not constitute acceptance of the terms and conditions contained thereon.
25. **ASSIGNMENT:** Neither this Contract nor any monies due, or to become due hereunder, may be assigned by the Vendor without the express written consent of the Agency, the Purchasing Division, the Attorney General's office (as to form only), and any other government agency or office that may be required to approve such assignments. Notwithstanding the foregoing, Purchasing Division approval may or may not be required on certain agency delegated or exempt purchases.
26. **WARRANTY:** The Vendor expressly warrants that the goods and/or services covered by this Contract will: (a) conform to the specifications, drawings, samples, or other description furnished or specified by the Agency; (b) be merchantable and fit for the purpose intended; and (c) be free from defect in material and workmanship.
27. **STATE EMPLOYEES:** State employees are not permitted to utilize this Contract for personal use and the Vendor is prohibited from permitting or facilitating the same.
28. **BANKRUPTCY:** In the event the Vendor files for bankruptcy protection, the State of West Virginia may deem this Contract null and void, and terminate this Contract without notice.

**29. CONFIDENTIALITY:** The Vendor agrees that it will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the Agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the Agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/default.html>.

**30. DISCLOSURE:** Vendor's response to the Solicitation and the resulting Contract are considered public documents and will be disclosed to the public in accordance with the laws, rules, and policies governing the West Virginia Purchasing Division. Those laws include, but are not limited to, the Freedom of Information Act found in West Virginia Code §§ 29B-1-1 et seq. and the competitive bidding laws found West Virginia Code §§ 5A-3-1 et seq., 5-22-1 et seq., and 5G-1-1 et seq.

If a Vendor considers any part of its bid to be exempt from public disclosure, Vendor must so indicate by specifically identifying the exempt information, identifying the exemption that applies, providing a detailed justification for the exemption, segregating the exempt information from the general bid information, and submitting the exempt information as part of its bid but in a segregated and clearly identifiable format. Failure to comply with the foregoing requirements will result in public disclosure of the Vendor's bid without further notice. A Vendor's act of marking all or nearly all of its bid as exempt is not sufficient to avoid disclosure and WILL NOT BE HONORED. Vendor's act of marking a bid or any part thereof as "confidential" or "proprietary" is not sufficient to avoid disclosure and WILL NOT BE HONORED. A legend or other statement indicating that all or substantially all of the bid is exempt from disclosure is not sufficient to avoid disclosure and WILL NOT BE HONORED. Additionally, pricing or cost information will not be considered exempt from disclosure and requests to withhold publication of pricing or cost information WILL NOT BE HONORED.

Vendor will be required to defend any claimed exemption for nondisclosure in the event of an administrative or judicial challenge to the State's nondisclosure. Vendor must indemnify the State for any costs incurred related to any exemptions claimed by Vendor. Any questions regarding the applicability of the various public records laws should be addressed to your own legal counsel prior to bid submission.

**31. LICENSING:** In accordance with West Virginia Code of State Rules §148-1-6.1.7, Vendor must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agency or political subdivision. Upon request, the Vendor must provide all necessary releases to obtain information to enable the Purchasing Division Director or the Agency to verify that the Vendor is licensed and in good standing with the above entities.

**32. ANTITRUST:** In submitting a bid to, signing a contract with, or accepting a Award Document from any agency of the State of West Virginia, the Vendor agrees to convey, sell, assign, or transfer to the State of West Virginia all rights, title, and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to Vendor.

**33. VENDOR CERTIFICATIONS:** By signing its bid or entering into this Contract, Vendor certifies (1) that its bid or offer was made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, person or entity submitting a bid or offer for the same material, supplies, equipment or services; (2) that its bid or offer is in all respects fair and without collusion or fraud; (3) that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; and (4) that it has reviewed this Solicitation in its entirety; understands the requirements, terms and conditions, and other information contained herein. Vendor's signature on its bid or offer also affirms that neither it nor its representatives have any interest, nor shall acquire any interest, direct or indirect, which would compromise the performance of its services hereunder. Any such interests shall be promptly presented in detail to the Agency. The individual signing this bid or offer on behalf of Vendor certifies that he or she is authorized by the Vendor to execute this bid or offer or any documents related thereto on Vendor's behalf; that he or she is authorized to bind the Vendor in a contractual relationship; and that, to the best of his or her knowledge, the Vendor has properly registered with any State agency that may require registration.

**34. PURCHASING CARD ACCEPTANCE:** The State of West Virginia currently utilizes a Purchasing Card program, administered under contract by a banking institution, to process payment for goods and services. The Vendor must accept the State of West Virginia's Purchasing Card for payment of all orders under this Contract unless the box below is checked.

Vendor is not required to accept the State of West Virginia's Purchasing Card as payment for all goods and services.

**35. VENDOR RELATIONSHIP:** The relationship of the Vendor to the State shall be that of an independent contractor and no principal-agent relationship or employer-employee relationship is contemplated or created by this Contract. The Vendor as an independent contractor is solely liable for the acts and omissions of its employees and agents. Vendor shall be responsible for selecting, supervising, and compensating any and all individuals employed pursuant to the terms of this Solicitation and resulting contract. Neither the Vendor, nor any employees or subcontractors of the Vendor, shall be deemed to be employees of the State for any purpose whatsoever. Vendor shall be exclusively responsible for payment of employees and contractors for all wages and salaries, taxes, withholding payments, penalties, fees, fringe benefits, professional liability insurance premiums, contributions to insurance and pension, or other deferred compensation plans, including but

not limited to, Workers' Compensation and Social Security obligations, licensing fees, etc. and the filing of all necessary documents, forms, and returns pertinent to all of the foregoing. Vendor shall hold harmless the State, and shall provide the State and Agency with a defense against any and all claims including, but not limited to, the foregoing payments, withholdings, contributions, taxes, Social Security taxes, and employer income tax returns.

- 36. INDEMNIFICATION:** The Vendor agrees to indemnify, defend, and hold harmless the State and the Agency, their officers, and employees from and against: (1) Any claims or losses for services rendered by any subcontractor, person, or firm performing or supplying services, materials, or supplies in connection with the performance of the Contract; (2) Any claims or losses resulting to any person or entity injured or damaged by the Vendor, its officers, employees, or subcontractors by the publication, translation, reproduction, delivery, performance, use, or disposition of any data used under the Contract in a manner not authorized by the Contract, or by Federal or State statutes or regulations; and (3) Any failure of the Vendor, its officers, employees, or subcontractors to observe State and Federal laws including, but not limited to, labor and wage and hour laws.
- 37. PURCHASING AFFIDAVIT:** In accordance with West Virginia Code § 5A-3-10a, all Vendors are required to sign, notarize, and submit the Purchasing Affidavit stating that neither the Vendor nor a related party owe a debt to the State in excess of \$1,000. The affidavit must be submitted prior to award, but should be submitted with the Vendor's bid. A copy of the Purchasing Affidavit is included herewith.
- 38. ADDITIONAL AGENCY AND LOCAL GOVERNMENT USE:** This Contract may be utilized by and extends to other agencies, spending units, and political subdivisions of the State of West Virginia; county, municipal, and other local government bodies; and school districts ("Other Government Entities"). This Contract shall be extended to the aforementioned Other Government Entities on the same prices, terms, and conditions as those offered and agreed to in this Contract. If the Vendor does not wish to extend the prices, terms, and conditions of its bid and subsequent contract to the Other Government Entities, the Vendor must clearly indicate such refusal in its bid. A refusal to extend this Contract to the Other Government Entities shall not impact or influence the award of this Contract in any manner.
- 39. CONFLICT OF INTEREST:** Vendor, its officers or members or employees, shall not presently have or acquire an interest, direct or indirect, which would conflict with or compromise the performance of its obligations hereunder. Vendor shall periodically inquire of its officers, members and employees to ensure that a conflict of interest does not arise. Any conflict of interest discovered shall be promptly presented in detail to the Agency.
- 40. REPORTS:** Vendor shall provide the Agency and/or the Purchasing Division with the following reports identified by a checked box below:
- Such reports as the Agency and/or the Purchasing Division may request. Requested reports may include, but are not limited to, quantities purchased, agencies utilizing the contract, total contract expenditures by agency, etc.

- Quarterly reports detailing the total quantity of purchases in units and dollars, along with a listing of purchases by agency. Quarterly reports should be delivered to the Purchasing Division via email at [purchasing.requisitions@wv.gov](mailto:purchasing.requisitions@wv.gov).

**41. BACKGROUND CHECK:** In accordance with W. Va. Code § 15-2D-3, the Director of the Division of Protective Services shall require any service provider whose employees are regularly employed on the grounds or in the buildings of the Capitol complex or who have access to sensitive or critical information to submit to a fingerprint-based state and federal background inquiry through the state repository. The service provider is responsible for any costs associated with the fingerprint-based state and federal background inquiry.

After the contract for such services has been approved, but before any such employees are permitted to be on the grounds or in the buildings of the Capitol complex or have access to sensitive or critical information, the service provider shall submit a list of all persons who will be physically present and working at the Capitol complex to the Director of the Division of Protective Services for purposes of verifying compliance with this provision.

The State reserves the right to prohibit a service provider's employees from accessing sensitive or critical information or to be present at the Capitol complex based upon results addressed from a criminal background check.

Service providers should contact the West Virginia Division of Protective Services by phone at (304) 558-9911 for more information.

**42. PREFERENCE FOR USE OF DOMESTIC STEEL PRODUCTS:** Except when authorized by the Director of the Purchasing Division pursuant to W. Va. Code § 5A-3-56, no contractor may use or supply steel products for a State Contract Project other than those steel products made in the United States. A contractor who uses steel products in violation of this section may be subject to civil penalties pursuant to W. Va. Code § 5A-3-56. As used in this section:

- a. "State Contract Project" means any erection or construction of, or any addition to, alteration of or other improvement to any building or structure, including, but not limited to, roads or highways, or the installation of any heating or cooling or ventilating plants or other equipment, or the supply of and materials for such projects, pursuant to a contract with the State of West Virginia for which bids were solicited on or after June 6, 2001.
- b. "Steel Products" means products rolled, formed, shaped, drawn, extruded, forged, cast, fabricated or otherwise similarly processed, or processed by a combination of two or more or such operations, from steel made by the open heath, basic oxygen, electric furnace, Bessemer or other steel making process. The Purchasing Division Director may, in writing, authorize the use of foreign steel products if:
- c. The cost for each contract item used does not exceed one tenth of one percent (.1%) of the total contract cost or two thousand five hundred dollars (\$2,500.00), whichever is greater.

For the purposes of this section, the cost is the value of the steel product as delivered to the project; or

- d. The Director of the Purchasing Division determines that specified steel materials are not produced in the United States in sufficient quantity or otherwise are not reasonably available to meet contract requirements.

**43. PREFERENCE FOR USE OF DOMESTIC ALUMINUM, GLASS, AND STEEL:** In Accordance with W. Va. Code § 5-19-1 et seq., and W. Va. CSR § 148-10-1 et seq., for every contract or subcontract, subject to the limitations contained herein, for the construction, reconstruction, alteration, repair, improvement or maintenance of public works or for the purchase of any item of machinery or equipment to be used at sites of public works, only domestic aluminum, glass or steel products shall be supplied unless the spending officer determines, in writing, after the receipt of offers or bids, (1) that the cost of domestic aluminum, glass or steel products is unreasonable or inconsistent with the public interest of the State of West Virginia, (2) that domestic aluminum, glass or steel products are not produced in sufficient quantities to meet the contract requirements, or (3) the available domestic aluminum, glass, or steel do not meet the contract specifications. This provision only applies to public works contracts awarded in an amount more than fifty thousand dollars (\$50,000) or public works contracts that require more than ten thousand pounds of steel products.

The cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than twenty percent (20%) of the bid or offered price for foreign made aluminum, glass, or steel products. If the domestic aluminum, glass or steel products to be supplied or produced in a "substantial labor surplus area", as defined by the United States Department of Labor, the cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than thirty percent (30%) of the bid or offered price for foreign made aluminum, glass, or steel products.

This preference shall be applied to an item of machinery or equipment, as indicated above, when the item is a single unit of equipment or machinery manufactured primarily of aluminum, glass or steel, is part of a public works contract and has the sole purpose or of being a permanent part of a single public works project. This provision does not apply to equipment or machinery purchased by a spending unit for use by that spending unit and not as part of a single public works project.

All bids and offers including domestic aluminum, glass or steel products that exceed bid or offer prices including foreign aluminum, glass or steel products after application of the preferences provided in this provision may be reduced to a price equal to or lower than the lowest bid or offer price for foreign aluminum, glass or steel products plus the applicable preference. If the reduced bid or offer prices are made in writing and supersede the prior bid or offer prices, all bids or offers, including the reduced bid or offer prices, will be reevaluated in accordance with this rule.



**CERTIFICATION AND SIGNATURE PAGE**

By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

Ecolab Inc.

\_\_\_\_\_  
(Company)



Bruce Kottom, Sr. Government Sales Manager

\_\_\_\_\_  
(Authorized Signature) (Representative Name, Title)

ph: (651) 250 2892      fax: (651) 306 - 5429      05/08/2015

\_\_\_\_\_  
(Phone Number) (Fax Number) (Date)

## INSTRUCTIONS TO VENDORS SUBMITTING BIDS

1. **REVIEW DOCUMENTS THOROUGHLY:** The attached documents contain a solicitation for bids. Please read these instructions and all documents attached in their entirety. These instructions provide critical information about requirements that if overlooked could lead to disqualification of a Vendor's bid. All bids must be submitted in accordance with the provisions contained in these instructions and the Solicitation. Failure to do so may result in disqualification of Vendor's bid.
2. **MANDATORY TERMS:** The Solicitation may contain mandatory provisions identified by the use of the words "must," "will," and "shall." Failure to comply with a mandatory term in the Solicitation will result in bid disqualification.
3. **PREBID MEETING:** The item identified below shall apply to this Solicitation.

A pre-bid meeting will not be held prior to bid opening.

A NON-MANDATORY PRE-BID meeting will be held at the following place and time:

A MANDATORY PRE-BID meeting will be held at the following place and time:

All Vendors submitting a bid must attend the mandatory pre-bid meeting. Failure to attend the mandatory pre-bid meeting shall result in disqualification of the Vendor's bid. No one person attending the pre-bid meeting may represent more than one Vendor.

An attendance sheet provided at the pre-bid meeting shall serve as the official document verifying attendance. The State will not accept any other form of proof or documentation to verify attendance. Any person attending the pre-bid meeting on behalf of a Vendor must list on the attendance sheet his or her name and the name of the Vendor he or she is representing. Additionally, the person attending the pre-bid meeting should include the Vendor's E-Mail address, phone number, and Fax number on the attendance sheet. It is the Vendor's responsibility to locate the attendance sheet and provide the required information. Failure to complete the attendance sheet as required may result in disqualification of Vendor's bid.

All Vendors should arrive prior to the starting time for the pre-bid. Vendors who arrive after the starting time but prior to the end of the pre-bid will be permitted to sign in, but are charged with knowing all matters discussed at the pre-bid.

Questions submitted at least five business days prior to a scheduled pre-bid will be discussed at the pre-bid meeting if possible. Any discussions or answers to questions at the pre-bid meeting are preliminary in nature and are non-binding. Official and binding answers to questions will be published in a written addendum to the Solicitation prior to bid opening.

4. **VENDOR QUESTION DEADLINE:** Vendors may submit questions relating to this Solicitation to the Purchasing Division. Questions must be submitted in writing. All questions must be submitted on or before the date listed below and to the address listed below in order to be considered. A written response will be published in a Solicitation addendum if a response is possible and appropriate. Non-written discussions, conversations, or questions and answers regarding this Solicitation are preliminary in nature and are non-binding. Submitted e-mails should have solicitation number in the subject line.

Question Submission Deadline: 05/01/2015 5:00PM

Submit Questions to: Laura Hooper, Buyer

2019 Washington Street, East

Charleston, WV 25305

Fax: (304) 558-4115 (Vendors should not use this fax number for bid submission)

Email: [Laura.E.Hooper@wv.gov](mailto:Laura.E.Hooper@wv.gov)

5. **VERBAL COMMUNICATION:** Any verbal communication between the Vendor and any State personnel is not binding, including verbal communication at the mandatory pre-bid conference. Only information issued in writing and added to the Solicitation by an official written addendum by the Purchasing Division is binding.
6. **BID SUBMISSION:** All bids must be submitted electronically through wvOASIS or signed and delivered by the Vendor to the Purchasing Division at the address listed below on or before the date and time of the bid opening. Any bid received by the Purchasing Division staff is considered to be in the possession of the Purchasing Division and will not be returned for any reason. The Purchasing Division will not accept bids, modification of bids, or addendum acknowledgment forms via e-mail. Acceptable delivery methods include electronic submission via wvOASIS, hand delivery, delivery by courier, or facsimile. The bid delivery address is:

Department of Administration, Purchasing Division

2019 Washington Street East

Charleston, WV 25305-0130

A bid that is not submitted electronically through wvOASIS should contain the information listed below on the face of the envelope or the bid may be rejected by the Purchasing Division.:

SEALED BID:  
BUYER:  
SOLICITATION NO.:  
BID OPENING DATE:  
BID OPENING TIME:  
FAX NUMBER:

In the event that Vendor is responding to a request for proposal, and chooses to respond in a manner other than by electronic submission through wvOASIS, the Vendor shall submit one original technical and one original cost proposal plus *N/A* convenience copies of each to the Purchasing Division at the address shown above. Additionally, if Vendor does not submit its bid through wvOASIS, the Vendor should identify the bid type as either a technical or cost proposal on the face of each bid envelope submitted in response to a request for proposal as follows:

BID TYPE: (This only applies to CRFP)

Technical

Cost

7. **BID OPENING:** Bids submitted in response to this Solicitation will be opened at the location identified below on the date and time listed below. Delivery of a bid after the bid opening date and time will result in bid disqualification. For purposes of this Solicitation, a bid is considered delivered when confirmation of delivery is provided by wvOASIS (in the case of electronic submission) or when the bid is time stamped by the official Purchasing Division time clock (in the case of hand delivery).

05/12/2015 1:30PM

Bid Opening Date and Time:

Bid Opening Location: Department of Administration, Purchasing Division

2019 Washington Street East

Charleston, WV 25305-0130

8. **ADDENDUM ACKNOWLEDGEMENT:** Changes or revisions to this Solicitation will be made by an official written addendum issued by the Purchasing Division. Vendor should acknowledge receipt of all addenda issued with this Solicitation by completing an Addendum Acknowledgment Form, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

9. **BID FORMATTING:** Vendor should type or electronically enter the information onto its bid to prevent errors in the evaluation. Failure to type or electronically enter the information may result in bid disqualification.
10. **ALTERNATES:** Any model, brand, or specification listed in this Solicitation establishes the acceptable level of quality only and is not intended to reflect a preference for, or in any way favor, a particular brand or vendor. Vendors may bid alternates to a listed model or brand provided that the alternate is at least equal to the model or brand and complies with the required specifications. The equality of any alternate being bid shall be determined by the State at its sole discretion. Any Vendor bidding an alternate model or brand should clearly identify the alternate items in its bid and should include manufacturer's specifications, industry literature, and/or any other relevant documentation demonstrating the equality of the alternate items. Failure to provide information for alternate items may be grounds for rejection of a Vendor's bid.
11. **EXCEPTIONS AND CLARIFICATIONS:** The Solicitation contains the specifications that shall form the basis of a contractual agreement. Vendor shall clearly mark any exceptions, clarifications, or other proposed modifications in its bid. Exceptions to, clarifications of, or modifications of a requirement or term and condition of the Solicitation may result in bid disqualification.
12. **COMMUNICATION LIMITATIONS:** In accordance with West Virginia Code of State Rules §148-1-6.6, communication with the State of West Virginia or any of its employees regarding this Solicitation during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited without prior Purchasing Division approval. Purchasing Division approval for such communication is implied for all agency delegated and exempt purchases.
13. **REGISTRATION:** Prior to Contract award, the apparent successful Vendor must be properly registered with the West Virginia Purchasing Division and must have paid the \$125 fee, if applicable.
14. **UNIT PRICE:** Unit prices shall prevail in cases of a discrepancy in the Vendor's bid.
15. **PREFERENCE:** Vendor Preference may only be granted upon written request and only in accordance with the West Virginia Code § 5A-3-37 and the West Virginia Code of State Rules. A Vendor Preference Certificate form has been attached hereto to allow Vendor to apply for the preference. Vendor's failure to submit the Vendor Preference Certificate form with its bid will result in denial of Vendor Preference. Vendor Preference does not apply to construction projects.
16. **SMALL, WOMEN-OWNED, OR MINORITY-OWNED BUSINESSES:** For any solicitations publicly advertised for bid, in accordance with West Virginia Code §5A-3-37(a)(7) and W. Va. CSR § 148-22-9, any non-resident vendor certified as a small, women-owned, or minority-owned business under W. Va. CSR § 148-22-9 shall be provided the

same preference made available to any resident vendor. Any non-resident small, women-owned, or minority-owned business must identify itself as such in writing, must submit that writing to the Purchasing Division with its bid, and must be properly certified under W. Va. CSR § 148-22-9 prior to contract award to receive the preferences made available to resident vendors. Preference for a non-resident small, women-owned, or minority owned business shall be applied in accordance with W. Va. CSR § 148-22-9.

**17. WAIVER OF MINOR IRREGULARITIES:** The Director reserves the right to waive minor irregularities in bids or specifications in accordance with West Virginia Code of State Rules § 148-1-4.6.

**18. ELECTRONIC FILE ACCESS RESTRICTIONS:** Vendor must ensure that its submission in wvOASIS can be accessed by the Purchasing Division staff immediately upon bid opening. The Purchasing Division will consider any file that cannot be immediately opened and/or viewed at the time of the bid opening (such as, encrypted files, password protected files, or incompatible files) to be blank or incomplete as context requires, and are therefore unacceptable. A vendor will not be permitted to unencrypt files, remove password protections, or resubmit documents after bid opening if those documents are required with the bid.

**SOLICITATION NUMBER: DJS1500000011**

**Addendum Number: 1**

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The purpose of this addendum is to modify the solicitation identified as ("Solicitation") to reflect the change(s) identified and described below.

**Applicable Addendum Category:**

- Modify bid opening date and time
- Modify specifications of product or service being sought
- Attachment of vendor questions and responses
- Attachment of pre-bid sign-in sheet
- Correction of error
- Other

**Description of Modification to Solicitation:**

ADDENDUM #1

TO CORRECT AN ERROR IN GENERAL TERMS AND CONDITIONS. ATTACHED, PLEASE FIND THE REVISED GENERAL TERMS AND CONDITIONS.

NO FURTHER CHANGES.

**Additional Documentation:** Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

**Terms and Conditions:**

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

# ATTACHMENT A



## GENERAL TERMS AND CONDITIONS:

1. **CONTRACTUAL AGREEMENT:** Issuance of a Award Document signed by the Purchasing Division Director, or his designee, and approved as to form by the Attorney General's office constitutes acceptance of this Contract made by and between the State of West Virginia and the Vendor. Vendor's signature on its bid signifies Vendor's agreement to be bound by and accept the terms and conditions contained in this Contract.
  
2. **DEFINITIONS:** As used in this Solicitation/Contract, the following terms shall have the meanings attributed to them below. Additional definitions may be found in the specifications included with this Solicitation/Contract.
  - 2.1. "Agency" or "Agencies" means the agency, board, commission, or other entity of the State of West Virginia that is identified on the first page of the Solicitation or any other public entity seeking to procure goods or services under this Contract.
  
  - 2.2. "Contract" means the binding agreement that is entered into between the State and the Vendor to provide the goods or services requested in the Solicitation.
  
  - 2.3. "Director" means the Director of the West Virginia Department of Administration, Purchasing Division.
  
  - 2.4. "Purchasing Division" means the West Virginia Department of Administration, Purchasing Division.
  
  - 2.5. "Award Document" means the document signed by the Agency and the Purchasing Division, and approved as to form by the Attorney General, that identifies the Vendor as the contract holder.
  
  - 2.6. "Solicitation" means the official notice of an opportunity to supply the State with goods or services that is published by the Purchasing Division.
  
  - 2.7. "State" means the State of West Virginia and/or any of its agencies, commissions, boards, etc. as context requires.
  
  - 2.8. "Vendor" or "Vendors" means any entity submitting a bid in response to the Solicitation, the entity that has been selected as the lowest responsible bidder, or the entity that has been awarded the Contract as context requires.

3. **CONTRACT TERM; RENEWAL; EXTENSION:** The term of this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below:

**Term Contract**

**Initial Contract Term:** This Contract becomes effective on award and extends for a period of one (1) year(s).

**Renewal Term:** This Contract may be renewed upon the mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). Any request for renewal should be submitted to the Purchasing Division thirty (30) days prior to the expiration date of the initial contract term or appropriate renewal term. A Contract renewal shall be in accordance with the terms and conditions of the original contract. Renewal of this Contract is limited to three (3) successive one (1) year periods or multiple renewal periods of less than one year, provided that the multiple renewal periods do not exceed 36 months in total. Automatic renewal of this Contract is prohibited. Notwithstanding the foregoing, Purchasing Division approval is not required on agency delegated or exempt purchases. Attorney General approval may be required for vendor terms and conditions.

**Delivery Order Limitations:** In the event that this contract permits delivery orders, a delivery order may only be issued during the time this Contract is in effect. Any delivery order issued within one year of the expiration of this Contract shall be effective for one year from the date the delivery order is issued. No delivery order may be extended beyond one year after this Contract has expired.

**Fixed Period Contract:** This Contract becomes effective upon Vendor's receipt of the notice to proceed and must be completed within \_\_\_\_\_ days.

**Fixed Period Contract with Renewals:** This Contract becomes effective upon Vendor's receipt of the notice to proceed and part of the Contract more fully described in the attached specifications must be completed within \_\_\_\_\_ days. Upon completion, the vendor agrees that maintenance, monitoring, or warranty services will be provided for one year thereafter with an additional \_\_\_\_\_ successive one year renewal periods or multiple renewal periods of less than one year provided that the multiple renewal periods do not exceed \_\_\_\_\_ months in total. Automatic renewal of this Contract is prohibited.

**One Time Purchase:** The term of this Contract shall run from the issuance of the Award Document until all of the goods contracted for have been delivered, but in no event will this Contract extend for more than one fiscal year.

**Other:** See attached.

4. **NOTICE TO PROCEED:** Vendor shall begin performance of this Contract immediately upon receiving notice to proceed unless otherwise instructed by the Agency. Unless otherwise specified, the fully executed Award Document will be considered notice to proceed.
5. **QUANTITIES:** The quantities required under this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below.
  - Open End Contract:** Quantities listed in this Solicitation are approximations only, based on estimates supplied by the Agency. It is understood and agreed that the Contract shall cover the quantities actually ordered for delivery during the term of the Contract, whether more or less than the quantities shown.
  - Service:** The scope of the service to be provided will be more clearly defined in the specifications included herewith.
  - Combined Service and Goods:** The scope of the service and deliverable goods to be provided will be more clearly defined in the specifications included herewith.
  - One Time Purchase:** This Contract is for the purchase of a set quantity of goods that are identified in the specifications included herewith. Once those items have been delivered, no additional goods may be procured under this Contract without an appropriate change order approved by the Vendor, Agency, Purchasing Division, and Attorney General's office.
6. **PRICING:** The pricing set forth herein is firm for the life of the Contract, unless specified elsewhere within this Solicitation/Contract by the State. A Vendor's inclusion of price adjustment provisions in its bid, without an express authorization from the State in the Solicitation to do so, may result in bid disqualification.
7. **EMERGENCY PURCHASES:** The Purchasing Division Director may authorize the Agency to purchase goods or services in the open market that Vendor would otherwise provide under this Contract if those goods or services are for immediate or expedited delivery in an emergency. Emergencies shall include, but are not limited to, delays in transportation or an unanticipated increase in the volume of work. An emergency purchase in the open market, approved by the Purchasing Division Director, shall not constitute a breach of this Contract and shall not entitle the Vendor to any form of compensation or damages. This provision does not excuse the State from fulfilling its obligations under a One Time Purchase contract.
8. **REQUIRED DOCUMENTS:** All of the items checked below must be provided to the Purchasing Division by the Vendor as specified below.

**BID BOND:** All Vendors shall furnish a bid bond in the amount of five percent (5%) of the total amount of the bid protecting the State of West Virginia. The bid bond must be submitted with the bid.

**PERFORMANCE BOND:** The apparent successful Vendor shall provide a performance bond in the amount of \_\_\_\_\_. The performance bond must be received by the Purchasing Division prior to Contract award. On construction contracts, the performance bond must be 100% of the Contract value.

**LABOR/MATERIAL PAYMENT BOND:** The apparent successful Vendor shall provide a labor/material payment bond in the amount of 100% of the Contract value. The labor/material payment bond must be delivered to the Purchasing Division prior to Contract award.

In lieu of the Bid Bond, Performance Bond, and Labor/Material Payment Bond, the Vendor may provide certified checks, cashier's checks, or irrevocable letters of credit. Any certified check, cashier's check, or irrevocable letter of credit provided in lieu of a bond must be of the same amount and delivered on the same schedule as the bond it replaces. A letter of credit submitted in lieu of a performance and labor/material payment bond will only be allowed for projects under \$100,000. Personal or business checks are not acceptable.

**MAINTENANCE BOND:** The apparent successful Vendor shall provide a two (2) year maintenance bond covering the roofing system. The maintenance bond must be issued and delivered to the Purchasing Division prior to Contract award.

**INSURANCE:** The apparent successful Vendor shall furnish proof of the following insurance prior to Contract award and shall list the state as a certificate holder:

**Commercial General Liability Insurance:** In the amount of \_\_\_\_\_ or more.

**Builders Risk Insurance:** In an amount equal to 100% of the amount of the Contract.

The apparent successful Vendor shall also furnish proof of any additional insurance requirements contained in the specifications prior to Contract award regardless of whether or not that insurance requirement is listed above.

**LICENSE(S) / CERTIFICATIONS / PERMITS:** In addition to anything required under the Section entitled Licensing, of the General Terms and Conditions, the apparent successful Vendor shall furnish proof of the following licenses, certifications, and/or permits prior to Contract award, in a form acceptable to the Purchasing Division.

The apparent successful Vendor shall also furnish proof of any additional licenses or certifications contained in the specifications prior to Contract award regardless of whether or not that requirement is listed above.

**9. WORKERS' COMPENSATION INSURANCE:** The apparent successful Vendor shall comply with laws relating to workers compensation, shall maintain workers' compensation insurance when required, and shall furnish proof of workers' compensation insurance upon request.

**10. LITIGATION BOND:** The Director reserves the right to require any Vendor that files a protest of an award to submit a litigation bond in the amount equal to one percent of the lowest bid submitted or \$5,000, whichever is greater. The entire amount of the bond shall be forfeited if the hearing officer determines that the protest was filed for frivolous or improper purpose, including but not limited to, the purpose of harassing, causing unnecessary delay, or needless expense for the Agency. All litigation bonds shall be made payable to the Purchasing Division. In lieu of a bond, the protester may submit a cashier's check or certified check payable to the Purchasing Division. Cashier's or certified checks will be deposited with and held by the State Treasurer's office. If it is determined that the protest has not been filed for frivolous or improper purpose, the bond or deposit shall be returned in its entirety.

**11. LIQUIDATED DAMAGES:** Vendor shall pay liquidated damages in the amount of \_\_\_\_\_  
for \_\_\_\_\_.

This clause shall in no way be considered exclusive and shall not limit the State or Agency's right to pursue any other available remedy.

12. **ACCEPTANCE/REJECTION:** The State may accept or reject any bid in whole, or in part. Vendor's signature on its bid signifies acceptance of the terms and conditions contained in the Solicitation and Vendor agrees to be bound by the terms of the Contract, as reflected in the Award Document, upon receipt.
13. **FUNDING:** This Contract shall continue for the term stated herein, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise made available, this Contract becomes void and of no effect beginning on July 1 of the fiscal year for which funding has not been appropriated or otherwise made available.
14. **PAYMENT:** Payment in advance is prohibited under this Contract. Payment may only be made after the delivery and acceptance of goods or services. The Vendor shall submit invoices, in arrears.
15. **TAXES:** The Vendor shall pay any applicable sales, use, personal property or any other taxes arising out of this Contract and the transactions contemplated thereby. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
16. **CANCELLATION:** The Purchasing Division Director reserves the right to cancel this Contract immediately upon written notice to the vendor if the materials or workmanship supplied do not conform to the specifications contained in the Contract. The Purchasing Division Director may also cancel any purchase or Contract upon 30 days written notice to the Vendor in accordance with West Virginia Code of State Rules § 148-1-7.16.2.
17. **TIME:** Time is of the essence with regard to all matters of time and performance in this Contract.
18. **APPLICABLE LAW:** This Contract is governed by and interpreted under West Virginia law without giving effect to its choice of law principles. Any information provided in specification manuals, or any other source, verbal or written, which contradicts or violates the West Virginia Constitution, West Virginia Code or West Virginia Code of State Rules is void and of no effect.
19. **COMPLIANCE:** Vendor shall comply with all applicable federal, state, and local laws, regulations and ordinances. By submitting a bid, Vendor acknowledges that it has reviewed, understands, and will comply with all applicable law.
20. **PREVAILING WAGE:** On any contract for the construction of a public improvement whose cost at the time the contract is awarded will be paid with public money in an amount greater than \$500,000. Vendor and any subcontractors utilized by Vendor shall pay a rate or rates of wages which shall not be less than the fair minimum rate or rates of wages (prevailing wage), as established under West Virginia Code §§ 21-5A-1 et seq. Vendor shall

be responsible for ensuring compliance with prevailing wage requirements and determining when prevailing wage requirements are applicable.

**21. ARBITRATION:** Any references made to arbitration contained in this Contract, Vendor's bid, or in any American Institute of Architects documents pertaining to this Contract are hereby deleted, void, and of no effect.

**22. MODIFICATIONS:** This writing is the parties' final expression of intent. Notwithstanding anything contained in this Contract to the contrary, no modification of this Contract shall be binding without mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). No Change shall be implemented by the Vendor until such time as the Vendor receives an approved written change order from the Purchasing Division.

**23. WAIVER:** The failure of either party to insist upon a strict performance of any of the terms or provision of this Contract, or to exercise any option, right, or remedy herein contained, shall not be construed as a waiver or a relinquishment for the future of such term, provision, option, right, or remedy, but the same shall continue in full force and effect. Any waiver must be expressly stated in writing and signed by the waiving party.

**24. SUBSEQUENT FORMS:** The terms and conditions contained in this Contract shall supersede any and all subsequent terms and conditions which may appear on any form documents submitted by Vendor to the Agency or Purchasing Division such as price lists, order forms, invoices, sales agreements, or maintenance agreements, and includes internet websites or other electronic documents. Acceptance or use of Vendor's forms does not constitute acceptance of the terms and conditions contained thereon.

**25. ASSIGNMENT:** Neither this Contract nor any monies due, or to become due hereunder, may be assigned by the Vendor without the express written consent of the Agency, the Purchasing Division, the Attorney General's office (as to form only), and any other government agency or office that may be required to approve such assignments. Notwithstanding the foregoing, Purchasing Division approval may or may not be required on certain agency delegated or exempt purchases.

**26. WARRANTY:** The Vendor expressly warrants that the goods and/or services covered by this Contract will: (a) conform to the specifications, drawings, samples, or other description furnished or specified by the Agency; (b) be merchantable and fit for the purpose intended; and (c) be free from defect in material and workmanship.

**27. STATE EMPLOYEES:** State employees are not permitted to utilize this Contract for personal use and the Vendor is prohibited from permitting or facilitating the same.

**28. BANKRUPTCY:** In the event the Vendor files for bankruptcy protection, the State of West Virginia may deem this Contract null and void, and terminate this Contract without notice.

**29. CONFIDENTIALITY:** The Vendor agrees that it will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the Agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the Agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/default.html>.

**30. DISCLOSURE:** Vendor's response to the Solicitation and the resulting Contract are considered public documents and will be disclosed to the public in accordance with the laws, rules, and policies governing the West Virginia Purchasing Division. Those laws include, but are not limited to, the Freedom of Information Act found in West Virginia Code §§ 29B-1-1 et seq. and the competitive bidding laws found West Virginia Code §§ 5A-3-1 et seq., 5-22-1 et seq., and 5G-1-1 et seq.

If a Vendor considers any part of its bid to be exempt from public disclosure, Vendor must so indicate by specifically identifying the exempt information, identifying the exemption that applies, providing a detailed justification for the exemption, segregating the exempt information from the general bid information, and submitting the exempt information as part of its bid but in a segregated and clearly identifiable format. Failure to comply with the foregoing requirements will result in public disclosure of the Vendor's bid without further notice. A Vendor's act of marking all or nearly all of its bid as exempt is not sufficient to avoid disclosure and WILL NOT BE HONORED. Vendor's act of marking a bid or any part thereof as "confidential" or "proprietary" is not sufficient to avoid disclosure and WILL NOT BE HONORED. A legend or other statement indicating that all or substantially all of the bid is exempt from disclosure is not sufficient to avoid disclosure and WILL NOT BE HONORED. Additionally, pricing or cost information will not be considered exempt from disclosure and requests to withhold publication of pricing or cost information WILL NOT BE HONORED.

Vendor will be required to defend any claimed exemption for nondisclosure in the event of an administrative or judicial challenge to the State's nondisclosure. Vendor must indemnify the State for any costs incurred related to any exemptions claimed by Vendor. Any questions regarding the applicability of the various public records laws should be addressed to your own legal counsel prior to bid submission.

**31. LICENSING:** In accordance with West Virginia Code of State Rules §148-1-6.1.7, Vendor must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agency or political subdivision. Upon request, the Vendor must provide all necessary releases to obtain information to enable the Purchasing Division Director or the Agency to verify that the Vendor is licensed and in good standing with the above entities.



**32. ANTITRUST:** In submitting a bid to, signing a contract with, or accepting a Award Document from any agency of the State of West Virginia, the Vendor agrees to convey, sell, assign, or transfer to the State of West Virginia all rights, title, and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to Vendor.

**33. VENDOR CERTIFICATIONS:** By signing its bid or entering into this Contract, Vendor certifies (1) that its bid or offer was made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, person or entity submitting a bid or offer for the same material, supplies, equipment or services; (2) that its bid or offer is in all respects fair and without collusion or fraud; (3) that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; and (4) that it has reviewed this Solicitation in its entirety; understands the requirements, terms and conditions, and other information contained herein. Vendor's signature on its bid or offer also affirms that neither it nor its representatives have any interest, nor shall acquire any interest, direct or indirect, which would compromise the performance of its services hereunder. Any such interests shall be promptly presented in detail to the Agency. The individual signing this bid or offer on behalf of Vendor certifies that he or she is authorized by the Vendor to execute this bid or offer or any documents related thereto on Vendor's behalf; that he or she is authorized to bind the Vendor in a contractual relationship; and that, to the best of his or her knowledge, the Vendor has properly registered with any State agency that may require registration.

**34. PURCHASING CARD ACCEPTANCE:** The State of West Virginia currently utilizes a Purchasing Card program, administered under contract by a banking institution, to process payment for goods and services. The Vendor must accept the State of West Virginia's Purchasing Card for payment of all orders under this Contract unless the box below is checked.

Vendor is not required to accept the State of West Virginia's Purchasing Card as payment for all goods and services.

**35. VENDOR RELATIONSHIP:** The relationship of the Vendor to the State shall be that of an independent contractor and no principal-agent relationship or employer-employee relationship is contemplated or created by this Contract. The Vendor as an independent contractor is solely liable for the acts and omissions of its employees and agents. Vendor shall be responsible for selecting, supervising, and compensating any and all individuals employed pursuant to the terms of this Solicitation and resulting contract. Neither the Vendor, nor any employees or subcontractors of the Vendor, shall be deemed to be employees of the State for any purpose whatsoever. Vendor shall be exclusively responsible for payment of employees and contractors for all wages and salaries, taxes, withholding payments, penalties, fees, fringe benefits, professional liability insurance premiums, contributions to insurance and pension, or other deferred compensation plans, including but

not limited to, Workers' Compensation and Social Security obligations, licensing fees, etc. and the filing of all necessary documents, forms, and returns pertinent to all of the foregoing. Vendor shall hold harmless the State, and shall provide the State and Agency with a defense against any and all claims including, but not limited to, the foregoing payments, withholdings, contributions, taxes, Social Security taxes, and employer income tax returns.

**36. INDEMNIFICATION:** The Vendor agrees to indemnify, defend, and hold harmless the State and the Agency, their officers, and employees from and against: (1) Any claims or losses for services rendered by any subcontractor, person, or firm performing or supplying services, materials, or supplies in connection with the performance of the Contract; (2) Any claims or losses resulting to any person or entity injured or damaged by the Vendor, its officers, employees, or subcontractors by the publication, translation, reproduction, delivery, performance, use, or disposition of any data used under the Contract in a manner not authorized by the Contract, or by Federal or State statutes or regulations; and (3) Any failure of the Vendor, its officers, employees, or subcontractors to observe State and Federal laws including, but not limited to, labor and wage and hour laws.

**37. PURCHASING AFFIDAVIT:** In accordance with West Virginia Code § 5A-3-10a, all Vendors are required to sign, notarize, and submit the Purchasing Affidavit stating that neither the Vendor nor a related party owe a debt to the State in excess of \$1,000. The affidavit must be submitted prior to award, but should be submitted with the Vendor's bid. A copy of the Purchasing Affidavit is included herewith.

**38. ADDITIONAL AGENCY AND LOCAL GOVERNMENT USE:** This Contract may be utilized by and extends to other agencies, spending units, and political subdivisions of the State of West Virginia; county, municipal, and other local government bodies; and school districts ("Other Government Entities"). This Contract shall be extended to the aforementioned Other Government Entities on the same prices, terms, and conditions as those offered and agreed to in this Contract. If the Vendor does not wish to extend the prices, terms, and conditions of its bid and subsequent contract to the Other Government Entities, the Vendor must clearly indicate such refusal in its bid. A refusal to extend this Contract to the Other Government Entities shall not impact or influence the award of this Contract in any manner.

**39. CONFLICT OF INTEREST:** Vendor, its officers or members or employees, shall not presently have or acquire an interest, direct or indirect, which would conflict with or compromise the performance of its obligations hereunder. Vendor shall periodically inquire of its officers, members and employees to ensure that a conflict of interest does not arise. Any conflict of interest discovered shall be promptly presented in detail to the Agency.

**40. REPORTS:** Vendor shall provide the Agency and/or the Purchasing Division with the following reports identified by a checked box below:

- Such reports as the Agency and/or the Purchasing Division may request. Requested reports may include, but are not limited to, quantities purchased, agencies utilizing the contract, total contract expenditures by agency, etc.

- Quarterly reports detailing the total quantity of purchases in units and dollars, along with a listing of purchases by agency. Quarterly reports should be delivered to the Purchasing Division via email at [purchasing.requisitions@wv.gov](mailto:purchasing.requisitions@wv.gov).

**41. BACKGROUND CHECK:** In accordance with W. Va. Code § 15-2D-3, the Director of the Division of Protective Services shall require any service provider whose employees are regularly employed on the grounds or in the buildings of the Capitol complex or who have access to sensitive or critical information to submit to a fingerprint-based state and federal background inquiry through the state repository. The service provider is responsible for any costs associated with the fingerprint-based state and federal background inquiry.

After the contract for such services has been approved, but before any such employees are permitted to be on the grounds or in the buildings of the Capitol complex or have access to sensitive or critical information, the service provider shall submit a list of all persons who will be physically present and working at the Capitol complex to the Director of the Division of Protective Services for purposes of verifying compliance with this provision.

The State reserves the right to prohibit a service provider's employees from accessing sensitive or critical information or to be present at the Capitol complex based upon results addressed from a criminal background check.

Service providers should contact the West Virginia Division of Protective Services by phone at (304) 558-9911 for more information.

**42. PREFERENCE FOR USE OF DOMESTIC STEEL PRODUCTS:** Except when authorized by the Director of the Purchasing Division pursuant to W. Va. Code § 5A-3-56, no contractor may use or supply steel products for a State Contract Project other than those steel products made in the United States. A contractor who uses steel products in violation of this section may be subject to civil penalties pursuant to W. Va. Code § 5A-3-56. As used in this section:

- a. "State Contract Project" means any erection or construction of, or any addition to, alteration of or other improvement to any building or structure, including, but not limited to, roads or highways, or the installation of any heating or cooling or ventilating plants or other equipment, or the supply of and materials for such projects, pursuant to a contract with the State of West Virginia for which bids were solicited on or after June 6, 2001.
- b. "Steel Products" means products rolled, formed, shaped, drawn, extruded, forged, cast, fabricated or otherwise similarly processed, or processed by a combination of two or more or such operations, from steel made by the open heath, basic oxygen, electric furnace, Bessemer or other steel making process. The Purchasing Division Director may, in writing, authorize the use of foreign steel products if:
- c. The cost for each contract item used does not exceed one tenth of one percent (.1%) of the total contract cost or two thousand five hundred dollars (\$2,500.00), whichever is greater.

For the purposes of this section, the cost is the value of the steel product as delivered to the project; or

- d. The Director of the Purchasing Division determines that specified steel materials are not produced in the United States in sufficient quantity or otherwise are not reasonably available to meet contract requirements.

**43. PREFERENCE FOR USE OF DOMESTIC ALUMINUM, GLASS, AND STEEL:** In Accordance with W. Va. Code § 5-19-1 et seq., and W. Va. CSR § 148-10-1 et seq., for every contract or subcontract, subject to the limitations contained herein, for the construction, reconstruction, alteration, repair, improvement or maintenance of public works or for the purchase of any item of machinery or equipment to be used at sites of public works, only domestic aluminum, glass or steel products shall be supplied unless the spending officer determines, in writing, after the receipt of offers or bids, (1) that the cost of domestic aluminum, glass or steel products is unreasonable or inconsistent with the public interest of the State of West Virginia, (2) that domestic aluminum, glass or steel products are not produced in sufficient quantities to meet the contract requirements, or (3) the available domestic aluminum, glass, or steel do not meet the contract specifications. This provision only applies to public works contracts awarded in an amount more than fifty thousand dollars (\$50,000) or public works contracts that require more than ten thousand pounds of steel products.

The cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than twenty percent (20%) of the bid or offered price for foreign made aluminum, glass, or steel products. If the domestic aluminum, glass or steel products to be supplied or produced in a "substantial labor surplus area", as defined by the United States Department of Labor, the cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than thirty percent (30%) of the bid or offered price for foreign made aluminum, glass, or steel products.

This preference shall be applied to an item of machinery or equipment, as indicated above, when the item is a single unit of equipment or machinery manufactured primarily of aluminum, glass or steel, is part of a public works contract and has the sole purpose or of being a permanent part of a single public works project. This provision does not apply to equipment or machinery purchased by a spending unit for use by that spending unit and not as part of a single public works project.

All bids and offers including domestic aluminum, glass or steel products that exceed bid or offer prices including foreign aluminum, glass or steel products after application of the preferences provided in this provision may be reduced to a price equal to or lower than the lowest bid or offer price for foreign aluminum, glass or steel products plus the applicable preference. If the reduced bid or offer prices are made in writing and supersede the prior bid or offer prices, all bids or offers, including the reduced bid or offer prices, will be reevaluated in accordance with this rule.

**CERTIFICATION AND SIGNATURE PAGE.**

By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

Ecolab Inc.

\_\_\_\_\_  
(Company)



Bruce Kottom, Sr. Government Sales Manager

\_\_\_\_\_  
(Authorized Signature) (Representative Name, Title)

ph: (651) 250 2892

fax: (651) 306 - 5429

05/08/2015

\_\_\_\_\_  
(Phone Number) (Fax Number) (Date)

**ADDENDUM ACKNOWLEDGEMENT FORM**  
**SOLICITATION NO.: DJS150000011**

**Instructions:** Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

**Acknowledgment:** I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

**Addendum Numbers Received:**

(Check the box next to each addendum received)

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6  |
| <input type="checkbox"/> Addendum No. 2            | <input type="checkbox"/> Addendum No. 7  |
| <input type="checkbox"/> Addendum No. 3            | <input type="checkbox"/> Addendum No. 8  |
| <input type="checkbox"/> Addendum No. 4            | <input type="checkbox"/> Addendum No. 9  |
| <input type="checkbox"/> Addendum No. 5            | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

\_\_\_\_\_  
Ecolab Inc.

Company



\_\_\_\_\_  
Bruce Kottom

Authorized Signature

\_\_\_\_\_  
05/08/2015

Date

**NOTE:** This addendum acknowledgment should be submitted with the bid to expedite document processing.  
Revised 6/8/2012

**NORTH AMERICA PLANTS (Page 4 of 4)****Texarkana Plant (N)**

3901 Terry St.  
Texarkana, TX 75501  
*Plant Manager:* Terry DeWolf

Phone: 903 832-7515

[tdewolf@nalco.com](mailto:tdewolf@nalco.com)**Tyler Plant (E)**

2319 East Erwin  
Tyler, TX 75702  
*Plant Manager:* Pat Nickelson

Phone: 903-597-2568

Cell: 903-920-9856  
[pat.nickelson@ecolab.com](mailto:pat.nickelson@ecolab.com)

**Washington****Vancouver Plant (N)**

5210 N.W. Fruit Valley Road  
Vancouver, WA 98660 - 1245  
*Plant Manager:* Brett Misener

Phone: 360-750-6510

Cell: 360-608-9943  
[bmisener@nalco.com](mailto:bmisener@nalco.com)

**West Virginia****Martinsburg Plant (E)**

942 Baker Road  
Martinsburg, WV 25405  
*Plant Manager:* Jon Gavliniski

Phone: 304-260-3500

Cell: 304-433-6513  
[jonathan.gavliniski@ecolab.com](mailto:jonathan.gavliniski@ecolab.com)

**Wyoming****Evansville Plant (N)**

4900 E. Yellowstone Hwy.  
Evansville, WY 82636  
Assistant: Maggie Boring

Phone: 307-235-6459

*Plant Manager:* Tom Tucker

Phone: ext . 233  
[mboring@nalco.com](mailto:mboring@nalco.com)  
Cell: 307-267-8250  
[ttucker@nalco.com](mailto:ttucker@nalco.com)

# Memorandum of Insurance

<b>MEMORANDUM OF INSURANCE</b>	<b>DATE</b> 16-Dec-2014
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This Memorandum is issued as a matter of information only to authorized viewers for their internal use only and confers no rights upon any viewer of this Memorandum. This Memorandum does not amend, extend or alter the coverage described below. This Memorandum may only be copied, printed and distributed within an authorized viewer and may only be used and viewed by an authorized viewer for its internal use. Any other use, duplication or distribution of this Memorandum without the consent of Marsh is prohibited. "Authorized viewer" shall mean an entity or person which is authorized by the insured named herein to access this Memorandum via <https://online.marsh.com/marshconnectpublic/marsh2/public/moi?client=3536013>. The information contained herein is as of the date referred to above. Marsh shall be under no obligation to update such information.

<b>PRODUCER</b> Marsh USA Inc. ("Marsh")	<b>COMPANIES AFFORDING COVERAGE</b> Co. A National Union Fire Ins Co of Pittsburgh PA
<b>INSURED</b> Ecolab Inc., Nalco Company, Nalco Champion 370 North Wabasha Street St. Paul Minnesota 55102 United States	Co. B Ins. Co. of the State of Pennsylvania Co. C New Hampshire Ins. Co. Co. D ACE Property & Casualty Ins Co

**COVERAGES**

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS MEMORANDUM MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE	POLICY EXPIRATION DATE	LIMITS	
					LIMITS IN USD UNLESS OTHERWISE INDICATED	
A	GENERAL	GL4267827	31-DEC-2014	31-DEC-2015	GENERAL	USD
A	LIABILITY	GL4267828 (Products)	31-DEC-2014	31-DEC-2015	AGGREGATE	5,000,000
	Commercial				PRODUCTS -	USD
	General				COMP/OP AGG	15,000,000
	Liability				PERSONAL AND	USD
	Occurrence				ADV INJURY	2,000,000
					EACH	USD
					OCCURRENCE	2,000,000
						Prem / USD
						5,000,000
						Products
					FIRE DAMAGE	USD
					(ANY ONE FIRE)	500,000
					MED EXP (ANY	
					ONE PERSON)	
A	AUTOMOBILE	CA3814998 (AOS)	31-DEC-2014	31-DEC-2015	COMBINED	USD
A	LIABILITY	CA4875657 (MA)	31-DEC-2014	31-DEC-2015	SINGLE LIMIT	5,000,000
B	Any Auto	CA3814999 (VA)	31-DEC-2014	31-DEC-2015	BODILY	
			31-DEC-2014	31-DEC-2015	INJURY (PER	
			31-DEC-2014	31-DEC-2015	PERSON)	
					BODILY	
					INJURY (PER	
					ACCIDENT)	



					PROPERTY DAMAGE	
D	EXCESS LIABILITY Umbrella Form	XOOG27423930	31-DEC-2014	31-DEC-2015	EACH OCCURENCE	USD 10,000,000
					AGGREGATE	USD 10,000,000
	GARAGE LIABILITY				AUTO ONLY (PER ACCIDENT)	
					OTHER THAN AUTO ONLY:	
					EACH ACCIDENT	
					AGGREGATE	
C	WORKERS COMPENSATION / EMPLOYERS LIABILITY THE PROPRIETOR / PARTNERS / EXECUTIVE OFFICERS ARE Included	WC011953144 (AOS) WC011953147 (MA) WC011953145 (AK,AZ,IL,KY,NC,NH,NJ,PA,UT,VA,VT) WC011953151 WI (incl Stop Gap ND,WA,WY)	31-DEC-2014	31-DEC-2015	WORKERS COMP LIMITS	Statutory
					EL EACH ACCIDENT	USD 2,000,000
					EL DISEASE - POLICY LIMIT	USD 2,000,000
					EL DISEASE - EACH EMPLOYEE	USD 2,000,000
A	Excess Workers' Compensation	XWC9883932 (OH)	31-DEC-2014	31-DEC-2015	WC Statutory Limits;	EL 1M/1M Excess of 1M SIR
C	Workers Compensation	WC011953149 (OR); WC011953148 (FL)	31-DEC-2014	31-DEC-2015	See Above	
C	Workers Compensation	WC011953146 (ME); WC011953150 (CA)	31-DEC-2014	31-DEC-2015	See Above	
The Memorandum of Insurance serves solely to list insurance policies, limits and dates of coverage. Any modifications here to are not authorized.						

<b>MEMORANDUM OF INSURANCE</b>		<b>DATE</b> 16-Dec-2014
<p>This Memorandum is issued as a matter of information only to authorized viewers for their internal use only and confers no rights upon any viewer of this Memorandum. This Memorandum does not amend, extend or alter the coverage described below. This Memorandum may only be copied, printed and distributed within an authorized viewer and may only be used and viewed by an authorized viewer for its internal use. Any other use, duplication or distribution of this Memorandum without the consent of Marsh is prohibited. "Authorized viewer" shall mean an entity or person which is authorized by the insured named herein to access this Memorandum via <a href="https://online.marsh.com/marshconnectpublic/marsh2/public/moi?client=3536013">https://online.marsh.com/marshconnectpublic/marsh2/public/moi?client=3536013</a>. The information contained herein is as of the date referred to above. Marsh shall be under no obligation to update such information.</p>		
<b>PRODUCER</b> Marsh USA Inc. ("Marsh")	<b>INSURED</b> Ecolab Inc., Nalco Company, Nalco Champion 370 North Wabasha Street St. Paul Minnesota 55102 United States	

**ADDITIONAL INFORMATION**

Any person or organization is included as additional insured on the auto liability, general liability and umbrella liability policies, where required by written contract executed prior to loss. Refer to the sections below for the applicable additional insured, waiver of subrogation, notice of cancellation and other endorsements that may apply, where required by contract. All endorsements are issued on a blanket basis without having to specifically name individual customers or others on an endorsement.

\*\*\*\*

Any person or organization is included as additional insured on the auto liability, general liability and umbrella liability policies, where required by written contract executed prior to loss. Refer to the sections below for the applicable additional insured, waiver of subrogation, notice of cancellation and other endorsements that may apply, where required by contract. All endorsements are issued on a blanket basis without having to specifically name individual customers or others on an endorsement.

\*\*\*\*

Named Insured: coverage under the policies shown above apply to Ecolab Inc., its subsidiaries, and business units including but not limited to the following:

Ecolab Inc.  
370 Wabasha St. N.  
St. Paul, MN 55103

Ecovation, Inc  
Food Safety Specialists, Inc  
GCS Services, Inc.  
Pest Elimination

Nalco Company  
1601 West Diehl Road  
Naperville, IL 60563

Nalco Crossbow Water LLC  
Nalco Fab-Tech LLC  
Nalco One Source LLC  
Nalco Industrial Outsourcing  
Quantum Technical Services, LLC  
Res-Kem LLC  
Res-Kem General Water LLC  
Nalco Cal Water LLC

Nalco Champion  
7705 Highway 90-A  
Sugar Land, TX 77478

Champion Technologies, Inc.  
Corsicana Technologies, Inc. (Corsitech)  
Fresno Energy, LLC  
Permian Mud Service, Inc.  
Texian Development, Inc.  
Tiorco, LLC

Additional Insured: Where required by written contract executed prior to loss, the certificate holder and any person

or organization are included as additional insured on the auto liability, general liability and umbrella liability policies. The following endorsements are attached to the policies shown above:

General Liability (Premises) and General Liability (Products/Completed Operations)  
Additional Insured-Where Required Under Contract or Agreement 61712 (Premises); 94954 (Products)  
Additional Insured-Vendors CG2015  
Additional Insured-Primary Insurance 74434 (Premises); 94955 (Products)

General Liability (Premises)  
Additional Insured-State of Governmental Agency or Subdivision or Political Subdivision-Permits or Authorizations CG2012  
Additional Insured-Lessor of Leased Equipment CG2028  
Additional Insured-Owners, Lessees or Contractors-Automatic Status When Requirement in Construction Agreement with You CG2033

General Liability (Products/Completed Operations)  
Additional Insured-Owners, Lessees or Contractors-Completed Operations CG2037  
Automobile Liability  
Additional Insured-Where Required Under Contract or Agreement 87950  
Lessor-Additional Insured and Loss Payee CA2001

Insurance Primary as to Certain Additional Insureds 74445

Waiver of Subrogation: Where required by written contract executed prior to loss, waiver of subrogation is granted on the auto liability, general liability, workers' compensation and umbrella liability policies. The following endorsements are attached to the policies shown above:

General Liability (Premises) and General Liability (Products/Completed Operations): Waiver of Transfer of Rights of Recovery Against Others to Us CG2404  
Automobile Liability: Waiver of Transfer of Rights of Recovery Against Others to Us 62897  
Workers' Compensation & Employers Liability: Waiver of Our Right to Recover from Others WC000313

Notice of Cancellation: The following endorsements are attached to the policies shown above:

General Liability (Premises), General Liability (Products/Completed Operations) and Automobile Liability: Limited Advice of Cancellation to Scheduled Entities 108538  
Workers' Compensation & Employers Liability: Limited Advice of Cancellation Provided Via Email to Entities Other Than the Named Insured WC990056

Pesticide or Herbicide Applicator Coverage CG2264 is attached to the general liability (premises) liability policy shown above

Blended Pollution Named Peril & Time Element is attached to the general liability (premises) policy shown above

Waiver of Governmental Immunity Endorsement CG2414 is attached to the general liability (premises) policy shown above

Alternate Employer Endorsement WC000301, WC000301A are attached to the workers' compensation policies shown above

Longshore and Harbor Workers' Compensation Act Coverage Endorsement WC000106A is attached to the workers' compensation policies shown above

Umbrella SIR of \$1M is applicable only to General or Products Liability first loss after primary limits are exhausted.

Maritime Coverage Endorsement WC000201A (Jones Act) is attached to the workers' compensation policies shown above.

Outer Continental Shelf Lands Act Coverage Endorsement WC000109B is attached to the workers' compensation policies shown above.

The insurance evidenced herein and in the referenced policies is not intended to provide coverage beyond that required by written contract, beyond the Named Insured's indemnification obligations or at law.

The Memorandum of Insurance serves solely to list insurance policies, limits and dates of coverage. Any modifications hereto are not authorized.



### **Ecolab Standard Indemnification Coverage**

With regard to third party claims, Ecolab will defend, indemnify and hold Customer harmless from and against any liability, including reasonable attorneys' fees and court costs, relating to bodily injury, death or property damage, but only to the proportionate extent that such injury, death or property damage is caused by (i) Ecolab's breach of its warranties or (ii) Ecolab's (or its employees' or agents') negligent or intentionally wrongful acts or omissions. Customer must give Ecolab prompt written notice of any claim for which Customer intends to seek recovery from Ecolab under this Agreement. If Ecolab accepts tender for indemnity hereunder, Customer may not settle, defend or litigate any claim for which Customer seeks or will seek indemnification from Ecolab without the prior written consent of Ecolab, and Ecolab will not be liable for any settlement or claim established against, or cost or expense incurred by, Customer without that prior written consent.





## Company Overview

From its founding in 1923, Ecolab’s story has been one of innovation, customer service, industry leadership and growth. Over the years, we have built upon our humble beginnings – one man transforming a simple idea into a simple product to cost-effectively clean hotel carpets – to become a global company with 40,000 employees serving more than one million customers across a range of industries in more than 160 countries. The company headquarters is located in St. Paul, Minnesota.

### What We Do at Ecolab

At Ecolab, we develop, manufacture and market commercial cleaning, sanitizing, food safety and infection prevention products and services. Our products and services touch the lives of millions of people each day. We are a partner in success with our customers – in helping to ensure the satisfaction of their customers, reducing risks to their business and protecting and enhancing their reputation. Together, we make the world cleaner, safer and healthier – protecting people and vital resources.

Many types of customers – among them restaurants, hospitals, food manufacturing plants and cruise lines – look to us to help ensure their environments are clean, safe and healthy, food is safe to serve and eat and the threat of disease is reduced.

### The Ecolab Team

At Ecolab, our aim is to be there when and wherever our customers need us – providing personalized support any time of day, any day of the year around the globe. Below is a summary of the team that provides support to our customers in the United States and globally.

	Institutional U.S.	Ecolab Global
Sales & Service Team	2,600 associates – all full-time	22,000 associates
Customer Service	24 / 7 / 365 live support – in U.S.	50 regional call centers
Technical Services	24 U.S. product & equipment experts	30 regional teams
Manufacturing	8 Ecolab-operated plants	100+ plants worldwide
R&D and Engineering	1,300 Researchers (including 500+ PhDs) 5,800+ patents 15 Regional R&D Centers	





## Unparalleled Service You Can Trust

Knowledgeable, dependable and experienced Ecolab service specialists are dedicated to ensuring your success. During regularly scheduled visits, your Ecolab Representative will carefully inspect your cleaning and sanitation systems, equipment and operation to make sure everything is running as smoothly and efficiently as possible.

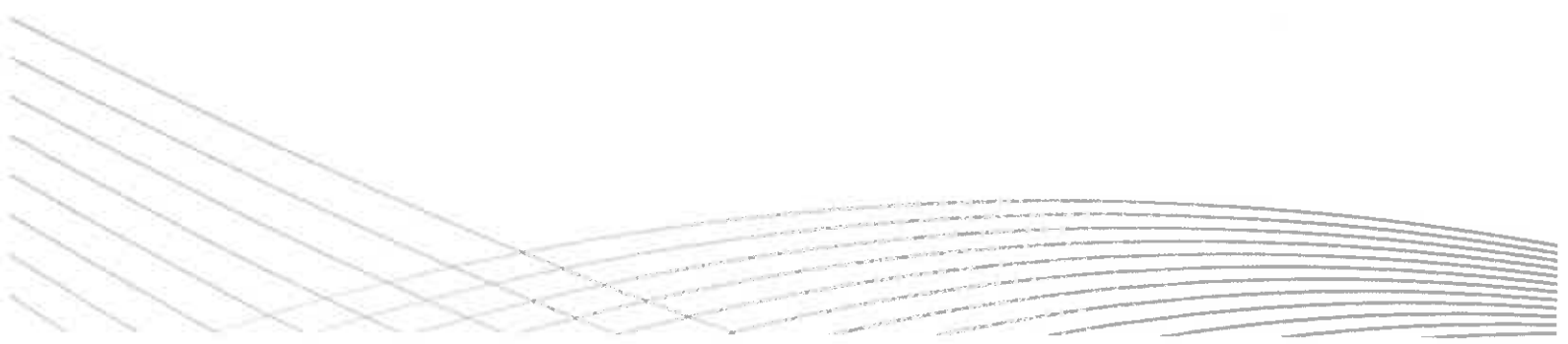
### Personal Service

- ▲ Dedicated service specialists and regular on-site support
- ▲ Customized solutions: the right products, tools, and equipment
- ▲ Demonstrated impact supported by data
- ▲ Onsite employee training at no additional charge
- ▲ Troubleshooting and proactive issue resolution



### Emergency Service Coverage

- ▲ Around-the-clock emergency service coverage - 24/7/365
- ▲ Live customer service agents at **1 800 35 CLEAN**
- ▲ Telephone follow-up on emergency service requests
- ▲ Escalation process to help insure timely issue resolution
- ▲ Technical support provided by world-class chemists, microbiologists and engineers





# Kitchen Service Procedures

## Personally Delivered Service

### Service Commitment

- ▲ On call 24 Hours a Day, 7 Days a Week (1-800-352-5326)

### Restaurant Kitchen Visit Procedures for Ecolab Representative

- ▲ Check in with the General Manager for any problems between calls and for new employees that need training on Ecolab areas of responsibility.
- ▲ Ecolab Representative proceeds with preventative maintenance call.



### Results Inspected

- ▲ The Ecolab Representative will inspect ware results which may include: dishware, glassware, cups, flatware, pots and pans.

### Dishmachine Inspected Areas May Include:

- |                     |                  |              |              |
|---------------------|------------------|--------------|--------------|
| ■ Booster Heater    | ■ Door           | ■ Fill Valve | ■ Jets       |
| ■ Rinse Valve       | ■ Water Level    | ■ Drains     | ■ Curtains   |
| ■ Overflow          | ■ Pre-wash Tank  | ■ By-Pass    | ■ Rinse Arms |
| ■ Gauges            | ■ Pumps          | ■ Wash Arms  | ■ Motor      |
| ■ Final Rinse       | ■ Pre-Scrap Hose | ■ Switches   | ■ Conveyors  |
| ■ Water Temperature | ■ Timers         |              |              |

### Dispensing Equipment Inspected

- ▲ Ecolab Representative will inspect all dispensing equipment to ensure proper function and concentrations.

### Readings Taken

- ▲ Ecolab Representative will measure/record machine, product and water readings including:
 

■ Wash Temp	■ Rinse PSI	■ Rinse Additive	■ Detergent Titration
■ Produce Wash	■ Quat Sanitizer	■ Water Hardness	■ Final Rinse Temp

### General Kitchen Inspection

- ▲ Ecolab Representative will inspect general kitchen area which may include:
 

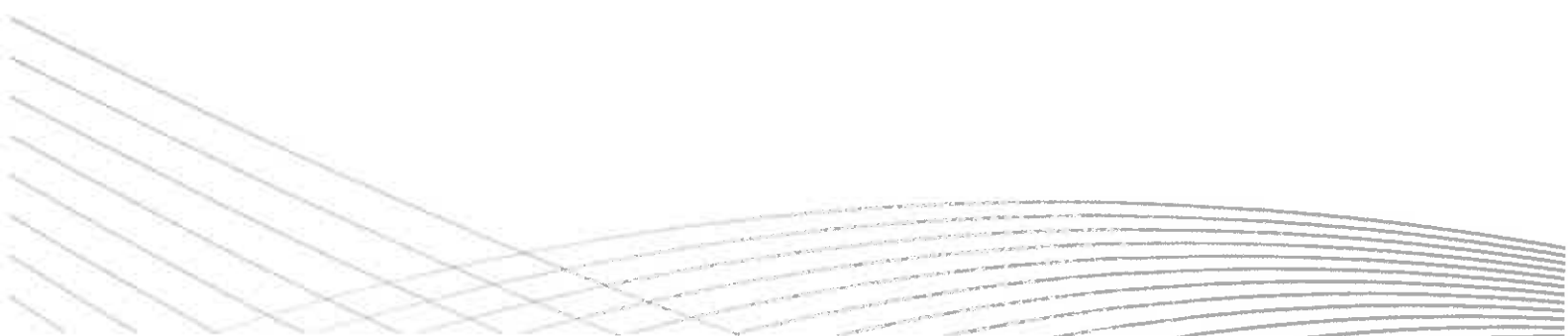
■ Pre-scrap Hose	■ Procedures	■ Garbage Disposal	■ Food Contact Surfaces
■ Cooler/ Freezer	■ Sink		

### 360° of Protection

- ▲ Ecolab Representative will inspect operational areas and potential safety areas including:
 

■ Eye Wash Station	■ First Aid Kit	■ MSDS Station	■ Wall Charts
■ Spray Bottles	■ Labels	■ Test Strips	■ Front of House
■ Inventory/ Storage	■ Floors	■ Restrooms	

- ▲ All issues identified and services provided will be detailed on a **Service Detail Report**. The Ecolab Representative prior to leaving will make required adjustments, corrections or repairs or make arrangements for them. Service reports will be reviewed electronically and signed by the Manager with all action needed agreed upon. A copy of the report will be faxed or e-mailed the following day.







# Laundry Service Procedures

## Personally Delivered Service



### Service Commitment

- ▲ On call 24 Hours a Day, 7 Days a Week (1-800-352-5326)

### Laundry Visit Procedures for Ecolab Representative

- ▲ Check in with the General Manager for any problems between calls a employees that need training on Ecolab areas of responsibility.
- ▲ Ecolab Representative proceeds with preventative maintenance call.

### Results Inspected

- ▲ The Ecolab Representative will inspect laundry results which may include: appearance, feel, odor, staining, wrinkling, chlorine, and wettability.

### Readings Taken

- ▲ Ecolab Representative will inspect general laundry area which may include: equipment, procedures, and dryer.

### Laundry Machine Products Checked May Include:

- |                   |                |            |                   |
|-------------------|----------------|------------|-------------------|
| ■ Load Counts     | ■ Load Counter | ■ Formulas | ■ Drain           |
| ■ Laundry Machine | ■ Reversing    | ■ Doors    | ■ Steam Tunnel    |
| ■ Extract         | ■ Valves       | ■ Signals  | ■ Formula Reading |
| ■ Timer           |                | ■ Water    | Equipment         |

### Dispensing Equipment Inspected

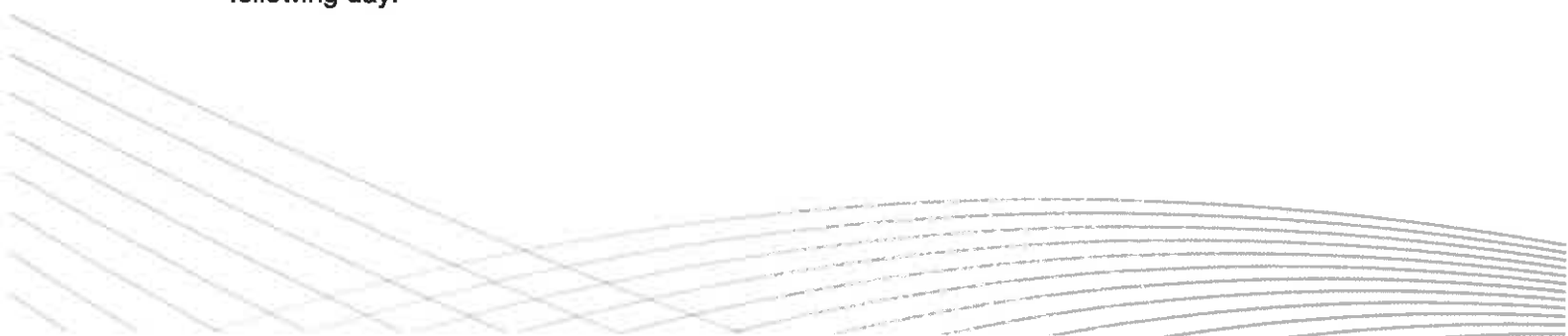
- ▲ Ecolab Representative will inspect all dispensing equipment to ensure proper function and concentrations.

### 360° of Protection

- ▲ Ecolab Representative will inspect operational areas and potential safety areas which may include:

- |                    |                 |                |                     |
|--------------------|-----------------|----------------|---------------------|
| ■ Eye Wash Station | ■ First Aid Kit | ■ MSDS Station | ■ Inventory/Storage |
| ■ Spray Bottles    | ■ Labels        | ■ Test Strips  | ■ Wall Charts       |
| ■ Biohazard Kit    | ■ Floors        |                |                     |

- ▲ All issues identified and services provided will be detailed on a **Service Detail Report**. The Ecolab Representative prior to leaving will make required adjustments, corrections or repairs or make arrangements for them. Service reports will be reviewed electronically and signed by the manager with all action needed agreed upon. A copy of the report will be faxed or e-mailed the following day.





## Sustainability

Sustainability helps drive everything we do and develop. We recognize that what we do not only has an effect within your property, but also serves as a model for the community as a whole. We take our responsibility seriously.



### Ecolab Sustainability Pledge

We are committed to delivering:

- ▲ **Superior Performance:** The best results the first time.
- ▲ **Improved Environmental Impact:** Programs that help protect employee health and safety and minimize impact on land, air and water.
- ▲ **Operational Savings:** Minimize wasteful consumption of water, energy, product, labor and packaging materials.



CLEAN  
SAFELY



SAVE  
ENERGY



CONSERVE  
WATER



REDUCE  
WASTE

### Helping Conserve Resources and Reduce Waste

- ▲ Our Solutions are proven to **clean safely** and reduce consumption of water, energy and packaging materials while protecting human health and ensuring safety.
- ▲ Up to **48% energy savings** gained using innovative laundry programs which reduces wash cycle steps thus saving water and energy.
- ▲ Up to **46% water savings** gained through advanced warewashing systems that monitor dishmachine use to lower rack counts and conserve utilities.
- ▲ Up to **98% less waste** when concentrated housekeeping solutions are used which generate less plastic waste than ready-to-use products.





**Routine Preventive Maintenance  
Service Detail Report - Warewashing**

**Everywhere It Matters**  
1-800-35-CLEAN

Location: Kitchen

Ecolab Rep:  
RICHARD J RUGGIERO  
Manager: JEFFREY R  
JABOT

**BONEFISH GRILL 7042**

2408 TYRONE BLVD N

Service Date: 09/05/2013

Time - IN: 10:18 am

SAINT PETERSBURG FL 33710  
019772753

Time - OUT: 10:27 am

Valued Customer Since Dec-2005

**Hobart C-44A Inspection**

**Results**

\* Results Rating

Dishware

Good

**Machine**

Machine	Checked - OK
Arms	Checked - OK
Arm End Caps	Checked - OK
Booster Heater	Checked - OK
Bypass	Checked - OK
Conveyor	Checked - OK
Curtains	Checked - OK
Door	Checked - OK
Drain	Checked - OK
Heaters	Checked - OK
Jets	Checked - OK
Nozzles	Checked - OK
Overflow	Checked - OK
Pressure Gauge	Checked - OK
Pressure Valve	Checked - OK
Pump	Checked - OK
Scrap Tray	Checked - OK
Switch	Checked - OK
Tanks	Checked - OK
Temperature Gauge	Checked - OK
Thermostat	Checked - OK
Timer	Checked - OK
Vacuum Breaker	Checked - OK
Valves	Checked - OK
Water	Checked - OK
Water Pressure	Checked - OK
Water Level	Checked - OK

**Dispensing**

Warewashing Machine Checked - OK

**Readings**

* Final Rinse PSI	21 psi
* Final Rinse Temp	180 deg. F
* Wash Temp	160 deg. F
* Detergent Titration - drops	13 drops
* Rinse Additive	1.1 mls
* Sanitizer - ppm	0 ppm
* Water Hardness	0 gpg
Pot and Pan Sanitizer	250 ppm

**COMMENTS:**

the scale control SCS50 wash removed from filter sys on 8/23/13 and Returned , this SCS50 was also not hooked up to the in machine

**Kitchen Area**



Everywhere It Matters  
1-800-35-CLEAN

**Routine Preventive Maintenance  
Service Detail Report - Warewashing**

**BONEFISH GRILL 7042**  
2408 TYRONE BLVD N  
SAINT PETERSBURG FL 33710  
019772753

Location: Kitchen

Service Date: 09/05/2013  
Time - IN: 10:18 am  
Time - OUT: 10:27 am

Ecolab Rep:  
RICHARD J RUGGIERO  
Manager: JEFFREY R  
JABOT

Valued Customer Since Dec-2005

**Kitchen Area**

**DISPENSING**

Warewashing Checked - OK

**DISH AREA**

Prescrap Hose Checked - OK

Procedures Checked - OK

Sink Checked - OK

**KITCHEN AREA**

Equipment Checked - OK

**PRODUCT**

Warewashing Checked - OK

**360 Visualizer**

**DISPENSING**

Dispensing System Checked - OK

**EXTERIOR**

Garbage / Dumpster Checked - OK

**FLOORS**

Warewashing Checked - OK

**FRONT OF THE HOUSE**

Dining Area Checked - OK

**GENERAL OPERATION**

Hot Water Boiler Checked - OK

House Electrical Checked - OK

House Water Checked - OK

**SAFETY**

First Aid Kit Checked - OK

MSDS Station Checked - OK

Biohazard Kit Checked - OK

Personal Protective Gear Checked - OK

Spray Bottles Checked - OK

Test Strips Checked - OK

Wall Charts - Warewashing Checked - OK

**STORAGE AREA**

Chemical Checked - OK

Mop Closet Checked - OK



**Routine Preventive Maintenance  
Service Detail Report - Warewashing**

**Everywhere It Matters**  
1-800-35-CLEAN

**BONEFISH GRILL 7042**

Location: Kitchen

Ecolab Rep:  
RICHARD J RUGGIERO  
Manager: JEFFREY R  
JABOT

2408 TYRONE BLVD N

Service Date: 09/05/2013

Time - IN: 10:18 am

SAINT PETERSBURG FL 33710  
019772753

Time - OUT: 10:27 am

Valued Customer Since Dec-2005

CODE	NAME	INV	QTY

*No Charge for Service*

**CUSTOMER REVIEW**

**Customer Acknowledgement**

# State of West Virginia

## VENDOR PREFERENCE CERTIFICATE

Certification and application\* is hereby made for Preference in accordance with *West Virginia Code*, §5A-3-37. (Does not apply to construction contracts). *West Virginia Code*, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the *West Virginia Code*. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Vendor Preference, if applicable.

**1. Application is made for 2.5% vendor preference for the reason checked:**

Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,

Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,

Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,

**2. Application is made for 2.5% vendor preference for the reason checked:**

Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,

**3. Application is made for 2.5% vendor preference for the reason checked:**

Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,

**4. Application is made for 5% vendor preference for the reason checked:**

Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,

**5. Application is made for 3.5% vendor preference who is a veteran for the reason checked:**

Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,

**6. Application is made for 3.5% vendor preference who is a veteran for the reason checked:**

Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.

**7. Application is made for preference as a non-resident small, women- and minority-owned business, in accordance with *West Virginia Code* §5A-3-59 and *West Virginia Code of State Rules*.**

Bidder has been or expects to be approved prior to contract award by the Purchasing Division as a certified small, women- and minority-owned business.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Under penalty of law for false swearing (*West Virginia Code*, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: Ecoblab Inc.

Signed: 

Date: 05/08/2015

Title: Bruce Kottom, Sr. Government Sales Manager

STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING AFFIDAVIT**

**MANDATE:** Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

**EXCEPTION:** The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

**DEFINITIONS:**

**"Debt"** means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

**"Employer default"** means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

**"Related party"** means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

**AFFIRMATION:** By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

**WITNESS THE FOLLOWING SIGNATURE:**

Vendor's Name: Ecolab Inc.

Authorized Signature: *Ben Kolla* Date: 05/08/2015

State of Minnesota

County of Ramsey, to-wit:

Taken, subscribed, and sworn to before me this 08 day of May, 2015.

My Commission expires 1-31-20, 20    .



NOTARY PUBLIC *Michele Kennedy*

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : SOLID POWER XL

Other means of identification : Not applicable

Recommended use : Machine Warewashing Detergent

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : UP TO 0.15%

Company : Ecolab Inc.  
370 N. Wabasha Street  
St. Paul, Minnesota USA 55102  
1-800-352-5326

Emergency telephone : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date : 04/14/2015

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification****Product AS SOLD**

Skin corrosion : Category 1A  
Serious eye damage : Category 1

**Product AT USE DILUTION**

Not a hazardous substance or mixture.

**GHS Label element****Product AS SOLD**

Hazard pictograms



Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention:**  
Wash skin thoroughly after handling. Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.  
**Response:**  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. Wash contaminated clothing before reuse.  
**Storage:**  
Store locked up.



# SAFETY DATA SHEET

## SOLID POWER XL

**Disposal:**

Dispose of contents/ container to an approved waste disposal plant.

**Product AT USE DILUTION****Precautionary Statements****Prevention:**

Wash hands thoroughly after handling

**Response:**

Get medical advice/ attention if you feel unwell.

**Storage:**

Store in accordance with local regulations

**Other hazards**

: None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Product AS SOLD**

Pure substance/mixture : Mixture

**Chemical Name**

sodium hydroxide

Polycarboxylates

**CAS-No.**

1310-73-2

52255-49-9

**Concentration (%)**

60 - 100

1 - 5

**Product AT USE DILUTION**

No hazardous ingredients

### SECTION 4. FIRST AID MEASURES

**Product AS SOLD**

In case of eye contact

: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

In case of skin contact

: Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

If swallowed

: Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

If inhaled

: Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

Protection of first-aiders

: If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Notes to physician

: Treat symptomatically.

Most important symptoms and effects, both acute and delayed

: See Section 11 for more detailed information on health effects and symptoms.

**Product AT USE DILUTION**

In case of eye contact

: Rinse with plenty of water.

In case of skin contact

: Rinse with plenty of water.

# SAFETY DATA SHEET

## SOLID POWER XL

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

If inhaled : Get medical attention if symptoms occur.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Product AS SOLD

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : None known.

Specific hazards during fire fighting : Not flammable or combustible.

Hazardous combustion products : Decomposition products may include the following materials:  
Carbon oxides  
Nitrogen oxides (NOx)  
Sulfur oxides  
Oxides of phosphorus

Special protective equipment for fire-fighters : Use personal protective equipment.

Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Product AS SOLD

Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up : Sweep up and shovel into suitable containers for disposal.

#### Product AT USE DILUTION

Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.

Environmental precautions : No special environmental precautions required

Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

# SAFETY DATA SHEET

## SOLID POWER XL

### SECTION 7. HANDLING AND STORAGE

#### Product AS SOLD

Advice on safe handling : Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage : Do not store near acids. Keep out of reach of children. Store in suitable labeled containers.

Storage temperature : -10 °C to 50 °C

#### Product AT USE DILUTION

Advice on safe handling : Wash hands after handling. For personal protection see section 8

Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Product AS SOLD

##### Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
sodium hydroxide	1310-73-2	Ceiling	2 mg/m <sup>3</sup>	ACGIH
		Ceiling	2 mg/m <sup>3</sup>	NIOSH REL
		TWA	2 mg/m <sup>3</sup>	OSHA Z1

Engineering measures : Effective exhaust ventilation system Maintain air concentrations below occupational exposure standards.

#### Personal protective equipment

Eye protection : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.

Hand protection : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.

Skin protection : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.

Respiratory protection : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

#### Product AT USE DILUTION

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Personal protective equipment

# SAFETY DATA SHEET

## SOLID POWER XL

Eye protection	: No special protective equipment required
Hand protection	: No special protective equipment required.
Skin protection	: No special protective equipment required
Respiratory protection	: No personal respiratory protective equipment normally required.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	Product AS SOLD	Product AT USE DILUTION
Appearance	: Cast Solid	liquid
Color	: opaque, white	colorless
Odor	: odorless	odorless
pH	: 12.5 - 12.8, 1 %	10.11 - 10.91
Flash point	: Not applicable	
Odor Threshold	: No data available	
Melting point/freezing point	: No data available	
Initial boiling point and boiling range	: No data available	
Evaporation rate	: No data available	
Flammability (solid, gas)	: No data available	
Upper explosion limit	: No data available	
Lower explosion limit	: No data available	
Vapor pressure	: No data available	
Relative vapor density	: No data available	
Relative density	: No data available	
Water solubility	: No data available	
Solubility in other solvents	: No data available	
Partition coefficient: n-octanol/water	: No data available	
Autoignition temperature	: No data available	
Thermal decomposition	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
Molecular weight	: No data available	
VOC	: No data available	

### SECTION 10. STABILITY AND REACTIVITY

<b>Product AS SOLD</b>	
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.

# SAFETY DATA SHEET

## SOLID POWER XL

Conditions to avoid	: None known.
Incompatible materials	: Metals Organic materials Acids
Hazardous decomposition products	: Decomposition products may include the following materials: Carbon oxides Nitrogen oxides (NOx) Sulfur oxides Oxides of phosphorus

### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Eye contact, Skin contact

#### Potential Health Effects

##### Product AS SOLD

Eyes	: Causes serious eye damage.
Skin	: Causes severe skin burns.
Ingestion	: Causes digestive tract burns.
Inhalation	: May cause nose, throat, and lung irritation.
Chronic Exposure	: Health injuries are not known or expected under normal use.

##### Product AT USE DILUTION

Eyes	: Health injuries are not known or expected under normal use.
Skin	: Health injuries are not known or expected under normal use.
Ingestion	: Health injuries are not known or expected under normal use.
Inhalation	: Health injuries are not known or expected under normal use.
Chronic Exposure	: Health injuries are not known or expected under normal use.

#### Experience with human exposure

##### Product AS SOLD

Eye contact	: Redness, Pain, Corrosion
Skin contact	: Redness, Pain, Corrosion
Ingestion	: Corrosion, Abdominal pain
Inhalation	: Respiratory irritation, Cough

##### Product AT USE DILUTION

Eye contact	: No symptoms known or expected.
Skin contact	: No symptoms known or expected.
Ingestion	: No symptoms known or expected.

# SAFETY DATA SHEET

## SOLID POWER XL

Inhalation : No symptoms known or expected

### Toxicity

#### Product AS SOLD

Acute oral toxicity : Acute toxicity estimate > 5,000 mg/kg  
Acute inhalation toxicity : No data available  
Acute dermal toxicity : No data available  
Skin corrosion/irritation : No data available  
Serious eye damage/eye irritation : No data available  
Respiratory or skin sensitization : No data available  
Carcinogenicity : No data available  
Reproductive effects : No data available  
Germ cell mutagenicity : No data available  
Teratogenicity : No data available  
STOT-single exposure : No data available  
STOT-repeated exposure : No data available  
Aspiration toxicity : No data available

#### Ingredients

Acute dermal toxicity : Polycarboxylates  
LD50 Rabbit > 5,000 mg/kg

## SECTION 12. ECOLOGICAL INFORMATION

#### Product AS SOLD

##### Ecotoxicity

Environmental Effects : Harmful to aquatic life.

##### Product

Toxicity to fish : No data available  
Toxicity to daphnia and other aquatic invertebrates : No data available  
Toxicity to algae : No data available

##### Ingredients

Toxicity to fish : Polycarboxylates  
96 h LC50 Fish: > 100 mg/l

##### Ingredients

Toxicity to daphnia and other aquatic invertebrates : sodium hydroxide  
48 h EC50: 40 mg/l

##### Persistence and degradability

No data available

# SAFETY DATA SHEET

## SOLID POWER XL

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

### Product AS SOLD

- Disposal methods : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.
- Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.
- RCRA - Resource Conservation and Recovery Authorization Act Hazardous waste : D002 (Corrosive)

### Product AT USE DILUTION

- Disposal methods : Diluted product can be flushed to sanitary sewer.
- Disposal considerations : Dispose of in accordance with local, state, and federal regulations.

## SECTION 14. TRANSPORT INFORMATION

### Product AS SOLD

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

#### Land transport (DOT)

- UN number : 1823
- Description of the goods : Sodium hydroxide, solid
- Class : 8
- Packing group : II
- Environmentally hazardous : no

#### Sea transport (IMDG/IMO)

- UN number : 1823
- Description of the goods : SODIUM HYDROXIDE, SOLID
- Class : 8
- Packing group : II
- Marine pollutant : no

### Product AT USE DILUTION

Not intended for transport.

# SAFETY DATA SHEET

## SOLID POWER XL

### SECTION 15. REGULATORY INFORMATION

#### Product AS SOLD

#### EPCRA - Emergency Planning and Community Right-to-Know

#### CERCLA Reportable Quantity

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
sodium hydroxide	1310-73-2	1000	1551

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Acute Health Hazard

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

#### The ingredients of this product are reported in the following inventories:

**Switzerland. New notified substances and declared preparations :**  
not determined

**United States TSCA Inventory :**  
On TSCA Inventory

**Canadian Domestic Substances List (DSL) :**  
All components of this product are on the Canadian DSL.

**Australia Inventory of Chemical Substances (AICS) :**  
On the inventory, or in compliance with the inventory

**New Zealand. Inventory of Chemical Substances :**  
On the inventory, or in compliance with the inventory

**Japan. ENCS - Existing and New Chemical Substances Inventory :**  
not determined

**Japan. ISHL - Inventory of Chemical Substances (METI) :**  
not determined

**Korea. Korean Existing Chemicals Inventory (KECI) :**  
not determined

**Philippines Inventory of Chemicals and Chemical Substances (PICCS) :**  
On the inventory, or in compliance with the inventory

**China. Inventory of Existing Chemical Substances in China (IECSC) :**  
On the inventory, or in compliance with the inventory



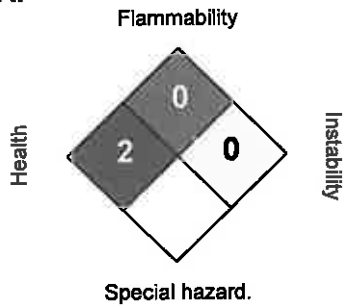
# SAFETY DATA SHEET

## SOLID POWER XL

### SECTION 16. OTHER INFORMATION

#### Product AS SOLD

##### NFPA:



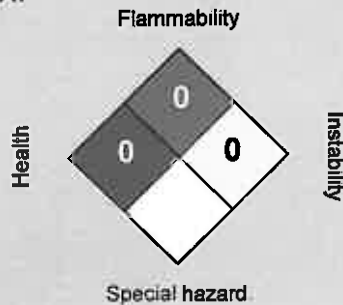
##### HMIS III:

HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

#### Product AT USE DILUTION

##### NFPA:



##### HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

Issuing date 04/14/2015  
Version 1.1  
Prepared by Regulatory Affairs

**REVISED INFORMATION:** Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

# SAFETY DATA SHEET



JET DRY

## Section 1. Chemical product and company identification

**Product name** : JET DRY  
**Recommended use and restrictions** : Rinse additive  
Use only for the purpose on the product label.

**Product dilution information** : Up to 5.6 oz/100 gal in water

**Supplier's information** : Ecolab Inc. Institutional Division  
370 N. Wabasha Street  
St. Paul, MN 55102  
1-800-352-5326

**Code** : 914598-01

**Date of issue** : 22 Oct 2013

EMERGENCY HEALTH INFORMATION: 1-800-328-0026  
Outside United States and Canada CALL 1-651-222-5352 (in USA)

## Section 2. Hazards identification

**GHS Classification** : **Product AS SOLD**  
SERIOUS EYE DAMAGE/ EYE IRRITATION -  
Category 2B

### GHS label elements

**Signal word** : Warning

**Hazard statements** : Causes eye irritation.

### Precautionary statements

**Prevention** : Wash hands thoroughly after handling.

**Response** : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

**Storage** : No other specific measures identified.

**Disposal** : See section 13 for waste disposal information.

**Other hazards** : None known.

### **Product AT USE DILUTION**

Not classified.

No signal word.

No known significant effects or critical hazards.

Wash thoroughly after handling.

Get medical attention if symptoms appear.

No other specific measures identified.

See section 13 for waste disposal information.

None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

### **Product AS SOLD**

Hazardous ingredients	Concentration Range (%)	CAS number
oxirane, methyl-, polymer with oxirane	1 - 5	9003-11-6
alcohols, c10-16, ethoxylated	1 - 5	68002-97-1

### Section 3. Composition/information on ingredients

#### Product AT USE DILUTION

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

### Section 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
<b>Eye contact</b>	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.	No known effect after eye contact. Rinse with water for a few minutes.
<b>Skin contact</b>	: No known effect after skin contact. Rinse with water for a few minutes.	No known effect after skin contact. Rinse with water for a few minutes.
<b>Inhalation</b>	: No special measures required. Treat symptomatically.	No special measures required. Treat symptomatically.
<b>Ingestion</b>	: Get medical attention if symptoms occur.	Get medical attention if symptoms occur.
<b>Protection of first-aiders</b>	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.	
<b>Notes to physician</b>	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	

See toxicological information (section 11)

### Section 5. Fire-fighting measures

#### Product AS SOLD

<b>Suitable fire extinguishing media</b>	: Use water spray, fog or foam.
<b>Specific hazards arising from the chemical</b>	: In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous thermal decomposition products</b>	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
<b>Specific fire-fighting methods</b>	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Special protective equipment for fire-fighters</b>	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

	Product AS SOLD	Product AT USE DILUTION
<b>Personal precautions</b>	: Use personal protective equipment as required.	Use personal protective equipment as required.
<b>Environmental precautions</b>	: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.	Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
<b>Methods for cleaning up</b>	: Use a water rinse for final clean-up.	Use a water rinse for final clean-up.

## Section 7. Handling and storage

**Product AS SOLD**

**Handling** : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

**Storage** : Keep out of reach of children. Keep container tightly closed.

Store between the following temperatures: 0 and 50°C

**Product AT USE DILUTION**

Wash thoroughly after handling.

Keep out of reach of children.

## Section 8. Exposure controls/personal protection

### Control parameters

Ingredient name	Exposure limits
None.	

**Product AS SOLD**

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Personal protection**

**Eye protection** : No protective equipment is needed under normal use conditions.

**Hand protection** : No protective equipment is needed under normal use conditions.

**Skin protection** : No protective equipment is needed under normal use conditions.

**Respiratory protection** : A respirator is not needed under normal and intended conditions of product use.

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

**Product AT USE DILUTION**

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

No protective equipment is needed under normal use conditions.

No protective equipment is needed under normal use conditions.

No protective equipment is needed under normal use conditions.

A respirator is not needed under normal and intended conditions of product use.

## Section 9. Physical and chemical properties

**Product AS SOLD**

**Physical state** : Liquid.

**Color** : Green [Dark]

**Odor** : Odorless

**pH** : 2.61 (100%)

**Flash point** : > 100°C  
Product does not support combustion.

**Explosion limits** : Not available.

**Flammability (solid, gas)** : Not available.

**Melting point** : Not available.

**Boiling point** : Not available.

**Evaporation rate (butyl acetate = 1)** : Not available.

**Vapor pressure** : Not available.

**Vapor density** : Not available.

**Relative density** : 1.01 (Water = 1)

**Product AT USE DILUTION**

Liquid.

Clear

Odorless

7 to 8

> 100°C

## Section 9. Physical and chemical properties

<b>Solubility</b>	: Not available.
<b>Partition coefficient:</b> <b>n-octanol/water</b>	: Not available.
<b>Auto-ignition</b> <b>temperature</b>	: Not available.
<b>Decomposition</b> <b>temperature</b>	: Not available.
<b>Odor threshold</b>	: Not available.
<b>Viscosity</b>	: Kinematic (room temperature): 0 cm <sup>2</sup> /s (0 cSt)

## Section 10. Stability and reactivity

### Product AS SOLD

<b>Stability</b>	: The product is stable.
<b>Possibility of hazardous</b> <b>reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: No specific data.
<b>Materials to avoid</b>	: Not available.
<b>Hazardous decomposition</b> <b>products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

**Route of exposure** : Skin contact, Eye contact, Inhalation, Ingestion

### Product AS SOLD

#### Symptoms

<b>Eye contact</b>	: Adverse symptoms may include the following: irritation watering redness
<b>Skin contact</b>	: No specific data.
<b>Inhalation</b>	: No specific data.
<b>Ingestion</b>	: No specific data.
<b>Acute toxicity</b>	
<b>Eye contact</b>	: Causes eye irritation.
<b>Skin contact</b>	: No known significant effects or critical hazards.
<b>Inhalation</b>	: No known significant effects or critical hazards.
<b>Ingestion</b>	: No known significant effects or critical hazards.

### Product AT USE DILUTION

No specific data.

No specific data.

No specific data.

No specific data.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

#### Toxicity data

##### Product/ingredient name

oxirane, methyl-, polymer with oxirane	LC50 Inhalation	Rat	0.147 mg/l
	Dusts and mists		
	LD50 Dermal	Rabbit	>2000 mg/kg
	LD50 Oral	Rat	>2000 mg/kg
alcohols, c10-16, ethoxylated	LC50 Inhalation	Rat	>50 mg/l
	Dusts and mists		
	LD50 Dermal	Rat	>2000 mg/kg
	LD50 Oral	Rat	>1000 mg/kg

#### Chronic toxicity

## Section 11. Toxicological information

**Carcinogenicity** : No known significant effects or critical hazards.  
**Mutagenicity** : No known significant effects or critical hazards.  
**Teratogenicity** : No known significant effects or critical hazards.  
**Developmental effects** : No known significant effects or critical hazards.  
**Fertility effects** : No known significant effects or critical hazards.

## Section 12. Ecological information

### Product AS SOLD

**Ecotoxicity** : This material is toxic to aquatic life.

### Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
oxirane, methyl-, polymer with oxirane	Acute LC50 >100 mg/l	Fish	96 hours
alcohols, c10-16, ethoxylated	Acute EC50 >0.1 mg/l	Daphnia	48 hours

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : **Product AS SOLD**  
 Diluted product can be flushed to sanitary sewer.  
 Discard empty container in trash.

### **Product AT USE DILUTION**

Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

## Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

### DOT

**DOT Classification** : Not regulated.

### IMO/IMDG

**IMO/IMDG Classification** : Not regulated.

For transport in bulk, see shipping documents for specific transportation information.

### **Product AT USE DILUTION**

Not intended for transport.

## Section 15. Regulatory information

### Product AS SOLD

#### U.S. Federal regulations

**TSCA 8(b) inventory** : All components are listed or exempted.

**SARA 302/304/311/312 extremely hazardous substances**: No listed substance

**SARA 302/304 emergency planning and notification**: No listed substance

<u>SARA 313</u>	<u>Product name</u>	<u>CAS number</u>	<u>Concentration</u>
<b>Form R - Reporting requirements</b>	: No listed substance		
<b>California Prop. 65</b>	: No listed substance		

**Section 16. Other information**

**Product AS SOLD**  
**Hazardous Material** :  
**Information System (U.S.A.)**

Health	1
Flammability	0
Physical hazards	0

**National Fire Protection** :  
**Association (U.S.A.)**



**Product AT USE DILUTION**

Health	0
Flammability	0
Physical hazards	0



**Date of issue** : 22 Oct 2013  
**Prepared by** : Regulatory Affairs  
 1-800-352-5326

**Notice to reader**

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

# SAFETY DATA SHEET



RINSE DRY

## Section 1. Chemical product and company identification

**Product name** : RINSE DRY  
**Recommended use and restrictions** : Rinse additive  
Use only for the purpose on the product label.

**Product dilution information** : 0.75mL/rack

**Supplier's information** : Ecolab Inc. Institutional Division  
370 N. Wabasha Street  
St. Paul, MN 55102  
1-800-352-5326

**Code** : 913590

**Date of issue** : 29 Aug 2013

EMERGENCY HEALTH INFORMATION: 1-800-328-0026  
Outside United States and Canada CALL 1-651-222-5352 (in USA)

## Section 2. Hazards identification

**GHS Classification** : **Product AS SOLD**  
SERIOUS EYE DAMAGE/ EYE IRRITATION -  
Category 2B

### GHS label elements

**Signal word** : Warning

**Hazard statements** : Causes eye irritation.

### Precautionary statements

**Prevention** : Wash hands thoroughly after handling.

**Response** : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

**Storage** : No other specific measures identified.

**Disposal** : See section 13 for waste disposal information.

**Other hazards** : None known.

### **Product AT USE DILUTION**

Not classified.

No signal word.

No known significant effects or critical hazards.

Wash thoroughly after handling.

Get medical attention if symptoms appear.

No other specific measures identified.

See section 13 for waste disposal information.

None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

### **Product AS SOLD**

Hazardous ingredients	Concentration Range (%)	CAS number
oxirane, methyl-, polymer with oxirane	1 - 5	9003-11-6
alcohols, c10-16, ethoxylated	1 - 5	68002-97-1



### Section 3. Composition/information on ingredients

#### Product AT USE DILUTION

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

### Section 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
<b>Eye contact</b>	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.	No known effect after eye contact. Rinse with water for a few minutes.
<b>Skin contact</b>	: No known effect after skin contact. Rinse with water for a few minutes.	No known effect after skin contact. Rinse with water for a few minutes.
<b>Inhalation</b>	: No special measures required. Treat symptomatically.	No special measures required. Treat symptomatically.
<b>Ingestion</b>	: Get medical attention if symptoms occur.	Get medical attention if symptoms occur.
<b>Protection of first-aiders</b>	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.	
<b>Notes to physician</b>	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	

See toxicological information (section 11)

### Section 5. Fire-fighting measures

#### Product AS SOLD

<b>Suitable fire extinguishing media</b>	: Use water spray, fog or foam.
<b>Specific hazards arising from the chemical</b>	: In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous thermal decomposition products</b>	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
<b>Specific fire-fighting methods</b>	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Special protective equipment for fire-fighters</b>	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

	Product AS SOLD	Product AT USE DILUTION
<b>Personal precautions</b>	: Use personal protective equipment as required.	Use personal protective equipment as required.
<b>Environmental precautions</b>	: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.	Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
<b>Methods for cleaning up</b>	: Use a water rinse for final clean-up.	Use a water rinse for final clean-up.

## Section 7. Handling and storage

**Product AS SOLD**

**Handling** : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

**Storage** : Keep out of reach of children. Keep container tightly closed.

Store between the following temperatures: 0 and 50°C

**Product AT USE DILUTION**

Wash thoroughly after handling.

Keep out of reach of children.

## Section 8. Exposure controls/personal protection

### Control parameters

Ingredient name	Exposure limits
None.	

	Product AS SOLD	Product AT USE DILUTION
<b>Appropriate engineering controls</b>	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
<b>Personal protection</b>		
<b>Eye protection</b>	: No protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
<b>Hand protection</b>	: No protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
<b>Skin protection</b>	: No protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
<b>Respiratory protection</b>	: A respirator is not needed under normal and intended conditions of product use.	A respirator is not needed under normal and intended conditions of product use.
<b>Hygiene measures</b>	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.	

## Section 9. Physical and chemical properties

	Product AS SOLD	Product AT USE DILUTION
<b>Physical state</b>	: Liquid.	Liquid.
<b>Color</b>	: Green [Light]	Clear
<b>Odor</b>	: Faint odor	Odorless
<b>pH</b>	: 2.701 (100%)	8.5
<b>Flash point</b>	: > 100°C	> 100°C
<b>Explosion limits</b>	: Not available.	
<b>Flammability (solid, gas)</b>	: Not available.	
<b>Melting point</b>	: Not available.	
<b>Boiling point</b>	: Not available.	
<b>Evaporation rate (butyl acetate = 1)</b>	: Not available.	
<b>Vapor pressure</b>	: Not available.	
<b>Vapor density</b>	: Not available.	
<b>Relative density</b>	: 1.0153 (Water = 1)	
<b>Solubility</b>	: Not available.	

## Section 9. Physical and chemical properties

Partition coefficient : Not available.  
 n-octanol/water  
 Auto-ignition temperature : Not available.  
 Decomposition temperature : Not available.  
 Odor threshold : Not available.  
 Viscosity : Not available.

## Section 10. Stability and reactivity

### Product AS SOLD

Stability : The product is stable.  
 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.  
 Conditions to avoid : No specific data.  
 Materials to avoid : Not available.  
 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

Route of exposure : Skin contact, Eye contact, Inhalation, Ingestion

### Product AS SOLD

#### Symptoms

Eye contact : Adverse symptoms may include the following:  
 irritation  
 watering  
 redness  
 Skin contact : No specific data.  
 Inhalation : No specific data.  
 Ingestion : No specific data.  
Acute toxicity  
 Eye contact : Causes eye irritation.  
 Skin contact : No known significant effects or critical hazards.  
 Inhalation : No known significant effects or critical hazards.  
 Ingestion : No known significant effects or critical hazards.

### Product AT USE DILUTION

No specific data.

No specific data.

No specific data.

No specific data.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

#### Toxicity data

##### Product/ingredient name

oxirane, methyl-, polymer with oxirane	LC50 Inhalation Dusts and mists	Rat	0.1 7 mg/l
	LD50 Dermal	Rabbit	>2000 mg/kg
	LD50 Oral	Rat	>2000 mg/kg
alcohols, c10-16, ethoxylated	LC50 Inhalation Dusts and mists	Rat	>50 mg/l
	LD50 Dermal	Rat	>2000 mg/kg
	LD50 Oral	Rat	>1000 mg/kg

#### Chronic toxicity

Carcinogenicity : No known significant effects or critical hazards.

## Section 11. Toxicological information

**Mutagenicity** : No known significant effects or critical hazards.  
**Teratogenicity** : No known significant effects or critical hazards.  
**Developmental effects** : No known significant effects or critical hazards.  
**Fertility effects** : No known significant effects or critical hazards.

## Section 12. Ecological information

### Product AS SOLD

**Ecotoxicity** : This material is toxic to aquatic life.

### Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
oxirane, methyl-, polymer with oxirane	Acute LC50 >100 mg/l	Fish	96 hours
alcohols, c10-16, ethoxylated	Acute EC50 >0.1 mg/l	Daphnia	8 hours

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Product AS SOLD**  
**Disposal methods** : Diluted product can be flushed to sanitary sewer.  
 Discard empty container in trash.

**Product AT USE DILUTION**  
 Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

## Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

### DOT

DOT Classification : Not regulated.

### IMO/IMDG

IMO/IMDG Classification : Not regulated.

For transport in bulk, see shipping documents for specific transportation information.

### Product AT USE DILUTION

Not intended for transport.

## Section 15. Regulatory information

### Product AS SOLD

#### U.S. Federal regulations

**TSCA 8(b) inventory** : All components are listed or exempted.

**SARA 302/304/311/312 extremely hazardous substances**: No listed substance

**SARA 302/304 emergency planning and notification**: No listed substance

<u>SARA 313</u>	<u>Product name</u>	<u>CAS number</u>	<u>Concentration</u>
<b>Form R - Reporting requirements</b>	: No listed substance		

**California Prop. 65** : No listed substance

**Section 16. Other information**

**Product AS SOLD**  
**Hazardous Material**  
**Information System (U.S.A.)**

Health	1
Flammability	0
Physical hazards	0

**National Fire Protection**  
**Association (U.S.A.)**



**Product AT USE DILUTION**

Health	0
Flammability	0
Physical hazards	0



**Date of issue** : 29 Aug 2013  
**Prepared by** : Regulatory Affairs  
 1-800-352-5326

**Notice to reader**

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

# SAFETY DATA SHEET



## OASIS 146 MULTI-QUAT SANITIZER

### Section 1. Chemical product and company identification

**Product name** : OASIS 146 MULTI-QUAT SANITIZER  
**Recommended use and restrictions** : Sanitizer.  
Use only for the purpose on the product label.

**Product dilution information** : Up to 4 oz/gal in water

**Supplier's information** : Ecolab Inc. Institutional Division  
370 N. Wabasha Street  
St. Paul, MN 55102  
1-800-352-5326

**Code** : 910787

**Date of issue** : 06 Aug 2013

**EPA Registration No.** : 1677-198

EMERGENCY HEALTH INFORMATION: 1-800-328-0026  
Outside United States and Canada CALL 1-651-222-5352 (in USA)

### Section 2. Hazards identification

**GHS Classification** : **Product AS SOLD**  
ACUTE TOXICITY: ORAL - Category 4  
SKIN CORROSION/IRRITATION - Category 1B  
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

#### GHS label elements

**Signal word** : Danger

**Symbol** :

**Hazard statements** : Harmful if swallowed.  
Causes severe skin burns and eye damage.

#### Precautionary statements

**Prevention** : Wear protective gloves. Wear eye or face protection. Wear protective clothing. Wash hands thoroughly after handling.

**Response** : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes.

**Product AT USE DILUTION**  
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B

Warning

Causes eye irritation.

Wash hands thoroughly after handling.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

## Section 2. Hazards identification

	Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.	
<b>Storage</b>	: No other specific measures identified.	No other specific measures identified. See section 13 for waste disposal information. None known.
<b>Disposal</b>	: See section 13 for waste disposal information.	
<b>Other hazards</b>	: None known.	

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

### Product AS SOLD

Hazardous ingredients	Concentration Range (%)	CAS number
Alkyl (C14, 50%; C12, 40%; C16, 10%)	3	68424-85-1
Dimethyl benzyl ammonium chloride		
Octyl decyl dimethyl ammonium chloride	2.25	32426-11-2
Didecyl dimethyl ammonium chloride	1.35	7173-51-5
Diocetyl dimethyl ammonium chloride	0.9	5538-94-3
ALCOHOL	1 - 5	64-17-5

### Product AT USE DILUTION

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

## Section 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
<b>Eye contact</b>	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.
<b>Skin contact</b>	: Take off immediately all contaminated clothing. Rinse skin with water or shower. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.	No known effect after skin contact. Rinse with water for a few minutes.
<b>Inhalation</b>	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.	No special measures required. Treat symptomatically.
<b>Ingestion</b>	: Get medical attention immediately. Rinse mouth. Do not induce vomiting.	Get medical attention if symptoms occur.
<b>Protection of first-aiders</b>	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	
<b>Notes to physician</b>	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.	
<b>See toxicological information (section 11)</b>		

## Section 5. Fire-fighting measures

**Product AS SOLD**

- Suitable fire extinguishing media** : Use water spray, fog or foam.
- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
 carbon dioxide  
 carbon monoxide  
 nitrogen oxides  
 halogenated compounds
- Specific fire-fighting methods** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

**Product AS SOLD**

- Personal precautions** : Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Do not touch or walk through spilled material.
- Environmental precautions** : Avoid contact of spilled material and runoff with soil and surface waterways.
- Methods for cleaning up** : Follow company's spill procedures. Keep people away from spill. Put on appropriate personal protective equipment (see section 8). Absorb/neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Use a water rinse for final clean-up.

**Product AT USE DILUTION**

- Use personal protective equipment as required.
- Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
- Use a water rinse for final clean-up.

## Section 7. Handling and storage

**Product AS SOLD**

- Handling** : Do not ingest. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Wash thoroughly after handling.
- Storage** : Keep out of reach of children. Keep container tightly closed.  
  
Store between the following temperatures: 0 and 50°C

**Product AT USE DILUTION**

- Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
- Keep out of reach of children. Keep container tightly closed.



## Section 8. Exposure controls/personal protection

### Control parameters

Ingredient name	Exposure limits
ALCOHOL	<b>ACGIH TLV (United States, 3/2012).</b> STEL: 1000 ppm 15 minutes. <b>OSHA PEL (United States, 6/2010).</b> TWA: 1900 mg/m <sup>3</sup> 8 hours. TWA: 1000 ppm 8 hours. <b>NIOSH REL (United States, 6/2009).</b> TWA: 1000 ppm 10 hours. TWA: 1900 mg/m <sup>3</sup> 10 hours.

**Appropriate engineering controls** : **Product AS SOLD**  
 : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

### Personal protection

**Eye protection** : Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.

**Hand protection** : Use chemical-resistant, impervious gloves.

**Skin protection** : Use suitable protective equipment.

**Respiratory protection** : A respirator is not needed under normal and intended conditions of product use.

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

**Product AT USE DILUTION**  
 Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

No protective equipment is needed under normal use conditions.

No protective equipment is needed under normal use conditions.

No protective equipment is needed under normal use conditions.

A respirator is not needed under normal and intended conditions of product use.

## Section 9. Physical and chemical properties

**Physical state** : **Product AS SOLD**  
 : Liquid.

**Color** : Red

**Odor** : disinfectant

**pH** : 7.7 (100%)

**Flash point** : > 100°C

**Explosion limits** : Not available.

**Flammability (solid, gas)** : Not available.

**Melting point** : Not available.

**Boiling point** : 100°C (212°F)

**Evaporation rate (butyl acetate = 1)** : Not available.

**Vapor pressure** : Not available.

**Vapor density** : Not available.

**Product AT USE DILUTION**  
 Liquid.  
 Red [Light]  
 disinfectant  
 8.64 [Conc. (% w/w): 100%]  
 > 100°C

## Section 9. Physical and chemical properties

<b>Relative density</b>	: 0.998 (Water = 1)
<b>Solubility</b>	: Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: Not available.
<b>Auto-ignition temperature</b>	: Not available.
<b>Decomposition temperature</b>	: Not available.
<b>Odor threshold</b>	: Not available.
<b>Viscosity</b>	: Not available.

## Section 10. Stability and reactivity

### Product AS SOLD

<b>Stability</b>	: The product is stable.
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: No specific data.
<b>Materials to avoid</b>	: Not available.
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

**Route of exposure** : Skin contact, Eye contact, Inhalation, Ingestion

### Product AS SOLD

#### Symptoms

<b>Eye contact</b>	: Adverse symptoms may include the following: pain watering redness
<b>Skin contact</b>	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
<b>Inhalation</b>	: Adverse symptoms may include the following: coughing Respiratory tract irritation
<b>Ingestion</b>	: Adverse symptoms may include the following: stomach pains
<b>Acute toxicity</b>	
<b>Eye contact</b>	: Causes serious eye damage.
<b>Skin contact</b>	: Causes severe burns.
<b>Inhalation</b>	: May cause respiratory irritation.
<b>Ingestion</b>	: Harmful if swallowed. May cause burns to mouth, throat and stomach.

#### Toxicity data

**Product/ingredient name**

### Product AT USE DILUTION

Adverse symptoms may include the following:  
irritation  
watering  
redness

No specific data.

No specific data.

No specific data.

Causes eye irritation.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

## Section 11. Toxicological information

quaternary ammonium compounds, benzyl- c12-c16-alkyldimethyl, chlorides	LD50 Dermal	Rabbit	3340 mg/kg
	LD50 Oral	Rat	344 mg/kg
1-decanaminium, n,n-dimethyl-n-octyl-, chloride	LC50 Inhalation Dusts and mists	Rat	0.07 mg/l
	LD50 Dermal	Rabbit	2930 mg/kg
	LD50 Oral	Rat	238 mg/kg
ethanol	LC50 Inhalation Vapor	Rat	117 mg/l
	LD50 Dermal	Rabbit	15800 mg/kg
	LD50 Oral	Rat	10470 mg/kg
didecyldimethylammonium chloride	LC50 Inhalation Dusts and mists	Rat	0.07 mg/l
	LD50 Dermal	Rabbit	2930 mg/kg
	LD50 Oral	Rat	1150 mg/kg

### Chronic toxicity

<b>Carcinogenicity</b>	: No known significant effects or critical hazards.
<b>Mutagenicity</b>	: No known significant effects or critical hazards.
<b>Teratogenicity</b>	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
<b>Fertility effects</b>	: No known significant effects or critical hazards.

## Section 12. Ecological information

### Product AS SOLD

**Ecotoxicity** : This material is toxic to aquatic life.

### Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
Not available.			

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : **Product AS SOLD**  
: Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations.

### Product AT USE DILUTION

Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

## Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

### DOT

**DOT Classification** Not regulated.

### IMO/IMDG

**IMO/IMDG Classification** Not regulated.

For transport in bulk, see shipping documents for specific transportation information.

### Product AT USE DILUTION

Not intended for transport.

## Section 15. Regulatory information

**Product AS SOLD**

**U.S. Federal regulations**

TSCA 8(b) inventory : All components are listed or exempted.  
 EPA Registration No. : 1677-198  
 SARA 302/304/311/312 extremely hazardous substances: No listed substance  
 SARA 302/304 emergency planning and notification: No listed substance

<u>SARA 313</u>	<u>Product name</u>	<u>CAS number</u>	<u>Concentration</u>
Form R - Reporting requirements	: No listed substance		

**California Prop. 65** : No listed substance

## Section 16. Other information

**Product AS SOLD**

**Hazardous Material Information System (U.S.A.)** :

Health	3
Flammability	0
Physical hazards	0

**National Fire Protection Association (U.S.A.)** :



**Product AT USE DILUTION**

Health	1
Flammability	0
Physical hazards	0



Date of issue : 06 Aug 2013  
 Prepared by : Regulatory Affairs  
 1-800-352-5326

**Notice to reader**

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**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : LIME-A-WAY

Other means of identification : not applicable

Recommended use : Delimer

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 0.8 % - 2.3 %

Company : Ecolab Inc.  
370 N. Wabasha Street  
St. Paul, Minnesota USA 55102  
1-800-352-5326

Emergency telephone : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date : 08/06/2014

**SECTION 2. HAZARDS IDENTIFICATION**
**GHS Classification**
**Product AS SOLD**

Skin corrosion : Category 1A  
Serious eye damage : Category 1

**Product AT USE DILUTION**

Skin corrosion : Category 1A  
Serious eye damage : Category 1

**GHS Label element**
**Product AS SOLD**

Hazard pictograms :



Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention:**  
Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. Wash contaminated clothing before reuse.  
**Storage:**

# SAFETY DATA SHEET

## LIME-A-WAY

Store locked up.

**Disposal:**

Dispose of contents/ container to an approved waste disposal plant.

### Product AT USE DILUTION

Hazard pictograms



Signal Word

: Danger

Hazard Statements

: Causes severe skin burns and eye damage.

Precautionary Statements

**Prevention:**

Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. Wash contaminated clothing before reuse.

**Storage:**

Store locked up.

**Disposal:**

Dispose of contents/ container to an approved waste disposal plant.

Other hazards

: None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Product AS SOLD

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
---------------	---------	-------------------

uronium hydrogen sulphate	21351-39-3	10 - 30
---------------------------	------------	---------

Urea	57-13-6	1 - 5
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oxirane, methyl-, polymer with oxirane	9003-11-6	0.1 - 1
--	-----------	---------

### Product AT USE DILUTION

No hazardous ingredients

## SECTION 4. FIRST AID MEASURES

### Product AS SOLD

In case of eye contact

: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

In case of skin contact

: Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

# SAFETY DATA SHEET

## LIME-A-WAY

- If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.
- Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Notes to physician : Treat symptomatically.

### Product AT USE DILUTION

- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
- In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
- If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

See toxicological information (Section 11)

## SECTION 5. FIRE-FIGHTING MEASURES

### Product AS SOLD

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Not flammable or combustible.
- Hazardous combustion products : Decomposition products may include the following materials:  
Carbon oxides  
nitrogen oxides (NOx)  
Sulfur oxides  
Oxides of phosphorus
- Special protective equipment for fire-fighters : Use personal protective equipment.
- Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Product AS SOLD

- Personal precautions, : Ensure adequate ventilation. Keep people away from and upwind of

# SAFETY DATA SHEET

## LIME-A-WAY

protective equipment and emergency procedures

spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

: Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up

: Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

### Product AT USE DILUTION

Personal precautions, protective equipment and emergency procedures

: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

: Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up

: Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

## SECTION 7. HANDLING AND STORAGE

### Product AS SOLD

Advice on safe handling

: Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage

: Keep away from strong bases. Keep out of reach of children. Store in suitable labeled containers.

Storage temperature

: 0 °C to 50 °C

### Product AT USE DILUTION

Advice on safe handling

: Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage

: Keep away from strong bases. Keep out of reach of children. Store in suitable labeled containers.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Product AS SOLD

Ingredients with workplace control parameters



# SAFETY DATA SHEET

## LIME-A-WAY

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
Urea	57-13-6	TWA	10 mg/m <sup>3</sup>	WEEL

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

### Personal protective equipment

Eye protection : Safety goggles  
Face-shield

Hand protection : Wear the following personal protective equipment:  
Standard glove type.  
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin protection : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

### Product AT USE DILUTION

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

### Personal protective equipment

Eye protection : Safety goggles  
Face-shield

Hand protection : Wear the following personal protective equipment:  
Standard glove type.  
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin protection : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	Product AS SOLD	Product AT USE DILUTION
Appearance	: liquid	liquid
Color	: clear, dark green	light blue
Odor	: odorless	odorless
pH	: 0.1 - 0.2, 100 %	0.9 - 1.8

# SAFETY DATA SHEET

## LIME-A-WAY

Flash point	: not applicable
Odor Threshold	: no data available
Melting point/freezing point	: no data available
Initial boiling point and boiling range	: 100 °C
Evaporation rate	: no data available
Flammability (solid, gas)	: no data available
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapor pressure	: no data available
Relative vapor density	: no data available
Relative density	: 1.132 - 1.162
Water solubility	: soluble
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Autoignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, kinematic	: no data available
Explosive properties	: no data available
Oxidizing properties	: no data available
Molecular weight	: no data available
VOC	: no data available

## SECTION 10. STABILITY AND REACTIVITY

### Product AS SOLD

Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: None known.
Incompatible materials	: Bases Metals
Hazardous decomposition products	: Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) Sulfur oxides Oxides of phosphorus

## SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

### Potential Health Effects

# SAFETY DATA SHEET

## LIME-A-WAY

### Product AS SOLD

- Eyes : Causes serious eye damage.
- Skin : Causes severe skin burns.
- Ingestion : Causes digestive tract burns.
- Inhalation : May cause nose, throat, and lung irritation.
- Chronic Exposure : Health injuries are not known or expected under normal use.

### Product AT USE DILUTION

- Eyes : Causes serious eye damage.
- Skin : Causes severe skin burns.
- Ingestion : Causes digestive tract burns.
- Inhalation : May cause nose, throat, and lung irritation.
- Chronic Exposure : Health injuries are not known or expected under normal use.

### Experience with human exposure

#### Product AS SOLD

- Eye contact : Redness, Pain, Corrosion
- Skin contact : Redness, Pain, Corrosion
- Ingestion : Corrosion, Abdominal pain
- Inhalation : Respiratory irritation, Cough

#### Product AT USE DILUTION

- Eye contact : Redness, Pain, Corrosion
- Skin contact : Redness, Pain, Corrosion
- Ingestion : Corrosion, Abdominal pain
- Inhalation : Respiratory irritation, Cough

### Toxicity

#### Product AS SOLD

- Acute oral toxicity : no data available
- Acute inhalation toxicity : no data available
- Acute dermal toxicity : no data available
- Skin corrosion/irritation : no data available
- Serious eye damage/eye irritation : no data available
- Respiratory or skin sensitization : no data available
- Carcinogenicity : no data available
- Reproductive effects : no data available

# SAFETY DATA SHEET

## LIME-A-WAY

Germ cell mutagenicity : no data available  
Teratogenicity : no data available  
STOT-single exposure : no data available  
STOT-repeated exposure : no data available  
Aspiration toxicity : no data available

### Ingredients

Acute oral toxicity : uronium hydrogen sulphate  
LD50 rat: > 2,000 mg/kg  
  
Urea  
LD50 rat: 8,471 mg/kg

### Ingredients

Acute inhalation toxicity : Urea  
4 h LC50 rat: > 2.71 mg/l  
  
oxirane, methyl-, polymer with oxirane  
4 h LC50 rat: 0.147 mg/l

### Ingredients

Acute dermal toxicity : uronium hydrogen sulphate  
LD50 rabbit: > 2,000 mg/kg  
  
Urea  
LD50 rat: 8,200 mg/kg

## SECTION 12. ECOLOGICAL INFORMATION

### Product AS SOLD

#### Ecotoxicity

Environmental Effects : This product has no known ecotoxicological effects.

#### Product

Toxicity to fish : no data available  
Toxicity to daphnia and other aquatic invertebrates : no data available  
Toxicity to algae : no data available

#### Ingredients

Toxicity to fish : uronium hydrogen sulphate  
96 h LC50 Fish: > 6,810 mg/l  
  
Urea  
96 h LC50 Fish: 127.9 mg/l  
  
oxirane, methyl-, polymer with oxirane  
96 h LC50 Fish: > 100 mg/l

#### Persistence and degradability

no data available

#### Bioaccumulative potential

# SAFETY DATA SHEET

## LIME-A-WAY

no data available

### Mobility in soil

no data available

### Other adverse effects

no data available

## SECTION 13. DISPOSAL CONSIDERATIONS

### Product AS SOLD

Disposal methods : Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

RCRA - Resource Conservation and Recovery Authorization Act Hazardous waste : D002 (Corrosive)

### Product AT USE DILUTION

Disposal methods : Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

## SECTION 14. TRANSPORT INFORMATION

### Product AS SOLD

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

#### Land transport (DOT)

UN number : 3265  
Description of the goods : Corrosive liquid, acidic, organic, n.o.s.  
(uronium hydrogen sulphate)  
Class : 8  
Packing group : II  
Environmentally hazardous : no

#### Sea transport (IMDG/IMO)

UN number : 3265  
Description of the goods : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(uronium hydrogen sulphate)  
Class : 8  
Packing group : II  
Marine pollutant : no

### Product AT USE DILUTION

# SAFETY DATA SHEET

**LIME-A-WAY**

Not intended for transport

## SECTION 15. REGULATORY INFORMATION

### Product AS SOLD

#### EPCRA - Emergency Planning and Community Right-to-Know

##### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

##### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Acute Health Hazard

**SARA 302** : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

#### The ingredients of this product are reported in the following inventories:

**1907/2006 (EU)** :  
not determined

**United States TSCA Inventory** :  
On TSCA Inventory

**Canadian Domestic Substances List (DSL)** :  
All components of this product are on the Canadian DSL.

**Australia Inventory of Chemical Substances (AICS)** :  
not determined

**New Zealand. Inventory of Chemical Substances** :  
On the inventory, or in compliance with the inventory

**Japan. ENCS - Existing and New Chemical Substances Inventory** :  
not determined

**Japan. ISHL - Inventory of Chemical Substances (METI)** :  
not determined

**Korea. Korean Existing Chemicals Inventory (KECI)** :  
not determined

**Philippines Inventory of Chemicals and Chemical Substances (PICCS)** :  
not determined

**China. Inventory of Existing Chemical Substances in China (IECSC)** :  
not determined

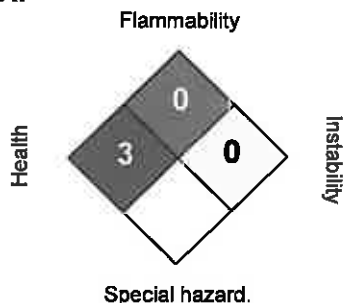
# SAFETY DATA SHEET

## LIME-A-WAY

### SECTION 16. OTHER INFORMATION

#### Product AS SOLD

##### NFPA:



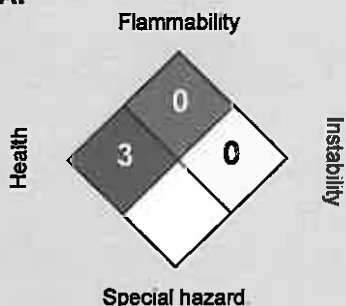
##### HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

#### Product AT USE DILUTION

##### NFPA:



##### HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

Issuing date : 08/06/2014  
Version : 1.0  
Prepared by : Regulatory Affairs

**REVISED INFORMATION:** Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : SOLITAIRE  
Other means of identification : Not applicable  
Recommended use : Manual Warewashing Detergent  
Restrictions on use : Reserved for industrial and professional use.  
Product dilution information : 0.03 % - 0.08 %

Company : Ecolab Inc.  
370 N. Wabasha Street  
St. Paul, Minnesota USA 55102  
1-800-352-5326  
Emergency telephone : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)  
Issuing date : 12/23/2014

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification****Product AS SOLD**

Skin irritation : Category 2  
Serious eye damage : Category 1

**Product AT USE DILUTION**

Not a hazardous substance or mixture

**GHS Label element****Product AS SOLD**

Hazard pictograms :



Signal Word : Danger  
Hazard Statements : Causes skin irritation.  
Causes serious eye damage.

Precautionary Statements : **Prevention:**  
Wash skin thoroughly after handling. Wear eye protection/ face protection. Wear protective gloves.  
**Response:**  
IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.

**Product AT USE DILUTION**

Precautionary Statements : **Prevention:**



# SAFETY DATA SHEET

## SOLITAIRE

Wash hands thoroughly after handling.

**Response:**

Get medical advice/ attention if you feel unwell.

**Storage:**

Store in accordance with local regulations.

**Other hazards** : None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Product AS SOLD**

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
sodium dodecylbenzene sulfonate	25155-30-0	30 - 60
Polyethylene Glycol	25322-68-3	10 - 30
dodecanamide, n-(2-hydroxyethyl)-	142-78-9	10 - 30
Ethoxylated alkyl sulfate	68585-34-2	5 - 10
Alkylamineoxides	68155-09-9	5 - 10
ethanol	64-17-5	1 - 5

**Product AT USE DILUTION**

No hazardous ingredients

### SECTION 4. FIRST AID MEASURES

**Product AS SOLD**

- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
- In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Get medical attention if irritation develops and persists.
- If swallowed : Rinse mouth. Get medical attention if symptoms occur.
- If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.
- Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Notes to physician : Treat symptomatically.
- Most important symptoms and effects, both acute and delayed : See Section 11 for more detailed information on health effects and symptoms.

**Product AT USE DILUTION**

- In case of eye contact : Rinse with plenty of water.
- In case of skin contact : Rinse with plenty of water.
- If swallowed : Rinse mouth. Get medical attention if symptoms occur.
- If inhaled : Get medical attention if symptoms occur.

# SAFETY DATA SHEET

**SOLITAIRE**

## SECTION 5. FIRE-FIGHTING MEASURES

### Product AS SOLD

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Not flammable or combustible.
- Hazardous combustion products : Decomposition products may include the following materials:  
Carbon oxides  
Nitrogen oxides (NOx)  
Sulfur oxides  
Oxides of phosphorus
- Special protective equipment for fire-fighters : Use personal protective equipment.
- Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Product AS SOLD

- Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not allow contact with soil, surface or ground water.
- Methods and materials for containment and cleaning up : Sweep up and shovel into suitable containers for disposal.

### Product AT USE DILUTION

- Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : No special environmental precautions required.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Do not flush into surface water or sanitary sewer system.

## SECTION 7. HANDLING AND STORAGE

# SAFETY DATA SHEET

## SOLITAIRE

### Product AS SOLD

- Advice on safe handling : Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling.
- Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.
- Storage temperature : 0 °C to 50 °C

### Product AT USE DILUTION

- Advice on safe handling : Wash hands after handling. For personal protection see section 8.
- Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Product AS SOLD

#### Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
Polyethylene Glycol	25322-68-3	TWA (Aerosol.)	10 mg/m <sup>3</sup>	WEEL
ethanol	64-17-5	TWA	1,000 ppm 1,900 mg/m <sup>3</sup>	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m <sup>3</sup>	OSHA Z1

- Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

#### Personal protective equipment

- Eye protection : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.
- Hand protection : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.
- Skin protection : No special protective equipment required.
- Respiratory protection : No personal respiratory protective equipment normally required.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

### Product AT USE DILUTION

- Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Personal protective equipment

- Eye protection : No special protective equipment required.
- Hand protection : No special protective equipment required.

# SAFETY DATA SHEET

## SOLITAIRE

Skin protection : No special protective equipment required.

Respiratory protection : No personal respiratory protective equipment normally required.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	<b>Product AS SOLD</b>	<b>Product AT USE DILUTION</b>
Appearance	: Cast Solid	liquid
Color	: opaque, light pink	colorless
Odor	: citrus	citrus
pH	: 7.0 - 9.0, 1 %	7.0 - 8.0
Flash point	: Not applicable	
Odor Threshold	: No data available	
Melting point/freezing point	: No data available	
Initial boiling point and boiling range	: No data available	
Evaporation rate	: No data available	
Flammability (solid, gas)	: No data available	
Upper explosion limit	: No data available	
Lower explosion limit	: No data available	
Vapor pressure	: No data available	
Relative vapor density	: No data available	
Relative density	: No data available	
Water solubility	: insoluble	
Solubility in other solvents	: No data available	
Partition coefficient: n-octanol/water	: No data available	
Autoignition temperature	: No data available	
Thermal decomposition	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
Molecular weight	: No data available	
VOC	: No data available	

### SECTION 10. STABILITY AND REACTIVITY

#### Product AS SOLD

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.

Conditions to avoid : None known.

Incompatible materials : None known.

# SAFETY DATA SHEET

## SOLITAIRE

Hazardous decomposition products : Decomposition products may include the following materials:  
Carbon oxides  
Nitrogen oxides (NOx)  
Sulfur oxides  
Oxides of phosphorus

### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Eye contact, Skin contact

#### Potential Health Effects

##### Product AS SOLD

Eyes : Causes serious eye damage.  
Skin : Causes skin irritation.  
Ingestion : Health injuries are not known or expected under normal use.  
Inhalation : Health injuries are not known or expected under normal use.  
Chronic Exposure : Health injuries are not known or expected under normal use.

##### Product AT USE DILUTION

Eyes : Health injuries are not known or expected under normal use.  
Skin : Health injuries are not known or expected under normal use.  
Ingestion : Health injuries are not known or expected under normal use.  
Inhalation : Health injuries are not known or expected under normal use.  
Chronic Exposure : Health injuries are not known or expected under normal use.

#### Experience with human exposure

##### Product AS SOLD

Eye contact : Redness, Pain, Corrosion  
Skin contact : Redness, Irritation  
Ingestion : No symptoms known or expected.  
Inhalation : No symptoms known or expected.

##### Product AT USE DILUTION

Eye contact : No symptoms known or expected.  
Skin contact : No symptoms known or expected.  
Ingestion : No symptoms known or expected.  
Inhalation : No symptoms known or expected.

#### Toxicity

##### Product AS SOLD

# SAFETY DATA SHEET

## SOLITAIRE

Acute oral toxicity	: Acute toxicity estimate 3,358 mg/kg
Acute inhalation toxicity	: No data available
Acute dermal toxicity	: Acute toxicity estimate > 5,000 mg/kg
Skin corrosion/irritation	: No data available
Serious eye damage/eye irritation	: No data available
Respiratory or skin sensitization	: No data available
Carcinogenicity	: No data available
Reproductive effects	: No data available
Germ cell mutagenicity	: No data available
Teratogenicity	: No data available
STOT-single exposure	: No data available
STOT-repeated exposure	: No data available
Aspiration toxicity	: No data available

### Ingredients

Acute inhalation toxicity	: ethanol 4 h LC50 Rat: 117 mg/l
---------------------------	-------------------------------------

## SECTION 12. ECOLOGICAL INFORMATION

### Product AS SOLD

#### Ecotoxicity

Environmental Effects	: Toxic to aquatic life.
-----------------------	--------------------------

#### Product

Toxicity to fish	: No data available
Toxicity to daphnia and other aquatic invertebrates	: No data available
Toxicity to algae	: No data available

#### Ingredients

Toxicity to fish	: sodium dodecylbenzene sulfonate 96 h LC50: 3.2 mg/l
	Polyethylene Glycol 96 h LC50 Fish: > 1,000 mg/l
	dodecanamide, n-(2-hydroxyethyl)- 96 h LC50 Fish: > 100 mg/l
	Ethoxylated alkyl sulfate 96 h LC50 Fish: 28 mg/l
	ethanol 96 h LC50 Fish: 11,000 mg/l

#### Persistence and degradability

No data available

# SAFETY DATA SHEET

## SOLITAIRE

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

### Product AS SOLD

Disposal methods : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.

### Product AT USE DILUTION

Disposal methods : Diluted product can be flushed to sanitary sewer.

Disposal considerations : Dispose of in accordance with local, state, and federal regulations.

## SECTION 14. TRANSPORT INFORMATION

### Product AS SOLD

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

### Land transport (DOT)

Not dangerous goods

### Sea transport (IMDG/IMO)

Not dangerous goods

### Product AT USE DILUTION

Not intended for transport.

## SECTION 15. REGULATORY INFORMATION

### Product AS SOLD

### EPCRA - Emergency Planning and Community Right-to-Know

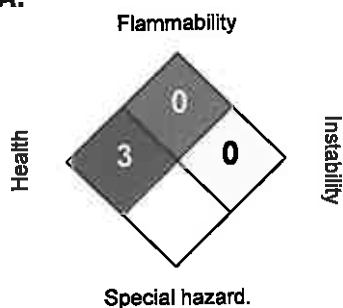
### CERCLA Reportable Quantity

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
sodium dodecylbenzene sulfonate	25155-30-0	1000	3247

# SAFETY DATA SHEET

## SOLITAIRE

### NFPA:



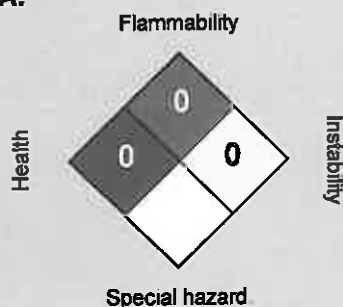
### HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

### Product AT USE DILUTION

#### NFPA:



#### HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

Issuing date : 12/23/2014  
Version : 1.0  
Prepared by : Regulatory Affairs

**REVISED INFORMATION:** Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



# SAFETY DATA SHEET



PAN DANDY

## Section 1. Chemical product and company identification

**Product name** : PAN DANDY  
**Recommended use and restrictions** : Manual Warewashing Detergent  
Use only for the purpose on the product label.

**Product dilution information** : Up to 5 oz/10 gallons or 4 mL/L in water

**Supplier's information** : Ecolab Inc. Institutional Division  
370 N. Wabasha Street  
St. Paul, MN 55102  
1-800-352-5326

**Code** : 959288

**Date of issue** : 30 Aug 2013

EMERGENCY HEALTH INFORMATION: 1-800-328-0026  
Outside United States and Canada CALL 1-651-222-5352 (in USA)

## Section 2. Hazards identification

**GHS Classification** : Product AS SOLD  
SERIOUS EYE DAMAGE/ EYE IRRITATION -  
Category 2B

### GHS label elements

**Signal word** : Warning

**Hazard statements** : Causes eye irritation.

### Precautionary statements

**Prevention** : Wash hands thoroughly after handling.  
**Response** : IF IN EYES: Rinse cautiously with water for  
several minutes. Remove contact lenses, if  
present and easy to do. Continue rinsing. If eye  
irritation persists: Get medical attention.

**Storage** : No other specific measures identified.

**Disposal** : See section 13 for waste disposal information.

**Other hazards** : None known.

### Product AT USE DILUTION

Not classified.

No signal word.

No known significant effects or critical  
hazards.

Wash thoroughly after handling.  
Get medical attention if symptoms appear.

No other specific measures identified.

See section 13 for waste disposal  
information.

None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

### **Product AS SOLD**

Hazardous ingredients	Concentration Range (%)	CAS number
SODIUM C14-16 OLEFIN SULFONATE	1 - 5	68439-57-6
SODIUM CHLORIDE	1 - 5	7647-14-5
poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, c10-16-alkyl ethers, sodium salts	1 - 5	68585-34-2
COCAMINE OXIDE	1 - 5	61788-90-7

### Section 3. Composition/information on ingredients

#### Product AT USE DILUTION

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

### Section 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
<b>Eye contact</b>	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.	No known effect after eye contact. Rinse with water for a few minutes.
<b>Skin contact</b>	: No known effect after skin contact. Rinse with water for a few minutes.	No known effect after skin contact. Rinse with water for a few minutes.
<b>Inhalation</b>	: No special measures required. Treat symptomatically.	No special measures required. Treat symptomatically.
<b>Ingestion</b>	: Get medical attention if symptoms occur.	Get medical attention if symptoms occur.
<b>Protection of first-aiders</b>	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.	
<b>Notes to physician</b>	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	

See toxicological information (section 11)

### Section 5. Fire-fighting measures

#### Product AS SOLD

<b>Suitable fire extinguishing media</b>	: Use water spray, fog or foam.
<b>Specific hazards arising from the chemical</b>	: In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous thermal decomposition products</b>	: Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
<b>Specific fire-fighting methods</b>	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Special protective equipment for fire-fighters</b>	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

	Product AS SOLD	Product AT USE DILUTION
<b>Personal precautions</b>	: Use personal protective equipment as required.	Use personal protective equipment as required.
<b>Environmental precautions</b>	: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.	Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
<b>Methods for cleaning up</b>	: Use a water rinse for final clean-up.	Use a water rinse for final clean-up.

## Section 7. Handling and storage

**Product AS SOLD**

**Handling** : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

**Storage** : Keep out of reach of children. Keep container tightly closed.

Store between the following temperatures: 0 and 50°C

**Product AT USE DILUTION**

Wash thoroughly after handling.

Keep out of reach of children.

## Section 8. Exposure controls/personal protection

### Control parameters

Ingredient name	Exposure limits
None.	

**Product AS SOLD**

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Personal protection**

**Eye protection** : No protective equipment is needed under normal use conditions.

**Hand protection** : No protective equipment is needed under normal use conditions.

**Skin protection** : No protective equipment is needed under normal use conditions.

**Respiratory protection** : A respirator is not needed under normal and intended conditions of product use.

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

**Product AT USE DILUTION**

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

No protective equipment is needed under normal use conditions.

No protective equipment is needed under normal use conditions.

No protective equipment is needed under normal use conditions.

A respirator is not needed under normal and intended conditions of product use.

## Section 9. Physical and chemical properties

**Product AS SOLD**

**Physical state** : Liquid.

**Color** : pink [Light]

**Odor** : Sweetish

**pH** : 7 to 10 (100%)

**Flash point** : >100 °C (Open cup)  
Product does not support combustion.

**Explosion limits** : Not available.

**Flammability (solid, gas)** : Not available.

**Melting point** : Not available.

**Boiling point** : >100°C (>212°F)

**Evaporation rate (butyl acetate = 1)** : Not available.

**Vapor pressure** : Not available.

**Vapor density** : Not available.

**Relative density** : 1.013 to 1.033 (Water = 1)

**Product AT USE DILUTION**

Liquid.

pink [Light]

Sweetish [Slight]

8.5 to 9 [Conc. (% w/w): 100%]

>100 °C (Closed cup)

## Section 9. Physical and chemical properties

<b>Solubility</b>	: Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: Not available.
<b>Auto-ignition temperature</b>	: Not available.
<b>Decomposition temperature</b>	: Not available.
<b>Odor threshold</b>	: Not available.
<b>Viscosity</b>	: Not available.

## Section 10. Stability and reactivity

### Product AS SOLD

<b>Stability</b>	: The product is stable.
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: No specific data.
<b>Materials to avoid</b>	: Not available.
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

**Route of exposure** : Skin contact, Eye contact, Inhalation, Ingestion

### Product AS SOLD

#### Symptoms

<b>Eye contact</b>	: Adverse symptoms may include the following: irritation watering redness
<b>Skin contact</b>	: No specific data.
<b>Inhalation</b>	: No specific data.
<b>Ingestion</b>	: No specific data.
<b>Acute toxicity</b>	
<b>Eye contact</b>	: Causes eye irritation.
<b>Skin contact</b>	: No known significant effects or critical hazards.
<b>Inhalation</b>	: No known significant effects or critical hazards.
<b>Ingestion</b>	: No known significant effects or critical hazards.

### Product AT USE DILUTION

No specific data.

No specific data.

No specific data.

No specific data.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

#### Toxicity data

##### Product/ingredient name

sulfonic acids, c14-16-alkane hydroxy and c14-16-alkene, sodium salts	LD50 Dermal	Rabbit	6300 mg/kg
sodium chloride	LD50 Oral	Rat	3983 mg/kg
	LC50 Inhalation	Rat	>10.5 mg/l
	Dusts and mists		
poly(oxy-1,2-ethanediyl), .alpha.-sulfo-	LD50 Dermal	Rabbit	>10000 mg/kg
	LD50 Oral	Rat	3000 mg/kg
	LD50 Dermal	Rat	>2000 mg/kg

## Section 11. Toxicological information

omega.-hydroxy-, c10-16-alkyl ethers,  
sodium salts

	LD50 Oral	Rat	>2500 mg/kg
amines, coco alkyldimethyl, n-oxides	LD50 Dermal	Rat	>2174 mg/kg
	LD50 Oral	Rat	846 mg/kg

### Chronic toxicity

**Carcinogenicity** : No known significant effects or critical hazards.  
**Mutagenicity** : No known significant effects or critical hazards.  
**Teratogenicity** : No known significant effects or critical hazards.  
**Developmental effects** : No known significant effects or critical hazards.  
**Fertility effects** : No known significant effects or critical hazards.

## Section 12. Ecological information

### Product AS SOLD

**Ecotoxicity** : This material is harmful to aquatic life.

### Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
sulfonic acids, c14-16-alkane hydroxy and c14-16-alkene, sodium salts	Acute LC50 4.2 mg/l	Fish	96 hours
sodium chloride	Acute LC50 5840 mg/l	Fish	96 hours
poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, c10-16-alkyl ethers, sodium salts	Acute LC50 28 mg/l	Fish	96 hours
amines, coco alkyldimethyl, n-oxides	Acute LC50 1 mg/l	Fish	96 hours

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : Diluted product can be flushed to sanitary sewer.  
Discard empty container in trash.

**Product AT USE DILUTION**  
Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

## Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

### DOT

DOT Classification : Not regulated.

### IMO/IMDG

IMO/IMDG Classification : Not regulated.

For transport in bulk, see shipping documents for specific transportation information.

**Product AT USE DILUTION**  
Not intended for transport.

## Section 15. Regulatory information

**Product AS SOLD**

**U.S. Federal regulations**

**TSCA 8(b) inventory** : All components are listed or exempted.

**SARA 302/304/311/312 extremely hazardous substances:** No listed substance

**SARA 302/304 emergency planning and notification:** No listed substance

**SARA 313** Product name CAS number Concentration

**Form R - Reporting requirements** : No listed substance

**California Prop. 65** : No listed substance

## Section 16. Other information

**Product AS SOLD**

**Hazardous Material Information System (U.S.A.)**

Health	1
Flammability	0
Physical hazards	0

**National Fire Protection Association (U.S.A.)**



**Product AT USE DILUTION**

Health	0
Flammability	0
Physical hazards	0



**Date of issue** : 30 Aug 2013  
**Prepared by** : Regulatory Affairs  
 1-800-352-5326

**Notice to reader**

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

# SAFETY DATA SHEET



PANTASTIC

## Section 1. Chemical product and company identification

**Product name** : PANTASTIC  
**Recommended use and restrictions** : Manual Warewashing Detergent  
Use only for the purpose on the product label.

**Product dilution information** : Up to 1.7 oz/10gals or 1.4 mL/L in water

**Supplier's information** : Ecolab Inc. Institutional Division  
370 N. Wabasha Street  
St. Paul, MN 55102  
1-800-352-5326

**Code** : 916228

**Date of issue** : 27 Mar 2013

EMERGENCY HEALTH INFORMATION: 1-800-328-0026  
Outside United States and Canada CALL 1-651-222-5352 (in USA)

## Section 2. Hazards identification

**GHS Classification** : **Product AS SOLD**  
: SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B  
AQUATIC TOXICITY (ACUTE) - Category 3

### GHS label elements

**Signal word** : Warning

**Hazard statements** : Causes eye irritation.  
Harmful to aquatic life.

### Precautionary statements

**Prevention** : Avoid release to the environment. Wash hands thoroughly after handling.

**Response** : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

**Storage** : No other specific measures identified.

**Disposal** : See section 13 for waste disposal information.

**Other hazards** : None known.

### **Product AT USE DILUTION**

Not classified.

No signal word.

No known significant effects or critical hazards.

Wash thoroughly after handling.

Get medical attention if symptoms appear.

No other specific measures identified.

See section 13 for waste disposal information.

None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

### **Product AS SOLD**

Hazardous ingredients	Concentration Range (%)	CAS number
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### Section 3. Composition/information on ingredients

SODIUM C14-16 OLEFIN SULFONATE	1 - 5	68439-57-6
SODIUM CHLORIDE	1 - 5	7647-14-5
poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, c10-16-alkyl ethers, sodium salts	1 - 5	68585-34-2
COCAMINE OXIDE	1 - 5	61788-90-7

#### Product AT USE DILUTION

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

### Section 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
<b>Eye contact</b>	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.	No known effect after eye contact. Rinse with water for a few minutes.
<b>Skin contact</b>	: No known effect after skin contact. Rinse with water for a few minutes.	No known effect after skin contact. Rinse with water for a few minutes.
<b>Inhalation</b>	: No special measures required. Treat symptomatically.	No special measures required. Treat symptomatically.
<b>Ingestion</b>	: Get medical attention if symptoms occur.	Get medical attention if symptoms occur.
<b>Protection of first-aiders</b>	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.	
<b>Notes to physician</b>	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	

See toxicological information (section 11)

### Section 5. Fire-fighting measures

#### Product AS SOLD

<b>Suitable fire extinguishing media</b>	: Use water spray, fog or foam.
<b>Specific hazards arising from the chemical</b>	: In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
<b>Hazardous thermal decomposition products</b>	: Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
<b>Specific fire-fighting methods</b>	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Special protective equipment for fire-fighters</b>	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

	Product AS SOLD	Product AT USE DILUTION
<b>Personal precautions</b>	: Use personal protective equipment as required.	Use personal protective equipment as required.
<b>Environmental precautions</b>	: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.	Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.



## Section 6. Accidental release measures

Methods for cleaning up : Use a water rinse for final clean-up.

Use a water rinse for final clean-up.

## Section 7. Handling and storage

**Product AS SOLD**

**Handling** : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

**Storage** : Keep out of reach of children. Keep container tightly closed.

Store between the following temperatures: 0 and 50°C

**Product AT USE DILUTION**

Wash thoroughly after handling.

Keep out of reach of children.

## Section 8. Exposure controls/personal protection

### Control parameters

Ingredient name	Exposure limits
None.	

**Product AS SOLD**

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Product AT USE DILUTION**

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### Personal protection

**Eye protection** : No protective equipment is needed under normal use conditions.

**Hand protection** : No protective equipment is needed under normal use conditions.

**Skin protection** : No protective equipment is needed under normal use conditions.

**Respiratory protection** : A respirator is not needed under normal and intended conditions of product use.

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

No protective equipment is needed under normal use conditions.

No protective equipment is needed under normal use conditions.

No protective equipment is needed under normal use conditions.

A respirator is not needed under normal and intended conditions of product use.

## Section 9. Physical and chemical properties

**Product AS SOLD**

**Physical state** : Liquid.

**Color** : Blue [Dark]

**Odor** : Floral

**pH** : 7.5 to 10 (100%)

**Flash point** : > 100°C

**Explosion limits** : Not available.

**Flammability (solid, gas)** : Not available.

**Melting point** : Not available.

**Boiling point** : >100°C (>212°F)

**Evaporation rate (butyl acetate = 1)** : Not available.

**Vapor pressure** : Not available.

**Product AT USE DILUTION**

Liquid.

Blue [Light]

Floral

6.64 to 7.15

> 100°C

## Section 9. Physical and chemical properties

<b>Vapor density</b>	: Not available.
<b>Relative density</b>	: 1.028 to 1.048 (Water = 1)
<b>Solubility</b>	: Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: Not available.
<b>Auto-ignition temperature</b>	: Not available.
<b>Decomposition temperature</b>	: Not available.
<b>Odor threshold</b>	: Not available.
<b>Viscosity</b>	: Not available.

## Section 10. Stability and reactivity

### Product AS SOLD

<b>Stability</b>	: The product is stable.
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: No specific data.
<b>Materials to avoid</b>	: Not available.
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

**Route of exposure** : Skin contact, Eye contact, Inhalation, Ingestion

### Product AS SOLD

#### Symptoms

<b>Eye contact</b>	: Adverse symptoms may include the following: irritation watering redness
<b>Skin contact</b>	: No specific data.
<b>Inhalation</b>	: No specific data.
<b>Ingestion</b>	: No specific data.
<b><u>Acute toxicity</u></b>	
<b>Eye contact</b>	: Causes eye irritation.
<b>Skin contact</b>	: No known significant effects or critical hazards.
<b>Inhalation</b>	: No known significant effects or critical hazards.
<b>Ingestion</b>	: No known significant effects or critical hazards.

### Product AT USE DILUTION

No specific data.

No specific data.

No specific data.

No specific data.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

#### Toxicity data

Product/ingredient name	Result	Species	Dose
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## Section 11. Toxicological information

sulfonic acids, c14-16-alkane hydroxy and c14-16-alkene, sodium salts	LD50 Dermal	Rabbit	6300 mg/kg
sodium chloride	LD50 Oral	Rat	3983 mg/kg
	LC50 Inhalation Dusts and mists	Rat	>10.5 mg/l
	LD50 Dermal	Rabbit	>10000 mg/kg
poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, c10-16-alkyl ethers, sodium salts	LD50 Oral	Rat	3000 mg/kg
	LD50 Dermal	Rat	>2000 mg/kg
	LD50 Oral	Rat	>2500 mg/kg
amines, coco alkyldimethyl, n-oxides	LD50 Dermal	Rat	>2174 mg/kg
	LD50 Oral	Rat	846 mg/kg
	LD50 Oral	Rat	846 mg/kg

### Chronic toxicity

<b>Carcinogenicity</b>	: No known significant effects or critical hazards.
<b>Mutagenicity</b>	: No known significant effects or critical hazards.
<b>Teratogenicity</b>	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
<b>Fertility effects</b>	: No known significant effects or critical hazards.

## Section 12. Ecological information

### Product AS SOLD

**Ecotoxicity** : This material is harmful to aquatic life.

### Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
sulfonic acids, c14-16-alkane hydroxy and c14-16-alkene, sodium salts	Acute LC50 4.2 mg/l	Fish	96 hours
sodium chloride	Acute LC50 5840 mg/l	Fish	96 hours
poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, c10-16-alkyl ethers, sodium salts	Acute LC50 28 mg/l	Fish	96 hours
amines, coco alkyldimethyl, n-oxides	Acute LC50 <1 mg/l	Fish	96 hours

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

### Product AT USE DILUTION

Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

## Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

### DOT

**DOT Classification** : Not regulated.

### IMO/IMDG

**IMO/IMDG Classification** : Not regulated.

For transport in bulk, see shipping documents for specific transportation information.

## Section 14. Transport information

**Product AT USE DILUTION**

Not intended for transport.

## Section 15. Regulatory information

**Product AS SOLD**

**U.S. Federal regulations**

**TSCA 8(b) inventory** : All components are listed or exempted.

**SARA 302/304/311/312 extremely hazardous substances:** No listed substance

**SARA 302/304 emergency planning and notification:** No listed substance

**SARA 313** Product name CAS number Concentration

**Form R - Reporting requirements** : No listed substance

**California Prop. 65** : No listed substance

## Section 16. Other information

**Product AS SOLD**

**Hazardous Material Information System (U.S.A.)** :

Health	1
Flammability	0
Physical hazards	0

**National Fire Protection Association (U.S.A.)** :



**Product AT USE DILUTION**

Health	0
Flammability	0
Physical hazards	0



**Date of issue** : 27 Mar 2013  
**Prepared by** : Regulatory Affairs  
 1-800-352-5326

**Notice to reader**

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, **NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.**

# SAFETY DATA SHEET

**ECOLAB®**

SILVER POWER

## Section 1. Chemical product and company identification

**Product name** : SILVER POWER**Recommended use and restrictions** : Presoak

Use only for the purpose on the product label.

**Product dilution information** : Up to 0.6 oz/gal or 4.7 mL/L in water**Supplier's information** : Ecolab Inc. Institutional Division  
370 N. Wabasha Street  
St. Paul, MN 55102  
1-800-352-5326**Code** : 961870**Date of issue** : 06 Sep 2013EMERGENCY HEALTH INFORMATION: 1-800-328-0026  
Outside United States and Canada CALL 1-651-222-5352 (in USA)

## Section 2. Hazards identification

**Product AS SOLD****GHS Classification** : SKIN CORROSION/IRRITATION - Category 2  
SERIOUS EYE DAMAGE/ EYE IRRITATION -  
Category 2A**GHS label elements****Signal word** : Warning**Symbol** :**Hazard statements** : Causes serious eye irritation.  
Causes skin irritation.**Precautionary statements****Prevention** : Wash thoroughly after handling.**Response** : IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.**Storage** : No other specific measures identified.**Disposal** : See section 13 for waste disposal information.**Other hazards** : None known.**Product AT USE DILUTION**

Not classified.

No signal word.

No known significant effects or critical hazards.

Wash thoroughly after handling.

Get medical attention if symptoms appear.

No other specific measures identified.

See section 13 for waste disposal information.

None known.

### Section 3. Composition/information on ingredients

Substance/mixture : Mixture

#### Product AS SOLD

Hazardous ingredients	Concentration Range (%)	CAS number
SODIUM HYDROXIDE	1	1310-73-2
SODIUM CARBONATE	>50	497-19-8
alcohols, c12-16, ethoxylated	1 - 5	68551-12-2
sodium isononanoate	1 - 5	84501-72-4
TRISODIUM HEDTA	1 - 5	139-89-9

#### Product AT USE DILUTION

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

### Section 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
<b>Eye contact</b>	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.	No known effect after eye contact. Rinse with water for a few minutes.
<b>Skin contact</b>	: Take off contaminated clothing. Wash with plenty of soap and water. Get medical attention if irritation persists. Wash clothing before reuse. Clean shoes thoroughly before reuse.	No known effect after skin contact. Rinse with water for a few minutes.
<b>Inhalation</b>	: No special measures required. Treat symptomatically.	No special measures required. Treat symptomatically.
<b>Ingestion</b>	: Get medical attention if symptoms occur.	Get medical attention if symptoms occur.
<b>Protection of first-aiders</b>	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.	
<b>Notes to physician</b>	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.	

See toxicological information (section 11)

### Section 5. Fire-fighting measures

#### Product AS SOLD

<b>Suitable fire extinguishing media</b>	: Use water spray, fog or foam.
<b>Specific hazards arising from the chemical</b>	: No specific fire or explosion hazard.
<b>Hazardous thermal decomposition products</b>	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides
<b>Specific fire-fighting methods</b>	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Special protective equipment for fire-fighters</b>	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

	<b>Product AS SOLD</b>
<b>Personal precautions</b>	: Use personal protective equipment as required.
<b>Environmental precautions</b>	: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
<b>Methods for cleaning up</b>	: Collect spillage. Use a water rinse for final clean-up.

### Product AT USE DILUTION

Use personal protective equipment as required.  
 Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.  
 Use a water rinse for final clean-up.

## Section 7. Handling and storage

	<b>Product AS SOLD</b>
<b>Handling</b>	: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
<b>Storage</b>	: Keep out of reach of children. Keep container tightly closed.  Store between the following temperatures: 0 and 40°C

### Product AT USE DILUTION

Wash thoroughly after handling.  
  
Keep out of reach of children.

## Section 8. Exposure controls/personal protection

### Control parameters

Ingredient name	Exposure limits
SODIUM HYDROXIDE	<b>ACGIH TLV (United States, 3/2012).</b> C: 2 mg/m <sup>3</sup> <b>OSHA PEL (United States, 6/2010).</b> TWA: 2 mg/m <sup>3</sup> 8 hours. <b>NIOSH REL (United States, 6/2009).</b> CEIL: 2 mg/m <sup>3</sup>

	<b>Product AS SOLD</b>	<b>Product AT USE DILUTION</b>
<b>Appropriate engineering controls</b>	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
<b>Personal protection</b>		
<b>Eye protection</b>	: Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
<b>Hand protection</b>	: Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
<b>Skin protection</b>	: No protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
<b>Respiratory protection</b>	: A respirator is not needed under normal and intended conditions of product use.	A respirator is not needed under normal and intended conditions of product use.
<b>Hygiene measures</b>	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.	

## Section 9. Physical and chemical properties

Product AS SOLD	
<b>Physical state</b>	: Cast Solid
<b>Color</b>	: Blue [Dark]
<b>Odor</b>	: citrus
<b>pH</b>	: 10.5 (1%)
<b>Flash point</b>	: > 100°C Product does not support combustion.
<b>Explosion limits</b>	: Not available.
<b>Flammability (solid, gas)</b>	: Not available.
<b>Melting point</b>	: Not available.
<b>Boiling point</b>	: Not available.
<b>Evaporation rate (butyl acetate = 1)</b>	: Not available.
<b>Vapor pressure</b>	: Not available.
<b>Vapor density</b>	: Not available.
<b>Relative density</b>	: 1.3 (Water = 1)
<b>Solubility</b>	: Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: Not available.
<b>Auto-ignition temperature</b>	: Not available.
<b>Decomposition temperature</b>	: Not available.
<b>Odor threshold</b>	: Not available.
<b>Viscosity</b>	: Not available.

### Product AT USE DILUTION

Liquid.  
Blue [Light]  
citrus  
10.5 to 11.5  
> 100°C

## Section 10. Stability and reactivity

Product AS SOLD	
<b>Stability</b>	: The product is stable.
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: No specific data.
<b>Materials to avoid</b>	: Slightly reactive or incompatible with the following materials: acids.
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

**Route of exposure** : Skin contact, Eye contact, Ingestion

### Product AS SOLD

#### Symptoms

<b>Eye contact</b>	: Adverse symptoms may include the following: pain or irritation watering redness
<b>Skin contact</b>	: Adverse symptoms may include the following: irritation redness

### Product AT USE DILUTION

No specific data.  
  
No specific data.



## Section 11. Toxicological information

**Inhalation** : No specific data.  
**Ingestion** : No specific data.  
**Acute toxicity**  
**Eye contact** : Causes serious eye irritation.  
**Skin contact** : Causes skin irritation.  
**Inhalation** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

No specific data.  
 No specific data.  
 No known significant effects or critical hazards.  
 No known significant effects or critical hazards.  
 No known significant effects or critical hazards.  
 No known significant effects or critical hazards.

### Toxicity data

#### Product/ingredient name

sodium carbonate	LC50 Inhalation Dusts and mists	Rat	1.15 mg/l
	LD50 Dermal	Rabbit	>2000 mg/kg
	LD50 Oral	Rat	2800 mg/kg
alcohols, c12-16, ethoxylated	LD50 Dermal	Rabbit	>2000 mg/kg
	LD50 Oral	Rat	1100 mg/kg
sodium isononanoate	LD50 Dermal	Rat	>2000 mg/kg
	LD50 Oral	Rat	1160 mg/kg
glycine, n-[2-[bis(carboxymethyl)amino]ethyl]-n-(2-hydroxyethyl)-, trisodium salt	LD50 Oral	Rat	10000 mg/kg

### Chronic toxicity

**Carcinogenicity** : No known significant effects or critical hazards.  
**Mutagenicity** : No known significant effects or critical hazards.  
**Teratogenicity** : No known significant effects or critical hazards.  
**Developmental effects** : No known significant effects or critical hazards.  
**Fertility effects** : No known significant effects or critical hazards.

## Section 12. Ecological information

### Product AS SOLD

**Ecotoxicity** : This material is harmful to aquatic life.

### Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
sodium carbonate	Acute EC50 200 mg/l	Daphnia	48 hours
alcohols, c12-16, ethoxylated	Acute LC50 1.5 mg/l	Fish	96 hours
sodium isononanoate	Acute LC50 160 mg/l	Fish	96 hours
glycine, n-[2-[bis(carboxymethyl)amino]ethyl]-n-(2-hydroxyethyl)-, trisodium salt	Chronic EC50 >500 mg/l	Daphnia	48 hours
sodium hydroxide	Acute EC50 40 mg/l	Daphnia	48 hours

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

### Product AS SOLD

**Disposal methods** : Diluted product can be flushed to sanitary sewer.  
 Discard empty container in trash.

### Product AT USE DILUTION

Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

## Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

**DOT**

DOT Classification : Not regulated.

**IMO/IMDG**

IMO/IMDG Classification : Not regulated.

For transport in bulk, see shipping documents for specific transportation information.

**Product AT USE DILUTION**

Not intended for transport.

## Section 15. Regulatory information

Product AS SOLD

**U.S. Federal regulations**

TSCA 8(b) inventory : All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No listed substance

SARA 302/304 emergency planning and notification: No listed substance

**SARA 313** : Product name CAS number Concentration

Form R - Reporting requirements : No listed substance

**California Prop. 65** : No listed substance

## Section 16. Other information

Product AS SOLD

Hazardous Material Information System (U.S.A.) :

Health	2
Flammability	0
Physical hazards	0

National Fire Protection Association (U.S.A.) :



Product AT USE DILUTION

Health	0
Flammability	0
Physical hazards	0



Date of issue : 06 Sep 2013  
 Prepared by : Regulatory Affairs  
 1-800-352-5326

Notice to reader

**Section 16. Other information**

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : ECO SHINE

Other means of identification : Not applicable

Recommended use : Metal polish

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : Product is sold ready to use.

Company : Ecolab Inc.  
370 N. Wabasha Street  
St. Paul, Minnesota USA 55102  
1-800-352-5326

Emergency telephone : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date : 09/18/2014

**SECTION 2. HAZARDS IDENTIFICATION**
**GHS Classification**

Serious eye damage : Category 1

**GHS Label element**

Hazard pictograms :



Signal Word : Danger

Hazard Statements : Causes serious eye damage.

Precautionary Statements : **Prevention:**  
Wear eye protection/ face protection.  
**Response:**  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER or doctor/ physician.

Other hazards : None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
alcohol ethoxylate	68551-12-2	10 - 30
white mineral oil, petroleum	8042-47-5	5 - 10
Fattyalcohol ethoxylates > 5EO	68131-39-5	1 - 5

**SECTION 4. FIRST AID MEASURES**

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at

# SAFETY DATA SHEET

## ECO SHINE

least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

- In case of skin contact : Rinse with plenty of water.
- If swallowed : Rinse mouth. Get medical attention if symptoms occur.
- If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.
- Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Notes to physician : Treat symptomatically.

**See toxicological information (Section 11)**

### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Not flammable or combustible.
- Hazardous combustion products : Decomposition products may include the following materials:  
Carbon oxides  
Nitrogen oxides (NOx)  
Sulfur oxides  
Oxides of phosphorus
- Special protective equipment for fire-fighters : Use personal protective equipment.
- Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not allow contact with soil, surface or ground water.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

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**ECO SHINE**

## SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling.
- Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.
- Storage temperature : 0 °C to 50 °C

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
white mineral oil, petroleum	8042-47-5	TWA (Mist)	5 mg/m <sup>3</sup>	NIOSH REL
		STEL (Mist)	10 mg/m <sup>3</sup>	NIOSH REL
		TWA (Mist)	5 mg/m <sup>3</sup>	OSHA Z1

- Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

### Personal protective equipment

- Eye protection : Safety goggles  
Face-shield
- Hand protection : No special protective equipment required.
- Skin protection : No special protective equipment required.
- Respiratory protection : No personal respiratory protective equipment normally required.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Color : yellow
- Odor : slight
- pH : 7.5, 100 %
- Flash point : Not applicable
- Odor Threshold : No data available
- Melting point/freezing point : No data available
- Initial boiling point and boiling range : > 100 °C
- Evaporation rate : No data available
- Flammability (solid, gas) : No data available

# SAFETY DATA SHEET

## ECO SHINE

Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapor pressure	: No data available
Relative vapor density	: No data available
Relative density	: 0.986
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Molecular weight	: No data available
VOC	: No data available

## SECTION 10. STABILITY AND REACTIVITY

Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: None known.
Incompatible materials	: None known.
Hazardous decomposition products	: Decomposition products may include the following materials: Carbon oxides Nitrogen oxides (NOx) Sulfur oxides Oxides of phosphorus

## SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

### Potential Health Effects

Eyes	: Causes serious eye damage.
Skin	: Health injuries are not known or expected under normal use.
Ingestion	: Health injuries are not known or expected under normal use.
Inhalation	: Health injuries are not known or expected under normal use.
Chronic Exposure	: Health injuries are not known or expected under normal use.

### Experience with human exposure

# SAFETY DATA SHEET

## ECO SHINE

- Eye contact : Redness, Pain, Corrosion
- Skin contact : No symptoms known or expected.
- Ingestion : No symptoms known or expected.
- Inhalation : No symptoms known or expected.

### Toxicity

- Acute oral toxicity : Acute toxicity estimate > 5,000 mg/kg
- Acute inhalation toxicity : No data available
- Acute dermal toxicity : No data available
- Skin corrosion/irritation : No data available
- Serious eye damage/eye irritation : No data available
- Respiratory or skin sensitization : No data available
- Carcinogenicity : No data available
- Reproductive effects : No data available
- Germ cell mutagenicity : No data available
- Teratogenicity : No data available
- STOT-single exposure : No data available
- STOT-repeated exposure : No data available
- Aspiration toxicity : No data available

### Ingredients

- Acute dermal toxicity : alcohol ethoxylate  
LD50 Rabbit > 2,000 mg/kg
- Fattyalcohol ethoxylates > 5EO  
LD50 Rat > 2,000 mg/kg

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

- Environmental Effects : Harmful to aquatic life.

### Product

- Toxicity to fish : No data available
- Toxicity to daphnia and other aquatic invertebrates : No data available
- Toxicity to algae : No data available

### Ingredients

- Toxicity to fish : alcohol ethoxylate  
96 h LC50 Fish: 1.5 mg/l
- white mineral oil, petroleum



# SAFETY DATA SHEET

## ECO SHINE

96 h LC50 Fish: > 100 mg/l

Fattyalcohol ethoxylates > 5EO  
96 h LC50 Fish: 1.4 mg/l

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal methods** : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

**Disposal considerations** : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

## SECTION 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

### Land transport (DOT)

Not dangerous goods

### Sea transport (IMDG/IMO)

Not dangerous goods

## SECTION 15. REGULATORY INFORMATION

### EPCRA - Emergency Planning and Community Right-to-Know

#### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Acute Health Hazard

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

# SAFETY DATA SHEET

## ECO SHINE

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**California Prop 65**

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

**The ingredients of this product are reported in the following inventories:**

**United States TSCA Inventory :**

On TSCA Inventory

**Canadian Domestic Substances List (DSL) :**

All components of this product are on the Canadian DSL.

**Australia Inventory of Chemical Substances (AICS) :**

On the inventory, or in compliance with the inventory

**New Zealand. Inventory of Chemical Substances :**

On the inventory, or in compliance with the inventory

**Japan. ENCS - Existing and New Chemical Substances Inventory :**

On the inventory, or in compliance with the inventory

**Japan. ISHL - Inventory of Chemical Substances (METI) :**

On the inventory, or in compliance with the inventory

**Korea. Korean Existing Chemicals Inventory (KECI) :**

On the inventory, or in compliance with the inventory

**Philippines Inventory of Chemicals and Chemical Substances (PICCS) :**

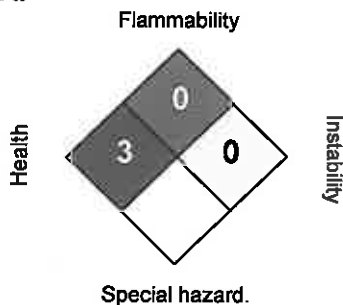
On the inventory, or in compliance with the inventory

**China. Inventory of Existing Chemical Substances in China (IECSC) :**

On the inventory, or in compliance with the inventory

### SECTION 16. OTHER INFORMATION

**NFPA:**



**HMIS III:**

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

Issuing date : 09/18/2014  
Version : 1.0  
Prepared by : Regulatory Affairs

# SAFETY DATA SHEET

## ECO SHINE

**REVISED INFORMATION:** Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

# SAFETY DATA SHEET



## STAINLESS STEEL CLEANER & POLISH

### Section 1. Chemical product and company identification

**Product name** : STAINLESS STEEL CLEANER & POLISH

**Recommended use and restrictions** : Metal Polish

Use only for the purpose on the product label.

**Product dilution information** : Not applicable

**Supplier's information** : Ecolab Inc. Institutional Division  
370 N. Wabasha Street  
St. Paul, MN 55102  
1-800-352-5326

**Code** : 900096-03

**Date of issue** : 28 Feb 2013

EMERGENCY HEALTH INFORMATION: 1-800-328-0026  
Outside United States and Canada CALL 1-651-222-5352 (in USA)

### Section 2. Hazards identification

**GHS Classification** : **Product AS SOLD**  
FLAMMABLE AEROSOLS - Category 2  
GASES UNDER PRESSURE - Compressed gas  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Narcotic effects] - Category 3

#### GHS label elements

**Signal word** : Warning

**Symbol** : 

**Hazard statements** : Flammable aerosol.  
Contains gas under pressure; may explode if heated.  
May cause drowsiness and dizziness.

#### Precautionary statements

**Prevention** : Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Pressurized container: Do not pierce or burn, even after use. Use only outdoors or in a well-ventilated area. Avoid breathing vapor.

**Response** : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

**Storage** : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place.

#### **Product AT USE DILUTION**

Product is sold ready to use.

## Section 2. Hazards identification

**Disposal** : See section 13 for waste disposal information.

**Other hazards** : None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

**Product AS SOLD**

Hazardous ingredients	Concentration Range (%)	CAS number
white mineral oil, petroleum	5 - 20	8042-47-5
BUTANE	5 - 20	106-97-8
PROPANE	1 - 5	74-98-6
solvent naphtha (petroleum), medium aliph.	1 - 5	64742-88-7

**Product AT USE DILUTION**

Hazardous ingredients	Concentration Range (%)	CAS number
Product is sold ready to use.		

## Section 4. First aid measures

**Product AS SOLD**

**Eye contact** : No known effect after eye contact. Rinse with water for a few minutes.

**Skin contact** : No known effect after skin contact. Rinse with water for a few minutes.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if you feel unwell.

**Ingestion** : Get medical attention if symptoms occur.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See toxicological information (section 11)

**Product AT USE DILUTION**

Product is sold ready to use.

## Section 5. Fire-fighting measures

**Product AS SOLD**

**Suitable fire extinguishing media** : Use water spray, fog or foam.

**Specific hazards arising from the chemical** : Flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide

**Specific fire-fighting methods** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Special protective equipment for fire-fighters** :

## Section 5. Fire-fighting measures

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

	<b>Product AS SOLD</b>
<b>Personal precautions</b>	: Use personal protective equipment as required.
<b>Environmental precautions</b>	: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
<b>Methods for cleaning up</b>	: Use a water rinse for final clean-up.

### Product AT USE DILUTION

Product is sold ready to use.

## Section 7. Handling and storage

	<b>Product AS SOLD</b>
<b>Handling</b>	: Store and use away from heat, sparks, open flame or any other ignition source. Liquid and vapor under pressure. Do not puncture, incinerate or store the container at temperatures above 49°C (120°F) or in direct sunlight. Use only with adequate ventilation. Wash thoroughly after handling.
<b>Storage</b>	: Keep out of reach of children. Keep container tightly closed and sealed until ready for use. Keep container in a cool, well-ventilated area. Avoid all possible sources of ignition (spark or flame). Do not puncture or incinerate container. Store between the following temperatures: 5 and 45°C

### Product AT USE DILUTION

Product is sold ready to use.

## Section 8. Exposure controls/personal protection

### Control parameters

Ingredient name	Exposure limits
white mineral oil, petroleum	<b>ACGIH TLV (United States, 3/2012).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction
BUTANE	<b>NIOSH REL (United States, 6/2009).</b> TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Mist <b>STEL: 10 mg/m<sup>3</sup> 15 minutes. Form: Mist</b> <b>OSHA PEL (United States, 6/2010).</b> TWA: 5 mg/m <sup>3</sup> 8 hours.
PROPANE	<b>ACGIH TLV (United States, 3/2012).</b> TWA: 1000 ppm 8 hours. <b>NIOSH REL (United States, 6/2009).</b> TWA: 800 ppm 10 hours. TWA: 1900 mg/m <sup>3</sup> 10 hours. <b>ACGIH TLV (United States, 3/2012).</b> TWA: 1000 ppm 8 hours. <b>OSHA PEL (United States, 6/2010).</b> TWA: 1800 mg/m <sup>3</sup> 8 hours. TWA: 1000 ppm 8 hours. <b>NIOSH REL (United States, 6/2009).</b> TWA: 1000 ppm 10 hours.

## Section 8. Exposure controls/personal protection

solvent naphtha (petroleum), medium aliph.

TWA: 1800 mg/m<sup>3</sup> 10 hours.  
**OSHA PEL (United States, 6/2010).**  
 TWA: 100 ppm 8 hours.  
 TWA: 400 mg/m<sup>3</sup> 8 hours.

	<b>Product AS SOLD</b>	<b>Product AT USE DILUTION</b>
<b>Appropriate engineering controls</b>	: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.	Product is sold ready to use.
<b>Personal protection</b>		
<b>Eye protection</b>	: No protective equipment is needed under normal use conditions.	
<b>Hand protection</b>	: No protective equipment is needed under normal use conditions.	
<b>Skin protection</b>	: No protective equipment is needed under normal use conditions.	
<b>Respiratory protection</b>	: A respirator is not needed under normal and intended conditions of product use.	
<b>Hygiene measures</b>	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.	

## Section 9. Physical and chemical properties

	<b>Product AS SOLD</b>	<b>Product AT USE DILUTION</b>
<b>Physical state</b>	: Aerosol	Product is sold ready to use.
<b>Color</b>	: White	
<b>Odor</b>	: citrus	
<b>pH</b>	: Not applicable	
<b>Flash point</b>	: Not applicable	
<b>Explosion limits</b>	: Lower: 1.8% Upper: 9.5%	
<b>Flammability (solid, gas)</b>	: Not available.	
<b>Melting point</b>	: Not available.	
<b>Boiling point</b>	: >100°C (>212°F)	
<b>Evaporation rate (butyl acetate = 1)</b>	: Not available.	
<b>Vapor pressure</b>	: Not available.	
<b>Vapor density</b>	: Not available.	
<b>Relative density</b>	: 0.951 to 0.951 (Water = 1)	
<b>Solubility</b>	: Soluble in the following materials: cold water and hot water.	
<b>Partition coefficient: n-octanol/water</b>	: Not available.	

## Section 9. Physical and chemical properties

- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Odor threshold** : Not available.
- Viscosity** : Not available.

### Aerosol product

- Type of aerosol** : Spray
- Heat of combustion** : 6.246 kJ/g
- Ignition distance** : 0 cm
- Flame height** : Not available.
- Flame duration** : Not available.

## Section 10. Stability and reactivity

### Product AS SOLD

- Stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : Avoid all possible sources of ignition (spark or flame).
- Materials to avoid** : Highly reactive or incompatible with the following materials: oxidizing materials.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

- Route of exposure** : Skin contact, Eye contact, Inhalation, Ingestion

### Product AS SOLD

#### Symptoms

- Eye contact** : No specific data.
- Skin contact** : No specific data.
- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness
- Ingestion** : No specific data.

#### Acute toxicity

- Eye contact** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.
- Ingestion** : Can cause central nervous system (CNS) depression.

#### Toxicity data

Product/ingredient name	Result	Species	Dose
-------------------------	--------	---------	------

### Product AT USE DILUTION

Product is sold ready to use.



## Section 11. Toxicological information

white mineral oil, petroleum	LC50 Inhalation Dusts and mists	Rat	>5.2 mg/l
	LD50 Dermal	Rabbit	>2000 mg/kg
	LD50 Oral	Rat	>5000 mg/kg
butane	LC50 Inhalation Gas.	Rat	280000 ppm
solvent naphtha (petroleum), medium aliph.	LD50 Dermal	Rabbit	>2000 mg/kg
	LD50 Oral	Rat	>5000 mg/kg

### Chronic toxicity

<b>Carcinogenicity</b>	: No known significant effects or critical hazards.
<b>Mutagenicity</b>	: No known significant effects or critical hazards.
<b>Teratogenicity</b>	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
<b>Fertility effects</b>	: No known significant effects or critical hazards.

## Section 12. Ecological information

### Product AS SOLD

**Ecotoxicity** : No known significant effects or critical hazards.

### Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
white mineral oil, petroleum	Acute LC50 <100 mg/l	Fish	96 hours
butane	Acute LC50 22.03 mg/l	Fish	96 hours
solvent naphtha (petroleum), medium aliph.	Acute LC50 800 mg/l	Fish	96 hours

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

### Product AS SOLD

**Disposal methods** : Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations. Do not puncture or incinerate container. Discard empty container in trash.

**RCRA classification** : Unused product is D001 (Ignitable)

### Product AT USE DILUTION

Product is sold ready to use.

## Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

### DOT

<b>DOT Classification</b>	UN1950
<b>DOT Proper shipping name</b>	Aerosols
<b>Class</b>	2.1
<b>Packing group</b>	-

### IMO/IMDG

<b>IMO/IMDG Classification</b>	UN1950
<b>IMO/IMDG Proper shipping name</b>	AEROSOLS
<b>Class</b>	2.1
<b>Packing group</b>	-

For transport in bulk, see shipping documents for specific transportation information.

## Section 14. Transport information

### Product AT USE DILUTION

Not intended for transport.

## Section 15. Regulatory information

### Product AS SOLD

#### U.S. Federal regulations

**TSCA 8(b) inventory** : All components are listed or exempted.

**SARA 302/304/311/312 extremely hazardous substances:** No listed substance

**SARA 302/304 emergency planning and notification:** No listed substance

**SARA 313** Product name CAS number Concentration

**Form R - Reporting requirements** : No listed substance

**California Prop. 65** : No listed substance

## Section 16. Other information

### Product AS SOLD

#### Hazardous Material Information System (U.S.A.)

Health	1
Flammability	2
Physical hazards	0

**National Fire Protection Association (U.S.A.)** :



**NFPA Aerosol Level** : Level 1

**Date of issue** : 28 Feb 2013

**Prepared by** : Regulatory Affairs  
1-800-352-5326

#### Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : GREASELIFT RTU

Other means of identification : Not applicable

Recommended use : Degreaser

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : Product is sold ready to use.

Company : Ecolab Inc.  
370 N. Wabasha Street  
St. Paul, Minnesota USA 55102  
1-800-352-5326

Emergency telephone : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date : 04/02/2015

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Eye irritation : Category 2B

**GHS Label element**

Signal Word : Warning

Hazard Statements : Causes eye irritation.

Precautionary Statements : **Prevention:**  
Wash skin thoroughly after handling.  
**Response:**  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.

Other hazards : None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
Benzyl alcohol	100-51-6	5 - 10
monoethanolamine	141-43-5	1 - 5
benzenesulfonic acid, dodecyl-, compd. with 2-aminoethanol (1:1)	26836-07-7	1 - 5

**SECTION 4. FIRST AID MEASURES**

In case of eye contact : Rinse with plenty of water.

In case of skin contact : Rinse with plenty of water.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

# SAFETY DATA SHEET

## GREASELIFT RTU

- If inhaled : Get medical attention if symptoms occur.
- Protection of first-aiders : No special precautions are necessary for first aid responders.
- Notes to physician : Treat symptomatically.
- Most important symptoms and effects, both acute and delayed : See Section 11 for more detailed information on health effects and symptoms.

### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Not flammable or combustible.
- Hazardous combustion products : Decomposition products may include the following materials:  
Carbon oxides  
Nitrogen oxides (NOx)  
Sulfur oxides  
Oxides of phosphorus
- Special protective equipment for fire-fighters : Use personal protective equipment.
- Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not allow contact with soil, surface or ground water.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

### SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Wash hands thoroughly after handling.
- Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.
- Storage temperature : 0 °C to 50 °C

# SAFETY DATA SHEET

## GREASELIFT RTU

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
Benzyl alcohol	100-51-6	TWA	10 ppm	WEEL
monoethanolamine	141-43-5	TWA	3 ppm	ACGIH
		STEL	6 ppm	ACGIH
		TWA	3 ppm 8 mg/m <sup>3</sup>	NIOSH REL
		STEL	6 ppm 15 mg/m <sup>3</sup>	NIOSH REL
		TWA	3 ppm 6 mg/m <sup>3</sup>	OSHA Z1

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Personal protective equipment

Eye protection : No special protective equipment required.

Hand protection : No special protective equipment required.

Skin protection : No special protective equipment required.

Respiratory protection : No personal respiratory protective equipment normally required.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : clear, orange

Odor : odorless

pH : 10.5 - 10.9, 100 %

Flash point : Not applicable

Odor Threshold : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling range : > 100 °C

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : 1.007 - 1.015

# SAFETY DATA SHEET

## GREASELIFT RTU

Water solubility	: soluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Molecular weight	: No data available
VOC	: No data available

## SECTION 10. STABILITY AND REACTIVITY

Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: None known.
Incompatible materials	: Acids
Hazardous decomposition products	: Decomposition products may include the following materials: Carbon oxides Nitrogen oxides (NOx) Sulfur oxides Oxides of phosphorus

## SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

### Potential Health Effects

Eyes	: Causes eye irritation.
Skin	: Health injuries are not known or expected under normal use.
Ingestion	: Health injuries are not known or expected under normal use.
Inhalation	: Health injuries are not known or expected under normal use.
Chronic Exposure	: Health injuries are not known or expected under normal use.

### Experience with human exposure

Eye contact	: Redness, Irritation
Skin contact	: No symptoms known or expected.
Ingestion	: No symptoms known or expected.

# SAFETY DATA SHEET

## GREASELIFT RTU

Inhalation : No symptoms known or expected.

### Toxicity

Acute oral toxicity : Acute toxicity estimate > 5,000 mg/kg  
Acute inhalation toxicity : 4 h Acute toxicity estimate : > 10 mg/l  
Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg  
Skin corrosion/irritation : No skin irritation  
Serious eye damage/eye irritation : Mild eye irritation  
Respiratory or skin sensitization : No data available  
Carcinogenicity : No data available  
Reproductive effects : No data available  
Germ cell mutagenicity : No data available  
Teratogenicity : No data available  
STOT-single exposure : No data available  
STOT-repeated exposure : No data available  
Aspiration toxicity : No data available

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Environmental Effects : This product has no known ecotoxicological effects.

### Product

Toxicity to fish : No data available  
Toxicity to daphnia and other aquatic invertebrates : No data available  
Toxicity to algae : No data available

### Ingredients

Toxicity to fish : Benzyl alcohol  
96 h LC50 Fish: > 100 mg/l

### Ingredients

Toxicity to daphnia and other aquatic invertebrates : monoethanolamine  
48 h EC50 Daphnia: 65 mg/l

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

# SAFETY DATA SHEET

## GREASELIFT RTU

No data available

### SECTION 13. DISPOSAL CONSIDERATIONS

- Disposal methods : Diluted product can be flushed to sanitary sewer.
- Disposal considerations : Dispose of in accordance with local, state, and federal regulations.

### SECTION 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

#### Land transport (DOT)

Not dangerous goods

#### Sea transport (IMDG/IMO)

Not dangerous goods

### SECTION 15. REGULATORY INFORMATION

#### EPCRA - Emergency Planning and Community Right-to-Know

##### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

##### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

#### The ingredients of this product are reported in the following inventories:

1907/2006 (EU) :  
not determined

United States TSCA Inventory :  
On TSCA Inventory

Canadian Domestic Substances List (DSL) :  
This product contains one or several components listed in the Canadian NDSL.

Australia Inventory of Chemical Substances (AICS) :  
On the inventory, or in compliance with the inventory



# SAFETY DATA SHEET

## GREASELIFT RTU

**New Zealand. Inventory of Chemical Substances :**  
On the inventory, or in compliance with the inventory

**Japan. ENCS - Existing and New Chemical Substances Inventory :**  
On the inventory, or in compliance with the inventory

**Japan. ISHL - Inventory of Chemical Substances (METI) :**  
not determined

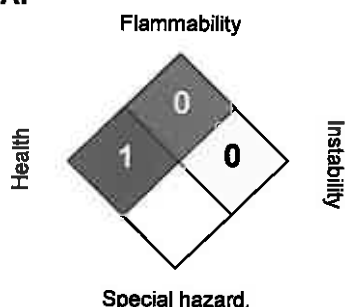
**Korea. Korean Existing Chemicals Inventory (KECI) :**  
not determined

**Philippines Inventory of Chemicals and Chemical Substances (PICCS) :**  
not determined

**China. Inventory of Existing Chemical Substances in China (IECSC) :**  
On the inventory, or in compliance with the inventory

## SECTION 16. OTHER INFORMATION

### NFPA:



### HMIS III:

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

Issuing date : 04/02/2015  
Version : 1.2  
Prepared by : Regulatory Affairs

**REVISED INFORMATION:** Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

# SAFETY DATA SHEET

## GREASESTRIP PLUS

### Section 1. Chemical product and company identification

**Product name** : GREASESTRIP PLUS  
**Recommended use and restrictions** : Degreaser  
Use only for the purpose on the product label.

**Product dilution information** : Not applicable

**Supplier's information** : Ecolab Inc. Institutional Division  
370 N. Wabasha Street  
St. Paul, MN 55102  
1-800-352-5326

**Code** : 905117

**Date of issue** : 06 May 2013

EMERGENCY HEALTH INFORMATION: 1-800-328-0026  
Outside United States and Canada CALL 1-651-222-5352 (In USA)

### Section 2. Hazards identification

#### Product AS SOLD

**GHS Classification** : CORROSIVE TO METALS - Category 1  
SKIN CORROSION/IRRITATION - Category 1  
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

#### GHS label elements

**Signal word** : Danger

**Symbol** :



**Hazard statements** : May be corrosive to metals.  
Causes severe skin burns and eye damage.

#### Precautionary statements

**Prevention** : Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep only in original container. Wash hands thoroughly after handling.

**Response** : Absorb spillage to prevent material damage. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with

#### Product AT USE DILUTION

Product is sold ready to use.

## Section 2. Hazards identification

- water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.
- Storage** : Store in corrosive resistant container with a resistant inner liner.
- Disposal** : See section 13 for waste disposal information.
- Other hazards** : None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

**Product AS SOLD**

Hazardous ingredients	Concentration Range (%)	CAS number
SODIUM HYDROXIDE	7	1310-73-2

**Product AT USE DILUTION**

Hazardous ingredients	Concentration Range (%)	CAS number
Product is sold ready to use.		

## Section 4. First aid measures

- |                                   | Product AS SOLD   | Product AT USE DILUTION       |
|-----------------------------------|---|-------------------------------|
| <b>Eye contact</b>                | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.   | Product is sold ready to use. |
| <b>Skin contact</b>               | : Take off immediately all contaminated clothing. Rinse skin with water or shower. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.  |                               |
| <b>Inhalation</b>                 | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.   |                               |
| <b>Ingestion</b>                  | : Get medical attention immediately. Rinse mouth. Do not induce vomiting.   |                               |
| <b>Protection of first-aiders</b> | : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. |                               |
| <b>Notes to physician</b>         | : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.   |                               |

See toxicological information (section 11)

## Section 5. Fire-fighting measures

**Product AS SOLD**

**Suitable fire extinguishing media** : Use water spray, fog or foam.

**Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products** :

## Section 5. Fire-fighting measures

Decomposition products may include the following materials:

carbon dioxide  
carbon monoxide  
metal oxide/oxides

### Specific fire-fighting methods

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

### Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

	Product AS SOLD
<b>Personal precautions</b>	: Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Do not touch or walk through spilled material.
<b>Environmental precautions</b>	: Avoid contact of spilled material and runoff with soil and surface waterways.
<b>Methods for cleaning up</b>	: Follow company's spill procedures. Keep people away from spill. Put on appropriate personal protective equipment (see section 8). Absorb/neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Use a water rinse for final clean-up.

### Product AT USE DILUTION

Product is sold ready to use.

## Section 7. Handling and storage

	Product AS SOLD
<b>Handling</b>	: Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Wash thoroughly after handling.
<b>Storage</b>	: Keep out of reach of children. Keep container tightly closed.  Store between the following temperatures: 0 and 50°C

### Product AT USE DILUTION

Product is sold ready to use.

## Section 8. Exposure controls/personal protection

### Control parameters

Ingredient name	Exposure limits
SODIUM HYDROXIDE	ACGIH TLV (United States, 3/2012). C: 2 mg/m <sup>3</sup> OSHA PEL (United States, 6/2010). TWA: 2 mg/m <sup>3</sup> 8 hours. NIOSH REL (United States, 6/2009). CEIL: 2 mg/m <sup>3</sup>

## Section 8. Exposure controls/personal protection

	Product AS SOLD	Product AT USE DILUTION
<b>Appropriate engineering controls</b>	: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.	Product is sold ready to use.
<b>Personal protection</b>		
<b>Eye protection</b>	: Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.	
<b>Hand protection</b>	: Use chemical-resistant, impervious gloves.	
<b>Skin protection</b>	: Use synthetic apron, other protective equipment as necessary to prevent skin contact.	
<b>Respiratory protection</b>	: A respirator is not needed under normal and intended conditions of product use.	
<b>Hygiene measures</b>	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.	

## Section 9. Physical and chemical properties

	Product AS SOLD	Product AT USE DILUTION
<b>Physical state</b>	: Liquid.	Product is sold ready to use.
<b>Color</b>	: Orange [Dark]	
<b>Odor</b>	: Odorless	
<b>pH</b>	: 13.5 (100%)	
<b>Flash point</b>	: > 100°C	
<b>Explosion limits</b>	: Not available.	
<b>Flammability (solid, gas)</b>	: Not available.	
<b>Melting point</b>	: Not available.	
<b>Boiling point</b>	: Not available.	
<b>Evaporation rate (butyl acetate = 1)</b>	: Not available.	
<b>Vapor pressure</b>	: Not available.	
<b>Vapor density</b>	: Not available.	
<b>Relative density</b>	: 1.08 (Water = 1)	
<b>Solubility</b>	: Easily soluble in the following materials: cold water and hot water.	
<b>Partition coefficient: n-octanol/water</b>	: Not available.	
<b>Auto-ignition temperature</b>	: Not available.	
<b>Decomposition temperature</b>	: Not available.	
<b>Odor threshold</b>	: Not available.	
<b>Viscosity</b>	: Not available.	

## Section 10. Stability and reactivity

### Product AS SOLD

- Stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : No specific data.
- Materials to avoid** : Extremely reactive or incompatible with the following materials: acids.  
Reactive or incompatible with the following materials: metals.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

**Route of exposure** : Skin contact, Eye contact, Inhalation, Ingestion

### Product AS SOLD

#### Symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Inhalation** : Adverse symptoms may include the following:  
coughing  
Respiratory tract irritation
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

#### Acute toxicity

- Eye contact** : Causes serious eye damage.
- Skin contact** : Causes severe burns.
- Inhalation** : May cause respiratory irritation.
- Ingestion** : May cause burns to mouth, throat and stomach.

#### Toxicity data

**Product/ingredient name**  
Not applicable.

#### Chronic toxicity

- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

### Product AT USE DILUTION

Product is sold ready to use.

## Section 12. Ecological information

### Product AS SOLD

**Ecotoxicity** : This material is harmful to aquatic life.

#### Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
sodium hydroxide	Acute EC50 40 mg/l	Daphnia	48 hours

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Product AS SOLD**

**Disposal methods** : Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations.

**RCRA classification** : Unused product is D002 (Corrosive)

**Product AT USE DILUTION**  
Product is sold ready to use.

## Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

### DOT

**DOT Classification** UN1824

**DOT Proper shipping name** Sodium hydroxide solution

**Class** 8

**Packing group** II

### IMO/IMDG

**IMO/IMDG Classification** UN1824

**IMO/IMDG Proper shipping name** SODIUM HYDROXIDE SOLUTION

**Class** 8

**Packing group** II

For transport in bulk, see shipping documents for specific transportation information.

### **Product AT USE DILUTION**

Not intended for transport.

## Section 15. Regulatory information

### **Product AS SOLD**

#### U.S. Federal regulations

**TSCA 8(b) inventory** : All components are listed or exempted.

**SARA 302/304/311/312 extremely hazardous substances:** No listed substance

**SARA 302/304 emergency planning and notification:** No listed substance

<u>SARA 313</u>	<u>Product name</u>	<u>CAS number</u>	<u>Concentration</u>
<b>Form R - Reporting requirements</b>	: No listed substance		

**California Prop. 65** : No listed substance

## Section 16. Other information

### **Product AS SOLD**

**Hazardous Material Information System (U.S.A.)**

Health	*	3
Flammability		0
Physical hazards		0

**Section 16. Other information**

National Fire Protection Association (U.S.A.) :



Date of issue : 06 May 2013  
Prepared by : Regulatory Affairs  
1-800-352-5326

**Notice to reader**

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.



**PATHWAYS DRAIN TREATMENT****SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : PATHWAYS DRAIN TREATMENT

Other means of identification : Not applicable

Recommended use : Drain Cleaner

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 0.0075 % - 0.03 %

Company : Ecolab Inc.  
370 N. Wabasha Street  
St. Paul, Minnesota USA 55102  
1-800-352-5326

Emergency telephone : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date : 03/13/2015

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification****Product AS SOLD**

Not a hazardous substance or mixture.

**Product AT USE DILUTION**

Not a hazardous substance or mixture.

**GHS Label element****Product AS SOLD**

Precautionary Statements : **Prevention:**  
Wash hands thoroughly after handling.  
**Response:**  
Get medical advice/ attention if you feel unwell.  
**Storage:**  
Store in accordance with local regulations.

**Product AT USE DILUTION**

Precautionary Statements : **Prevention:**  
Wash hands thoroughly after handling.  
**Response:**  
Get medical advice/ attention if you feel unwell.  
**Storage:**  
Store in accordance with local regulations.

Other hazards : None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Product AS SOLD**

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
Propylene glycol	57-55-6	1 - 5

# SAFETY DATA SHEET

## PATHWAYS DRAIN TREATMENT

### Product AT USE DILUTION

No hazardous ingredients

## SECTION 4. FIRST AID MEASURES

### Product AS SOLD

- In case of eye contact : Rinse with plenty of water.
- In case of skin contact : Rinse with plenty of water.
- If swallowed : Rinse mouth. Get medical attention if symptoms occur.
- If inhaled : Get medical attention if symptoms occur.
- Protection of first-aiders : No special precautions are necessary for first aid responders.
- Notes to physician : No specific measures identified.
- Most important symptoms and effects, both acute and delayed : See Section 11 for more detailed information on health effects and symptoms.

### Product AT USE DILUTION

- In case of eye contact : Rinse with plenty of water.
- In case of skin contact : Rinse with plenty of water.
- If swallowed : Rinse mouth. Get medical attention if symptoms occur.
- If inhaled : Get medical attention if symptoms occur.

## SECTION 5. FIRE-FIGHTING MEASURES

### Product AS SOLD

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Not flammable or combustible.
- Hazardous combustion products : Decomposition products may include the following materials:  
Carbon oxides  
Nitrogen oxides (NOx)  
Sulfur oxides  
Oxides of phosphorus
- Special protective equipment for fire-fighters : Use personal protective equipment.
- Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

# SAFETY DATA SHEET

## PATHWAYS DRAIN TREATMENT

### Product AS SOLD

Personal precautions,  
protective equipment and  
emergency procedures

: Refer to protective measures listed in sections 7 and 8.

Environmental precautions

: No special environmental precautions required.

Methods and materials for  
containment and cleaning up

: Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

### Product AT USE DILUTION

Personal precautions,  
protective equipment and  
emergency procedures

: Refer to protective measures listed in sections 7 and 8.

Environmental precautions

: No special environmental precautions required.

Methods and materials for  
containment and cleaning up

: Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

## SECTION 7. HANDLING AND STORAGE

### Product AS SOLD

Advice on safe handling

: Wash hands after handling. For personal protection see section 8.

Conditions for safe storage

: Keep out of reach of children. Store in suitable labeled containers.

Storage temperature

: 0 °C to 50 °C

### Product AT USE DILUTION

Advice on safe handling

: Wash hands after handling. For personal protection see section 8.

Conditions for safe storage

: Keep out of reach of children. Store in suitable labeled containers.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Product AS SOLD

#### Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
Propylene glycol	57-55-6	TWA	10 mg/m <sup>3</sup>	WEEL

Engineering measures

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Personal protective equipment

# SAFETY DATA SHEET

## PATHWAYS DRAIN TREATMENT

- Eye protection : No special protective equipment required.
- Hand protection : No special protective equipment required.
- Skin protection : No special protective equipment required.
- Respiratory protection : No personal respiratory protective equipment normally required.
- Hygiene measures : Wash hands before breaks and immediately after handling the product.

### Product AT USE DILUTION

- Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### Personal protective equipment

- Eye protection : No special protective equipment required.
- Hand protection : No special protective equipment required.
- Skin protection : No special protective equipment required.
- Respiratory protection : No personal respiratory protective equipment normally required.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	Product AS SOLD	Product AT USE DILUTION
Appearance	: liquid	liquid
Color	: light green	colorless
Odor	: citrus	odorless
pH	: 7.5, 100 %	7.22
Flash point	: Not applicable	
Odor Threshold	: No data available	
Melting point/freezing point	: No data available	
Initial boiling point and boiling range	: No data available	
Evaporation rate	: No data available	
Flammability (solid, gas)	: No data available	
Upper explosion limit	: No data available	
Lower explosion limit	: No data available	
Vapor pressure	: No data available	
Relative vapor density	: No data available	
Relative density	: 1.0	
Water solubility	: soluble	
Solubility in other solvents	: No data available	
Partition coefficient: n-octanol/water	: No data available	
Autoignition temperature	: No data available	

# SAFETY DATA SHEET

## PATHWAYS DRAIN TREATMENT

Thermal decomposition	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Molecular weight	: No data available
VOC	: No data available

## SECTION 10. STABILITY AND REACTIVITY

### Product AS SOLD

Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: None known.
Incompatible materials	: None known.
Hazardous decomposition products	: Decomposition products may include the following materials: Carbon oxides Nitrogen oxides (NOx) Sulfur oxides Oxides of phosphorus

## SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

### Potential Health Effects

#### Product AS SOLD

Eyes	: Health injuries are not known or expected under normal use.
Skin	: Health injuries are not known or expected under normal use.
Ingestion	: Health injuries are not known or expected under normal use.
Inhalation	: Health injuries are not known or expected under normal use.
Chronic Exposure	: Health injuries are not known or expected under normal use.

#### Product AT USE DILUTION

Eyes	: Health injuries are not known or expected under normal use.
Skin	: Health injuries are not known or expected under normal use.
Ingestion	: Health injuries are not known or expected under normal use.
Inhalation	: Health injuries are not known or expected under normal use.
Chronic Exposure	: Health injuries are not known or expected under normal use.

### Experience with human exposure

# SAFETY DATA SHEET

## PATHWAYS DRAIN TREATMENT

### Product AS SOLD

- Eye contact : No symptoms known or expected.
- Skin contact : No symptoms known or expected.
- Ingestion : No symptoms known or expected.
- Inhalation : No symptoms known or expected.

### Product AT USE DILUTION

- Eye contact : No symptoms known or expected.
- Skin contact : No symptoms known or expected.
- Ingestion : No symptoms known or expected.
- Inhalation : No symptoms known or expected.

### Toxicity

#### Product AS SOLD

- Acute oral toxicity : Acute toxicity estimate > 5,000 mg/kg
- Acute inhalation toxicity : No data available
- Acute dermal toxicity : No data available
- Skin corrosion/irritation : No data available
- Serious eye damage/eye irritation : No data available
- Respiratory or skin sensitization : No data available
- Carcinogenicity : No data available
- Reproductive effects : No data available
- Germ cell mutagenicity : No data available
- Teratogenicity : No data available
- STOT-single exposure : No data available
- STOT-repeated exposure : No data available
- Aspiration toxicity : No data available

#### Ingredients

- Acute inhalation toxicity : Propylene glycol  
4 h LC50 Rat: > 158.5 mg/l

## SECTION 12. ECOLOGICAL INFORMATION

### Product AS SOLD

#### Ecotoxicity

- Environmental Effects : This product has no known ecotoxicological effects.

#### Product

- Toxicity to fish : No data available
- Toxicity to daphnia and other : No data available

# SAFETY DATA SHEET

## PATHWAYS DRAIN TREATMENT

aquatic invertebrates

Toxicity to algae : No data available

### Ingredients

Toxicity to fish : Propylene glycol  
96 h LC50: > 10,000 mg/l

### Ingredients

Toxicity to daphnia and other aquatic invertebrates : Propylene glycol  
48 h EC50: 18,340 mg/l

### Ingredients

Toxicity to algae : Propylene glycol  
96 h EC50: 19,000 mg/l

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

### Product AS SOLD

Disposal methods : Diluted product can be flushed to sanitary sewer.

Disposal considerations : Dispose of in accordance with local, state, and federal regulations.

### Product AT USE DILUTION

Disposal methods : Diluted product can be flushed to sanitary sewer.

Disposal considerations : Dispose of in accordance with local, state, and federal regulations.

## SECTION 14. TRANSPORT INFORMATION

### Product AS SOLD

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

### Land transport (DOT)

Not dangerous goods

### Sea transport (IMDG/IMO)

Not dangerous goods

### Product AT USE DILUTION

Not intended for transport.

# SAFETY DATA SHEET

## PATHWAYS DRAIN TREATMENT

### SECTION 15. REGULATORY INFORMATION

#### Product AS SOLD

#### EPCRA - Emergency Planning and Community Right-to-Know

#### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : No SARA Hazards

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

#### The ingredients of this product are reported in the following inventories:

#### United States TSCA Inventory :

On TSCA Inventory

#### Canadian Domestic Substances List (DSL) :

All components of this product are on the Canadian DSL.

#### Australia Inventory of Chemical Substances (AICS) :

not determined

#### New Zealand. Inventory of Chemical Substances :

not determined

#### Japan. ENCS - Existing and New Chemical Substances Inventory :

not determined

#### Japan. ISHL - Inventory of Chemical Substances (METI) :

not determined

#### Korea. Korean Existing Chemicals Inventory (KECI) :

not determined

#### Philippines Inventory of Chemicals and Chemical Substances (PICCS) :

On the inventory, or in compliance with the inventory

#### China. Inventory of Existing Chemical Substances in China (IECSC) :

On the inventory, or in compliance with the inventory

### SECTION 16. OTHER INFORMATION

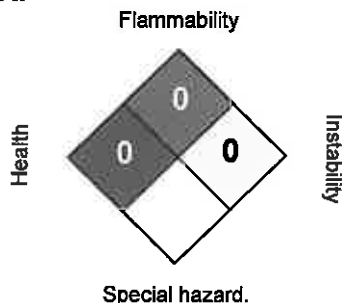


# SAFETY DATA SHEET

## PATHWAYS DRAIN TREATMENT

### Product AS SOLD

#### NFPA:



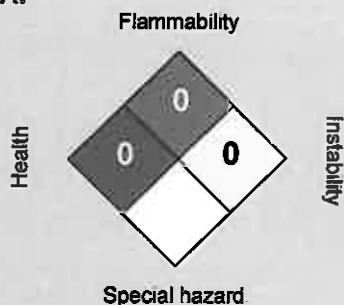
#### HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

### Product AT USE DILUTION

#### NFPA:



#### HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

Issuing date : 03/13/2015  
Version : 1.0  
Prepared by : Regulatory Affairs

**REVISED INFORMATION:** Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : SOLID SURGE PLUS

Other means of identification : not applicable

Recommended use : Laundry detergent

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 0.05 % - 0.11 %

Company : Ecolab Inc.  
370 N. Wabasha Street  
St. Paul, Minnesota USA 55102  
1-800-352-5326

Emergency telephone : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date : 07/16/2014

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification****Product AS SOLD**

Skin corrosion : Category 1A  
Serious eye damage : Category 1

**Product AT USE DILUTION**

Not a hazardous substance or mixture

**GHS Label element****Product AS SOLD**

Hazard pictograms



Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention:**  
Do not breathe dust or mist. Wash skin thoroughly after handling. Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.  
**Response:**  
IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. Wash contaminated clothing before reuse.  
**Storage:**

# SAFETY DATA SHEET

## SOLID SURGE PLUS

Store locked up.

**Disposal:**

Dispose of contents/ container to an approved waste disposal plant.

### Product AT USE DILUTION

Precautionary Statements

**Prevention:**

Wash hands thoroughly after handling.

**Response:**

Get medical advice/ attention if you feel unwell.

**Storage:**

Store in accordance with local regulations.

**Other hazards**

: None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Product AS SOLD

Pure substance/mixture : Mixture

**Chemical Name**

sodium hydroxide

alcohol ethoxylate

Sodium Carbonate

**CAS-No.**

1310-73-2

68551-12-2

497-19-8

**Concentration (%)**

30 - 60

10 - 30

5 - 10

No fragrance added

### Product AT USE DILUTION

No hazardous ingredients

## SECTION 4. FIRST AID MEASURES

### Product AS SOLD

In case of eye contact

: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

In case of skin contact

: Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

If swallowed

: Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

If inhaled

: Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

Protection of first-aiders

: If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Notes to physician

: Treat symptomatically.

### Product AT USE DILUTION

In case of eye contact

: Rinse with plenty of water.

In case of skin contact

: Rinse with plenty of water.

# SAFETY DATA SHEET

## SOLID SURGE PLUS

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

If inhaled : Get medical attention if symptoms occur.

See toxicological information (Section 11)

### SECTION 5. FIRE-FIGHTING MEASURES

#### Product AS SOLD

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : None known.

Specific hazards during fire fighting : Not flammable or combustible.

Hazardous combustion products : Decomposition products may include the following materials:  
Carbon oxides  
nitrogen oxides (NOx)  
Sulfur oxides  
Oxides of phosphorus

Special protective equipment for fire-fighters : Use personal protective equipment.

Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Product AS SOLD

Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Do not flush into surface water or sanitary sewer system.

#### Product AT USE DILUTION

Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.

Environmental precautions : No special environmental precautions required.

Methods and materials for : Stop leak if safe to do so. Contain spillage, and then collect with non-

# SAFETY DATA SHEET

## SOLID SURGE PLUS

containment and cleaning up : combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Do not flush into surface water or sanitary sewer system.

### SECTION 7. HANDLING AND STORAGE

#### Product AS SOLD

Advice on safe handling : Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.

Storage temperature : -30 °C to 50 °C

#### Product AT USE DILUTION

Advice on safe handling : Wash hands after handling. For personal protection see section 8.

Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Product AS SOLD

##### Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
sodium hydroxide	1310-73-2	Ceiling	2 mg/m <sup>3</sup>	ACGIH
		Ceiling	2 mg/m <sup>3</sup>	NIOSH REL
		TWA	2 mg/m <sup>3</sup>	OSHA Z1

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

#### Personal protective equipment

Eye protection : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.

Hand protection : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.

Skin protection : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.

Respiratory protection : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

# SAFETY DATA SHEET

## SOLID SURGE PLUS

### Product AT USE DILUTION

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### Personal protective equipment

Eye protection : No special protective equipment required.

Hand protection : No special protective equipment required.

Skin protection : No special protective equipment required.

Respiratory protection : No personal respiratory protective equipment normally required.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	Product AS SOLD	Product AT USE DILUTION
Appearance	: Cast Solid	liquid
Color	: opaque, yellow	colorless
Odor	: mild	mild
pH	: 11.8 - 13.0, 1 %	10.8 - 12.2
Flash point	: not applicable	
Odor Threshold	: no data available	
Melting point/freezing point	: no data available	
Initial boiling point and boiling range	: > 100 °C	
Evaporation rate	: no data available	
Flammability (solid, gas)	: no data available	
Upper explosion limit	: no data available	
Lower explosion limit	: no data available	
Vapor pressure	: no data available	
Relative vapor density	: no data available	
Relative density	: 1.45 - 1.55	
Water solubility	: insoluble	
Solubility in other solvents	: no data available	
Partition coefficient: n-octanol/water	: no data available	
Autoignition temperature	: no data available	
Thermal decomposition	: no data available	
Viscosity, kinematic	: no data available	
Explosive properties	: no data available	
Oxidizing properties	: no data available	
Molecular weight	: no data available	
VOC	: no data available	

## SECTION 10. STABILITY AND REACTIVITY

# SAFETY DATA SHEET

## SOLID SURGE PLUS

### Product AS SOLD

- Chemical stability : Stable under normal conditions.
- Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.
- Conditions to avoid : None known.
- Incompatible materials : Acids  
Metals
- Hazardous decomposition products : Decomposition products may include the following materials:  
Carbon oxides  
nitrogen oxides (NOx)  
Sulfur oxides  
Oxides of phosphorus

## SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Eye contact, Skin contact

### Potential Health Effects

#### Product AS SOLD

- Eyes : Causes serious eye damage.
- Skin : Causes severe skin burns.
- Ingestion : Causes digestive tract burns.
- Inhalation : May cause nose, throat, and lung irritation.
- Chronic Exposure : Health injuries are not known or expected under normal use.

#### Product AT USE DILUTION

- Eyes : Health injuries are not known or expected under normal use.
- Skin : Health injuries are not known or expected under normal use.
- Ingestion : Health injuries are not known or expected under normal use.
- Inhalation : Health injuries are not known or expected under normal use.
- Chronic Exposure : Health injuries are not known or expected under normal use.

### Experience with human exposure

#### Product AS SOLD

- Eye contact : Redness, Pain, Corrosion
- Skin contact : Redness, Pain, Corrosion
- Ingestion : Corrosion, Abdominal pain
- Inhalation : Respiratory irritation, Cough

#### Product AT USE DILUTION

# SAFETY DATA SHEET

## SOLID SURGE PLUS

Eye contact	: No symptoms known or expected.
Skin contact	: No symptoms known or expected.
Ingestion	: No symptoms known or expected.
Inhalation	: No symptoms known or expected.

### Toxicity

#### Product AS SOLD

Acute oral toxicity	: Acute toxicity estimate > 5,000 mg/kg
Acute inhalation toxicity	: no data available
Acute dermal toxicity	: no data available
Skin corrosion/irritation	: no data available
Serious eye damage/eye irritation	: no data available
Respiratory or skin sensitization	: no data available
Carcinogenicity	: no data available
Reproductive effects	: no data available
Germ cell mutagenicity	: no data available
Teratogenicity	: no data available
STOT-single exposure	: no data available
STOT-repeated exposure	: no data available
Aspiration toxicity	: no data available

#### Ingredients

Acute dermal toxicity	: alcohol ethoxylate LD50 rabbit > 2,000 mg/kg
-----------------------	---

## SECTION 12. ECOLOGICAL INFORMATION

#### Product AS SOLD

##### Ecotoxicity

Environmental Effects	: Harmful to aquatic life.
-----------------------	----------------------------

##### Product

Toxicity to fish	: no data available
Toxicity to daphnia and other aquatic invertebrates	: no data available
Toxicity to algae	: no data available

##### Ingredients

Toxicity to fish	: alcohol ethoxylate 96 h LC50 Fish: 1.5 mg/l
------------------	--

##### Ingredients

Toxicity to daphnia and other aquatic invertebrates	: sodium hydroxide 48 h EC50: 40 mg/l
---	--



# SAFETY DATA SHEET

## SOLID SURGE PLUS

Sodium Carbonate  
48 h EC50 Daphnia : 200 mg/l

### Persistence and degradability

no data available

### Bioaccumulative potential

no data available

### Mobility in soil

no data available

### Other adverse effects

no data available

## SECTION 13. DISPOSAL CONSIDERATIONS

### Product AS SOLD

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

RCRA - Resource Conservation and Recovery Authorization Act Hazardous waste : D002 (Corrosive)

### Product AT USE DILUTION

Disposal methods : Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

## SECTION 14. TRANSPORT INFORMATION

### Product AS SOLD

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

#### Air transport (IATA)

UN number : 1823  
Description of the goods : Sodium hydroxide, solid  
Class : 8  
Packing group : II  
Environmentally hazardous : no

#### Sea transport (IMDG/IMO)

UN number : 1823  
Description of the goods : SODIUM HYDROXIDE, SOLID  
Class : 8  
Packing group : II  
Marine pollutant : no

# SAFETY DATA SHEET

## SOLID SURGE PLUS

### Product AT USE DILUTION

Not intended for transport

## SECTION 15. REGULATORY INFORMATION

### Product AS SOLD

#### EPCRA - Emergency Planning and Community Right-to-Know

##### CERCLA Reportable Quantity

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
sodium hydroxide	1310-73-2	1000	2291

##### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

##### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

- SARA 311/312 Hazards** : Acute Health Hazard
- SARA 302** : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- SARA 313** : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

##### California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

#### The ingredients of this product are reported in the following inventories:

##### 1907/2006 (EU) :

not determined

##### Switzerland. New notified substances and declared preparations :

not determined

##### United States TSCA Inventory :

On TSCA Inventory

##### Canadian Domestic Substances List (DSL) :

All components of this product are on the Canadian DSL.

##### Australia Inventory of Chemical Substances (AICS) :

not determined

##### New Zealand. Inventory of Chemical Substances :

not determined

##### Japan. ENCS - Existing and New Chemical Substances Inventory :

not determined

##### Japan. ISHL - Inventory of Chemical Substances (METI) :

not determined

# SAFETY DATA SHEET

## SOLID SURGE PLUS

**Korea. Korean Existing Chemicals Inventory (KECI) :**  
not determined

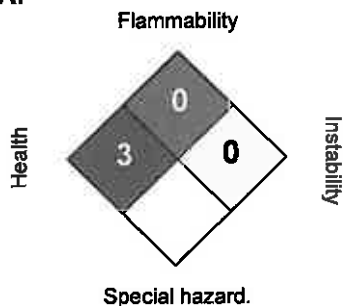
**Philippines Inventory of Chemicals and Chemical Substances (PICCS) :**  
not determined

**China. Inventory of Existing Chemical Substances in China (IECSC) :**  
not determined

### SECTION 16. OTHER INFORMATION

#### Product AS SOLD

##### NFPA:



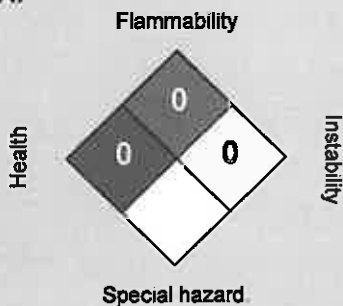
##### HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

#### Product AT USE DILUTION

##### NFPA:



##### HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

Issuing date : 07/16/2014  
Version : 1.3  
Prepared by : Regulatory Affairs

**REVISED INFORMATION:** Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

## SOLID STAINAWAY

### Section 1. Chemical product and company identification

**Product name** : SOLID STAINAWAY  
**Recommended use and restrictions** : Laundry product  
 Use only for the purpose on the product label.

**Product dilution information** : Up to 2.4 oz/100 gal or 0.2 mL/L in water

**Supplier's information** : Ecolab Inc. Institutional Division  
 370 N. Wabasha Street  
 St. Paul, MN 55102  
 1-800-352-5326

**Code** : 982546-01

**Date of issue** : 12 Jun 2013

EMERGENCY HEALTH INFORMATION: 1-800-328-0026  
 Outside United States and Canada CALL 1-651-222-5352 (in USA)

### Section 2. Hazards identification

**GHS Classification** : **Product AS SOLD**  
 : OXIDIZING SOLIDS - Category 1  
 ACUTE TOXICITY: ORAL - Category 4  
 SERIOUS EYE DAMAGE/ EYE IRRITATION -  
 Category 2A

GHS label elements

**Signal word** : Danger

**Symbol** :

**Hazard statements** : May cause fire or explosion; strong oxidizer.  
 Harmful if swallowed.  
 Causes serious eye irritation.

Precautionary statements

**Prevention** : Wear fire resistant clothing. Keep away from heat. - No smoking. Keep away from clothing, incompatible materials and combustible materials. Take any precaution to avoid mixing with combustibles and other incompatible materials. Mixing this product with acid or ammonia releases chlorine gas. Wash thoroughly after handling.

**Response** : In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists:

**Product AT USE DILUTION**

Not classified.

No signal word.

No known significant effects or critical hazards.

Wash thoroughly after handling.

Get medical attention if symptoms appear.

## Section 2. Hazards identification

Get medical attention. IF ON CLOTHING:  
Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

- Storage** : No other specific measures identified.  
**Disposal** : See section 13 for waste disposal information.  
**Other hazards** : None known.

No other specific measures identified.  
See section 13 for waste disposal information.  
None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

### Product AS SOLD

Hazardous ingredients	Concentration Range (%)	CAS number
troclosene sodium, dihydrate	>50	51580-86-0

### Product AT USE DILUTION

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

## Section 4. First aid measures

- Product AS SOLD**
- Eye contact** : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.
- Skin contact** : No known effect after skin contact. Rinse with water for a few minutes.
- Inhalation** : No special measures required. Treat symptomatically.
- Ingestion** : Get medical attention if you feel unwell. Rinse mouth.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

### Product AT USE DILUTION

No known effect after eye contact. Rinse with water for a few minutes.

No known effect after skin contact. Rinse with water for a few minutes.

No special measures required. Treat symptomatically.

Get medical attention if symptoms occur.

See toxicological information (section 11)

## Section 5. Fire-fighting measures

### Product AS SOLD

- Suitable fire extinguishing media** : Use water spray, fog or foam.
- Specific hazards arising from the chemical** : Strongly oxidizing material. May cause fire or explosion.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
halogenated compounds  
metal oxide/oxides

## Section 5. Fire-fighting measures

- Specific fire-fighting methods** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

- |                                  | Product AS SOLD   | Product AT USE DILUTION  |
|----------------------------------|---|--|
| <b>Personal precautions</b>      | : Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Do not touch or walk through spilled material. | Use personal protective equipment as required.   |
| <b>Environmental precautions</b> | : Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.  | Avoid contact of large amounts of spilled material and runoff with soil and surface waterways. |
| <b>Methods for cleaning up</b>   | : Collect spillage. Use a water rinse for final clean-up.   | Use a water rinse for final clean-up.  |

## Section 7. Handling and storage

- |                 | Product AS SOLD  | Product AT USE DILUTION         |
|-----------------|--|---------------------------------|
| <b>Handling</b> | : Do not ingest. Do not get in eyes or on skin or clothing. Keep away from combustible materials. Keep only in original container. Use only with adequate ventilation. Mixing this product with acid or ammonia releases chlorine gas. Wash thoroughly after handling. | Wash thoroughly after handling. |
| <b>Storage</b>  | : Keep out of reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area. Separate from reducing agents and combustible materials.<br>Store between the following temperatures: 0 and 50°C                                       | Keep out of reach of children.  |

## Section 8. Exposure controls/personal protection

### Control parameters

Ingredient name	Exposure limits
chlorine	<b>ACGIH TLV (United States, 3/2012).</b> STEL: 2.9 mg/m <sup>3</sup> 15 minutes. STEL: 1 ppm 15 minutes. TWA: 1.5 mg/m <sup>3</sup> 8 hours. TWA: 0.5 ppm 8 hours. <b>OSHA PEL (United States, 6/2010).</b> CEIL: 3 mg/m <sup>3</sup> CEIL: 1 ppm <b>NIOSH REL (United States, 6/2009).</b> CEIL: 0.5 ppm 15 minutes. CEIL: 1.45 mg/m <sup>3</sup> 15 minutes.

## Section 8. Exposure controls/personal protection

	Product AS SOLD	Product AT USE DILUTION
<b>Appropriate engineering controls</b>	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
<b>Personal protection</b>		
<b>Eye protection</b>	: Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
<b>Hand protection</b>	: No protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
<b>Skin protection</b>	: No protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
<b>Respiratory protection</b>	: A respirator is not needed under normal and intended conditions of product use.	A respirator is not needed under normal and intended conditions of product use.
<b>Hygiene measures</b>	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.	

## Section 9. Physical and chemical properties

	Product AS SOLD	Product AT USE DILUTION
<b>Physical state</b>	: Cast Solid	Liquid.
<b>Color</b>	: White	Colorless
<b>Odor</b>	: chlorine	chlorine
<b>pH</b>	: 6.25 (1 )	5.3 to 7.3
<b>Flash point</b>	: > 100°C Product does not support combustion.	> 100°C
<b>Explosion limits</b>	: Not available.	
<b>Flammability (solid, gas)</b>	: Not available.	
<b>Melting point</b>	: Not available.	
<b>Boiling point</b>	: >100°C (>212°F)	
<b>Evaporation rate (butyl acetate = 1)</b>	: Not available.	
<b>Vapor pressure</b>	: Not available.	
<b>Vapor density</b>	: Not available.	
<b>Relative density</b>	: 0 (Water = 1)	
<b>Solubility</b>	: Soluble in the following materials: hot water. Partially soluble in the following materials: cold water.	
<b>Partition coefficient: n-octanol/water</b>	: Not available.	
<b>Auto-ignition temperature</b>	: Not available.	
<b>Decomposition temperature</b>	: Not available.	
<b>Odor threshold</b>	: Not available.	
<b>Viscosity</b>	: Not available.	

## Section 10. Stability and reactivity

### Product AS SOLD

- Stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : No specific data.
- Materials to avoid** : Highly reactive or incompatible with the following materials: acids.  
Reactive or incompatible with the following materials: organic materials and metals.  
Slightly reactive or incompatible with the following materials: alkalis and moisture.  
Do not allow water to enter container. Wet material may generate halogenated gas that may pressurize sealed containers. Mixing this product with acid or ammonia releases chlorine gas.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

**Route of exposure** : Skin contact, Eye contact, Ingestion

### Product AS SOLD

#### Symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Skin contact** : No specific data.
- Inhalation** : No specific data.
- Ingestion** : No specific data.
- Acute toxicity**
- Eye contact** : Causes serious eye irritation.
- Skin contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : Harmful if swallowed.

### Product AT USE DILUTION

No specific data.

No specific data.

No specific data.

No specific data.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

#### Toxicity data

##### Product/ingredient name

troclosene sodium, dihydrate	LD50 Dermal	Rat	>5000 mg/kg
	LD50 Oral	Rat	1823 mg/kg

#### Chronic toxicity

- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.



## Section 12. Ecological information

### Product AS SOLD

**Ecotoxicity** : This material is very toxic to aquatic life.

### Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
troclosene sodium, dihydrate	Acute EC50 0.196 mg/l	Daphnia	48 hours

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

### Product AS SOLD

**Disposal methods** : Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations.

**RCRA classification** : Unused product is D001 (Ignitable)

### Product AT USE DILUTION

Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

## Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

### DOT

**DOT Classification** Not regulated.

### IMO/IMDG

**IMO/IMDG Classification** Not regulated.

For transport in bulk, see shipping documents for specific transportation information.

### Product AT USE DILUTION

Not intended for transport.

## Section 15. Regulatory information

### Product AS SOLD

### U.S. Federal regulations

**TSCA 8(b) inventory** : All components are listed or exempted.

**SARA 302/304/311/312 extremely hazardous substances**: No listed substance

**SARA 302/304 emergency planning and notification**: No listed substance

### SARA 313

### Product name

### CAS number

### Concentration

**Form R - Reporting requirements** : No listed substance

### California Prop. 65

: WARNING: This product contains a chemical known to the State of California to cause cancer.

## Section 16. Other information

**Section 16. Other information**

**Product AS SOLD**

**Hazardous Material Information System (U.S.A.)**

Health	2
Flammability	0
Physical hazards	1

**National Fire Protection Association (U.S.A.)**



**Product AT USE DILUTION**

Health	0
Flammability	0
Physical hazards	0



**Date of issue** : 12 Jun 2013  
**Prepared by** : Regulatory Affairs  
 1-800-352-5326

**Notice to reader**

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

## SOLID NAVISOFT

### Section 1. Chemical product and company identification

**Product name** : SOLID NAVISOFT  
**Recommended use and restrictions** : Laundry softener  
 Use only for the purpose on the product label.

**Product dilution information** : Up to 1.02 oz/100 gal or 8 mL/100 mL in water

**Supplier's information** : Ecolab Inc. Institutional Division  
 370 N. Wabasha Street  
 St. Paul, MN 55102  
 1-800-352-5326

**Code** : 903656

**Date of issue** : 02 Apr 2013

EMERGENCY HEALTH INFORMATION: 1-800-328-0026  
 Outside United States and Canada CALL 1-651-222-5352 (in USA)

### Section 2. Hazards identification

**GHS Classification** : **Product AS SOLD**  
 ACUTE TOXICITY: ORAL - Category 4  
 SKIN CORROSION/IRRITATION - Category 1B  
 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1  
 AQUATIC TOXICITY (ACUTE) - Category 2

**GHS label elements**

**Signal word** : Danger

**Symbol** : 

**Hazard statements** : Harmful if swallowed.  
 Causes severe skin burns and eye damage.  
 Toxic to aquatic life.

**Precautionary statements**

**Prevention** : Avoid release to the environment. Wash thoroughly after handling.

**Response** : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

**Product AT USE DILUTION**

Not classified.

No signal word.

No known significant effects or critical hazards.

Wash thoroughly after handling.

Get medical attention if symptoms appear.

## Section 2. Hazards identification

	do. Continue rinsing. Immediately call a POISON CENTER or physician.	
<b>Storage</b>	: No other specific measures identified.	No other specific measures identified. See section 13 for waste disposal information. None known.
<b>Disposal</b>	: See section 13 for waste disposal information.	
<b>Other hazards</b>	: None known.	

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

### Product AS SOLD

Hazardous ingredients	Concentration Range (%)	CAS number
SODIUM BISULFATE	20 - 50	7681-38-1
carboxylic acids, di-, c4-6	20 - 50	68603-87-2
quaternary ammonium compounds, di-c14-18-alkyldimethyl, me sulfates	5 - 20	68002-58-4
PEG-6 METHYL ETHER	1 - 5	9004-74-4
DIETHYLENE GLYCOL	1 - 5	111-46-6

### Product AT USE DILUTION

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

## Section 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
<b>Eye contact</b>	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.	No known effect after eye contact. Rinse with water for a few minutes.
<b>Skin contact</b>	: Take off immediately all contaminated clothing. Rinse skin with water or shower. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.	No known effect after skin contact. Rinse with water for a few minutes.
<b>Inhalation</b>	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.	No special measures required. Treat symptomatically.
<b>Ingestion</b>	: Get medical attention immediately. Rinse mouth. Do not induce vomiting.	Get medical attention if symptoms occur.
<b>Protection of first-aiders</b>	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	
<b>Notes to physician</b>	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	

See toxicological information (section 11)

## Section 5. Fire-fighting measures

### Product AS SOLD

- Suitable fire extinguishing media** : Use water spray, fog or foam.
- Specific hazards arising from the chemical** : This material is toxic to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
sulfur oxides  
metal oxide/oxides
- Specific fire-fighting methods** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

	Product AS SOLD	Product AT USE DILUTION
<b>Personal precautions</b>	: Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Do not touch or walk through spilled material.	Use personal protective equipment as required.
<b>Environmental precautions</b>	: Avoid contact of spilled material and runoff with soil and surface waterways.	Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
<b>Methods for cleaning up</b>	: Collect spillage. Use a water rinse for final clean-up.	Use a water rinse for final clean-up.

## Section 7. Handling and storage

	Product AS SOLD	Product AT USE DILUTION
<b>Handling</b>	: Do not ingest. Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Wash thoroughly after handling.	Wash thoroughly after handling.
<b>Storage</b>	: Keep out of reach of children. Keep container tightly closed.  Store between the following temperatures: 0 and 50°C	Keep out of reach of children.

## Section 8. Exposure controls/personal protection

### Control parameters

Ingredient name	Exposure limits
DIETHYLENE GLYCOL	AIHA WEEL (United States, 10/2011). TWA: 10 mg/m <sup>3</sup> 8 hours.

## Section 8. Exposure controls/personal protection

	Product AS SOLD	Product AT USE DILUTION
<b>Appropriate engineering controls</b>	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
<b>Personal protection</b>		
<b>Eye protection</b>	: Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
<b>Hand protection</b>	: Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
<b>Skin protection</b>	: Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
<b>Respiratory protection</b>	: A respirator is not needed under normal and intended conditions of product use.	A respirator is not needed under normal and intended conditions of product use.
<b>Hygiene measures</b>	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.	

## Section 9. Physical and chemical properties

	Product AS SOLD	Product AT USE DILUTION
<b>Physical state</b>	: Cast Solid	Liquid.
<b>Color</b>	: Tan	Colorless
<b>Odor</b>	: Fragrance-like	Fragrance-like
<b>pH</b>	: 2 to 3 (1%)	5 to 7
<b>Flash point</b>	: > 100°C Product does not support combustion.	> 100°C
<b>Explosion limits</b>	: Not available.	
<b>Flammability (solid, gas)</b>	: Not available.	
<b>Melting point</b>	: Not available.	
<b>Boiling point</b>	: Not available.	
<b>Evaporation rate (butyl acetate = 1)</b>	: Not available.	
<b>Vapor pressure</b>	: Not available.	
<b>Vapor density</b>	: Not available.	
<b>Relative density</b>	: 0 (Water = 1)	
<b>Solubility</b>	: Soluble in the following materials: hot water. Partially soluble in the following materials: cold water.	
<b>Partition coefficient: n-octanol/water</b>	: Not available.	
<b>Auto-ignition temperature</b>	: Not available.	
<b>Decomposition temperature</b>	: Not available.	
<b>Odor threshold</b>	: Not available.	
<b>Viscosity</b>	: Not available.	

## Section 10. Stability and reactivity

### Product AS SOLD

- Stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : No specific data.
- Materials to avoid** : Highly reactive or incompatible with the following materials: alkalis.  
Reactive or incompatible with the following materials: metals.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

**Route of exposure** : Skin contact, Eye contact, Ingestion

### Product AS SOLD

#### Symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Inhalation** : Adverse symptoms may include the following:  
coughing  
Respiratory tract irritation
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

#### Acute toxicity

- Eye contact** : Causes serious eye damage.
- Skin contact** : Causes severe burns.
- Inhalation** : May cause respiratory irritation.
- Ingestion** : Harmful if swallowed. May cause burns to mouth, throat and stomach.

### Product AT USE DILUTION

No specific data.

No specific data.

No specific data.

No specific data.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

#### Toxicity data

Product/ingredient name	Result	Species	Dose
Sodium bisulfate	LC50 Inhalation Dusts and mists	Rat	>2.4 mg/l
carboxylic acids, di-, c4-6	LD50 Oral	Rat	2140 mg/kg
	LD50 Dermal	Rat	>4940 mg/kg
	LD50 Oral	Rat	2131 mg/kg
quaternary ammonium compounds, di-c14-18-alkyldimethyl, me sulfates	LD50 Dermal	Rabbit	2930 mg/kg
	LD50 Oral	Rat	730 mg/kg
poly(oxy-1,2-ethanediyl), .alpha.-methyl-.omega.-hydroxy-	LD50 Dermal	Rabbit	>21880 mg/kg
	LD50 Oral	Rat	>24068 mg/kg

#### Chronic toxicity

- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.

## Section 11. Toxicological information

**Teratogenicity** : No known significant effects or critical hazards.  
**Developmental effects** : No known significant effects or critical hazards.  
**Fertility effects** : No known significant effects or critical hazards.

## Section 12. Ecological information

### Product AS SOLD

**Ecotoxicity** : This material is toxic to aquatic life.

### Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
Sodium bisulfate	Acute LC50 7960 mg/l	Fish	96 hours
carboxylic acids, di-, c4-6	Acute LC50 59.5 mg/l	Fish	96 hours
quaternary ammonium compounds, di-c14-18-alkyldimethyl, me sulfates	Acute EC50 0.57 mg/l	Daphnia	48 hours
poly(oxy-1,2-ethanediyl), .alpha.-methyl-.omega.-hydroxy-	Acute LC50 10000 mg/l	Fish	96 hours
2,2'-oxybisethanol	Acute LC50 75200 mg/l	Fish	96 hours

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

### Product AS SOLD

**Disposal methods** : Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations.

### Product AT USE DILUTION

Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

## Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

### DOT

**DOT Classification** : Not regulated.

### IMO/IMDG

**IMO/IMDG Classification** : Not regulated.

For transport in bulk, see shipping documents for specific transportation information.

### Product AT USE DILUTION

Not intended for transport.

## Section 15. Regulatory information

### Product AS SOLD

### U.S. Federal regulations

**TSCA 8(b) inventory** : All components are listed or exempted.

**SARA 302/304/311/312 extremely hazardous substances**: No listed substance

**SARA 302/304 emergency planning and notification**: No listed substance

<u>SARA 313</u>	<u>Product name</u>	<u>CAS number</u>	<u>Concentration</u>
<b>Form R - Reporting requirements</b>	: No listed substance		



**Section 15. Regulatory information**

California Prop. 65 : No listed substance

**Section 16. Other information**

**Product AS SOLD**

**Hazardous Material Information System (U.S.A.)** :

Health	3
Flammability	0
Physical hazards	0

**National Fire Protection Association (U.S.A.)** :



**Product AT USE DILUTION**

Health	0
Flammability	0
Physical hazards	0



**Date of issue** : 02 Apr 2013  
**Prepared by** : Regulatory Affairs  
 1-800-352-5326

**Notice to reader**

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

# SAFETY DATA SHEET



Homestyle Solid Laundry Detergent with Enzymes

## Section 1. Chemical product and company identification

**Product name** : Homestyle Solid Laundry Detergent with Enzymes

**Recommended use and restrictions** : Laundry detergent

Use only for the purpose on the product label.

**Product dilution information** : Up to 0.22 oz/gal or 1.7 mL/L in water

**Supplier's information** : Ecolab Inc. Institutional Division  
370 N. Wabasha Street  
St. Paul, MN 55102  
1-800-352-5326

**Code** : 913411

**Date of issue** : 02 Apr 2013


EMERGENCY HEALTH INFORMATION: 1-800-328-0026  
Outside United States and Canada CALL 1-651-222-5352 (in USA)

## Section 2. Hazards identification

**GHS Classification** : **Product AS SOLD**  
: SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1  
AQUATIC TOXICITY (ACUTE) - Category 2

### GHS label elements

**Signal word** : Danger

**Symbol** : 

**Hazard statements** : Causes serious eye damage.  
Toxic to aquatic life.

### Precautionary statements

**Prevention** : Avoid release to the environment. Wash thoroughly after handling.

**Response** : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

**Storage** : No other specific measures identified.

**Disposal** : See section 13 for waste disposal information.

**Other hazards** : None known.

### **Product AT USE DILUTION**

Not classified.

No signal word.

No known significant effects or critical hazards.

Wash thoroughly after handling.

Get medical attention if symptoms appear.

No other specific measures identified.

See section 13 for waste disposal information.

None known.

### Section 3. Composition/information on ingredients

Substance/mixture : Mixture

#### Product AS SOLD

Hazardous ingredients	Concentration Range (%)	CAS number
ZEOLITE	20 - 50	1318-02-1
SODIUM CARBONATE	20 - 50	497-19-8
alcohols, c12-16, ethoxylated	20 - 50	68551-12-2
poly(oxy-1,2-ethanediyl), a-(2-propylheptyl)-w-hydroxy-	5 - 20	160875-66-1

#### Product AT USE DILUTION

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

### Section 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
<b>Eye contact</b>	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.	No known effect after eye contact. Rinse with water for a few minutes.
<b>Skin contact</b>	: No known effect after skin contact. Rinse with water for a few minutes.	No known effect after skin contact. Rinse with water for a few minutes.
<b>Inhalation</b>	: No special measures required. Treat symptomatically.	No special measures required. Treat symptomatically.
<b>Ingestion</b>	: Get medical attention if symptoms occur.	Get medical attention if symptoms occur.
<b>Protection of first-aiders</b>	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	
<b>Notes to physician</b>	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	

See toxicological information (section 11)

### Section 5. Fire-fighting measures

#### Product AS SOLD

<b>Suitable fire extinguishing media</b>	: Use water spray, fog or foam.
<b>Specific hazards arising from the chemical</b>	: This material is toxic to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
<b>Hazardous thermal decomposition products</b>	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
<b>Specific fire-fighting methods</b>	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Special protective equipment for fire-fighters</b>	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

	<b>Product AS SOLD</b>
<b>Personal precautions</b>	: Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Do not touch or walk through spilled material.
<b>Environmental precautions</b>	: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
<b>Methods for cleaning up</b>	: Collect spillage. Use a water rinse for final clean-up.

### Product AT USE DILUTION

Use personal protective equipment as required.

Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.

Use a water rinse for final clean-up.

## Section 7. Handling and storage

	<b>Product AS SOLD</b>
<b>Handling</b>	: Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Wash thoroughly after handling.
<b>Storage</b>	: Keep out of reach of children. Keep container tightly closed.
	Store between the following temperatures: 5 and 40°C

### Product AT USE DILUTION

Wash thoroughly after handling.

Keep out of reach of children.

## Section 8. Exposure controls/personal protection

### Control parameters

Ingredient name	Exposure limits
None.	

	<b>Product AS SOLD</b>
<b>Appropriate engineering controls</b>	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
<b>Personal protection</b>	
<b>Eye protection</b>	: Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.
<b>Hand protection</b>	: No protective equipment is needed under normal use conditions.
<b>Skin protection</b>	: No protective equipment is needed under normal use conditions.
<b>Respiratory protection</b>	: A respirator is not needed under normal and intended conditions of product use.
<b>Hygiene measures</b>	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

### Product AT USE DILUTION

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

No protective equipment is needed under normal use conditions.

No protective equipment is needed under normal use conditions.

No protective equipment is needed under normal use conditions.

A respirator is not needed under normal and intended conditions of product use.

## Section 9. Physical and chemical properties

	Product AS SOLD
<b>Physical state</b>	: Cast Solid
<b>Color</b>	: White with colored particles
<b>Odor</b>	: Fragrance-like
<b>pH</b>	: 10 to 12 (1%)
<b>Flash point</b>	: > 100°C Product does not support combustion.
<b>Explosion limits</b>	: Not available.
<b>Flammability (solid, gas)</b>	: Not available.
<b>Melting point</b>	: Not available.
<b>Boiling point</b>	: Not available.
<b>Evaporation rate (butyl acetate = 1)</b>	: Not available.
<b>Vapor pressure</b>	: Not available.
<b>Vapor density</b>	: Not available.
<b>Relative density</b>	: 1.27 to 1.34 (Water = 1)
<b>Solubility</b>	: Soluble in the following materials: hot water. Partially soluble in the following materials: cold water.
<b>Partition coefficient: n-octanol/water</b>	: Not available.
<b>Auto-ignition temperature</b>	: Not available.
<b>Decomposition temperature</b>	: Not available.
<b>Odor threshold</b>	: Not available.
<b>Viscosity</b>	: Not available.

### Product AT USE DILUTION

Liquid.  
Colorless  
Fragrance-like [Slight]  
7 to 11  
> 100°C

## Section 10. Stability and reactivity

	Product AS SOLD
<b>Stability</b>	: The product is stable.
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: No specific data.
<b>Materials to avoid</b>	: Reactive or incompatible with the following materials: acids. Slightly reactive or incompatible with the following materials: metals.
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

**Route of exposure** : Skin contact, Eye contact, Ingestion

## Section 11. Toxicological information

Product AS SOLD		Product AT USE DILUTION
<b>Symptoms</b>		
<b>Eye contact</b>	: Adverse symptoms may include the following: pain watering redness	No specific data.
<b>Skin contact</b>	: No specific data.	No specific data.
<b>Inhalation</b>	: No specific data.	No specific data.
<b>Ingestion</b>	: No specific data.	No specific data.
<b>Acute toxicity</b>		
<b>Eye contact</b>	: Causes serious eye damage.	No known significant effects or critical hazards.
<b>Skin contact</b>	: No known significant effects or critical hazards.	No known significant effects or critical hazards.
<b>Inhalation</b>	: No known significant effects or critical hazards.	No known significant effects or critical hazards.
<b>Ingestion</b>	: No known significant effects or critical hazards.	No known significant effects or critical hazards.

### Toxicity data

Product/ingredient name	Result	Species	Dose
zeolite	LC50 Inhalation Vapor	Rat	>5.3 mg/l
	LD50 Dermal	Rabbit	>2000 mg/kg
	LD50 Oral	Rat	>5000 mg/kg
sodium carbonate	LC50 Inhalation Dusts and mists	Rat	1.15 mg/l
	LD50 Dermal	Rabbit	>2000 mg/kg
	LD50 Oral	Rat	2800 mg/kg
alcohols, c12-16, ethoxylated	LD50 Dermal	Rabbit	>2000 mg/kg
	LD50 Oral	Rat	1100 mg/kg
poly(oxy-1,2-ethanediyl), a-(2-propylheptyl)- w-hydroxy-	LD50 Oral	Rat	>2000 mg/kg

### Chronic toxicity

<b>Carcinogenicity</b>	: No known significant effects or critical hazards.
<b>Mutagenicity</b>	: No known significant effects or critical hazards.
<b>Teratogenicity</b>	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
<b>Fertility effects</b>	: No known significant effects or critical hazards.

## Section 12. Ecological information

### Product AS SOLD

**Ecotoxicity** : This material is toxic to aquatic life.

### Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
zeolite	Acute LC50 1800 mg/l	Fish	96 hours
sodium carbonate	Acute EC50 200 mg/l	Daphnia	48 hours
alcohols, c12-16, ethoxylated	Acute LC50 1.5 mg/l	Fish	96 hours
poly(oxy-1,2-ethanediyl), a-(2-propylheptyl)- w-hydroxy-	Acute EC50 10 mg/l	Daphnia	48 hours

**Other adverse effects** : No known significant effects or critical hazards.

### Section 13. Disposal considerations

**Product AS SOLD**  
**Disposal methods** : Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Product AT USE DILUTION**  
 Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

### Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

DOT

DOT Classification : Not regulated.

IMO/IMDG

IMO/IMDG Classification : Not regulated.

For transport in bulk, see shipping documents for specific transportation information.

**Product AT USE DILUTION**  
 Not intended for transport.

### Section 15. Regulatory information

**Product AS SOLD**

U.S. Federal regulations

TSCA 8(b) inventory : All components are listed or exempted.  
 SARA 302/304/311/312 extremely hazardous substances: No listed substance  
 SARA 302/304 emergency planning and notification: No listed substance

<u>SARA 313</u>	<u>Product name</u>	<u>CAS number</u>	<u>Concentration</u>
Form R - Reporting requirements	: No listed substance		

California Prop. 65 : No listed substance

### Section 16. Other information

**Product AS SOLD**

**Hazardous Material Information System (U.S.A.)** :

Health	3
Flammability	0
Physical hazards	0

**National Fire Protection Association (U.S.A.)** :

**Product AT USE DILUTION**

Health	0
Flammability	0
Physical hazards	0

**Section 16. Other information**

**Date of issue** : 02 Apr 2013  
**Prepared by** : Regulatory Affairs  
1-800-352-5326

**Notice to reader**

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.



# SAFETY DATA SHEET

## SOLID DESTAINER

### Section 1. Chemical product and company identification

**Product name** : SOLID DESTAINER  
**Recommended use and restrictions** : Laundry product  
Use only for the purpose on the product label.

**Product dilution information** : Up to 17 g/20 gal or 1.8 g/10 L in water.

**Supplier's information** : Ecolab Inc. Institutional Division  
370 N. Wabasha Street  
St. Paul, MN 55102  
1-800-352-5326  
**Code** : 901358  
**Date of issue** : 01 Apr 2013  
EMERGENCY HEALTH INFORMATION: 1-800-328-0026  
Outside United States and Canada CALL 1-651-222-5352 (in USA)

### Section 2. Hazards identification

**Product AS SOLD**  
**GHS Classification** : OXIDIZING SOLIDS - Category 1  
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A  
AQUATIC TOXICITY (ACUTE) - Category 1

#### GHS label elements

**Signal word** : Danger  
**Symbol** :



**Hazard statements** : May cause fire or explosion; strong oxidizer.  
Causes serious eye irritation.  
Very toxic to aquatic life.

#### Precautionary statements

**Prevention** : Wear fire resistant clothing. Keep away from heat. - No smoking. Keep away from clothing, incompatible materials and combustible materials. Take any precaution to avoid mixing with combustibles and other incompatible materials. Avoid release to the environment. Wash thoroughly after handling. Mixing this product with acid or ammonia releases chlorine gas.

**Response** :

#### **Product AT USE DILUTION**

Not classified.

No signal word.

No known significant effects or critical hazards.

Wash thoroughly after handling.

## Section 2. Hazards identification

Collect spillage. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

**Storage** : No other specific measures identified.  
**Disposal** : See section 13 for waste disposal information.  
**Other hazards** : None known.

Get medical attention if symptoms appear.

No other specific measures identified.  
 See section 13 for waste disposal information.  
 None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

**Product AS SOLD**

Hazardous ingredients	Concentration Range (%)	CAS number
troclosene sodium, dihydrate	>50	51580-86-0
1-octanesulfonic acid, sodium salt	1 - 5	5324-84-5

**Product AT USE DILUTION**

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

## Section 4. First aid measures

**Product AS SOLD**

**Eye contact** : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.  
**Skin contact** : No known effect after skin contact. Rinse with water for a few minutes.  
**Inhalation** : No special measures required. Treat symptomatically.  
**Ingestion** : Get medical attention if symptoms occur.  
**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.  
**Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

See toxicological information (section 11)

**Product AT USE DILUTION**

No known effect after eye contact. Rinse with water for a few minutes.  
 No known effect after skin contact. Rinse with water for a few minutes.  
 No special measures required. Treat symptomatically.  
 Get medical attention if symptoms occur.

## Section 5. Fire-fighting measures

**Product AS SOLD**

**Suitable fire extinguishing media** : Use water spray, fog or foam.

**Specific hazards arising from the chemical** : Strongly oxidizing material. May cause fire or explosion. This material is very toxic to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

## Section 5. Fire-fighting measures

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
 carbon dioxide  
 carbon monoxide  
 nitrogen oxides  
 sulfur oxides  
 halogenated compounds  
 metal oxide/oxides
- Specific fire-fighting methods** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

	Product AS SOLD	Product AT USE DILUTION
<b>Personal precautions</b>	: Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Do not touch or walk through spilled material.	Use personal protective equipment as required.
<b>Environmental precautions</b>	: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.	Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
<b>Methods for cleaning up</b>	: Collect spillage. Use a water rinse for final clean-up.	Use a water rinse for final clean-up.

## Section 7. Handling and storage

	Product AS SOLD	Product AT USE DILUTION
<b>Handling</b>	: Avoid contact with eyes, skin and clothing. Keep away from combustible materials. Keep only in original container. Wash thoroughly after handling. Mixing this product with acid or ammonia releases chlorine gas.	Wash thoroughly after handling.
<b>Storage</b>	: Keep out of reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area. Separate from reducing agents and combustible materials.  Store between the following temperatures: 0 and 50°C	Keep out of reach of children.

## Section 8. Exposure controls/personal protection

### Control parameters

Ingredient name	Exposure limits
chlorine	<b>ACGIH TLV (United States, 3/2012).</b> STEL: 2.9 mg/m <sup>3</sup> 15 minutes. STEL: 1 ppm 15 minutes. TWA: 1.5 mg/m <sup>3</sup> 8 hours. TWA: 0.5 ppm 8 hours. <b>OSHA PEL (United States, 6/2010).</b> CEIL: 3 mg/m <sup>3</sup> CEIL: 1 ppm

## Section 8. Exposure controls/personal protection

NIOSH REL (United States, 6/2009).

CEIL: 0.5 ppm 15 minutes.

CEIL: 1.45 mg/m<sup>3</sup> 15 minutes.

	Product AS SOLD	Product AT USE DILUTION
<b>Appropriate engineering controls</b>	: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
<b>Personal protection</b>		
<b>Eye protection</b>	: Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
<b>Hand protection</b>	: Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
<b>Skin protection</b>	: Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
<b>Respiratory protection</b>	: Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.	A respirator is not needed under normal and intended conditions of product use.
<b>Hygiene measures</b>	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.	

## Section 9. Physical and chemical properties

	Product AS SOLD	Product AT USE DILUTION
<b>Physical state</b>	: Cast Solid	Liquid.
<b>Color</b>	: White	Colorless
<b>Odor</b>	: chlorine	chlorine
<b>pH</b>	: 9.8 (1 )	9 to 10
<b>Flash point</b>	: > 100°C Product does not support combustion.	> 100°C
<b>Explosion limits</b>	: Not available.	
<b>Flammability (solid, gas)</b>	: Not available.	
<b>Melting point</b>	: Not available.	
<b>Boiling point</b>	: Not available.	
<b>Evaporation rate (butyl acetate = 1)</b>	: Not available.	
<b>Vapor pressure</b>	: Not available.	
<b>Vapor density</b>	: Not available.	
<b>Relative density</b>	: Only known value: 2.7 (Water = 1) (sodium sulfate).	
<b>Solubility</b>	: Soluble in the following materials: hot water. Partially soluble in the following materials: cold water.	
<b>Partition coefficient: n-octanol/water</b>	: Not available.	

## Section 9. Physical and chemical properties

- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Odor threshold** : Not available.
- Viscosity** : Not available.

## Section 10. Stability and reactivity

### Product AS SOLD

- Stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : No specific data.
- Materials to avoid** : Highly reactive or incompatible with the following materials: acids.  
Reactive or incompatible with the following materials: organic materials.  
Slightly reactive or incompatible with the following materials: metals and moisture.  
Do not allow water to enter container. Wet material may generate halogenated gas that may pressurize sealed containers. Mixing this product with acid or ammonia releases chlorine gas.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

- Route of exposure** : Skin contact, Eye contact, Ingestion

### Product AS SOLD

#### Symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Skin contact** : No specific data.
- Inhalation** : No specific data.
- Ingestion** : No specific data.
- Acute toxicity**
- Eye contact** : Causes serious eye irritation.
- Skin contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

### Product AT USE DILUTION

No specific data.

No specific data.

No specific data.

No specific data.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

#### Toxicity data

Product/ingredient name	Result	Species	Dose
troclosene sodium, dihydrate	LD50 Dermal	Rat	>5000 mg/kg
	LD50 Oral	Rat	1823 mg/kg
1-octanesulfonic acid, sodium salt	LD50 Oral	Rat	>5000 mg/kg

#### Chronic toxicity

- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.

## Section 11. Toxicological information

**Teratogenicity** : No known significant effects or critical hazards.  
**Developmental effects** : No known significant effects or critical hazards.  
**Fertility effects** : No known significant effects or critical hazards.

## Section 12. Ecological information

### Product AS SOLD

**Ecotoxicity** : This material is very toxic to aquatic life.

### Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
troclosene sodium, dihydrate	Acute EC50 0.196 mg/l	Daphnia	48 hours
1-octanesulfonic acid, sodium salt	Acute EC50 3200 mg/l	Daphnia	48 hours

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

### Product AS SOLD

**Disposal methods** : Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations.

### Product AT USE DILUTION

Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

## Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

### DOT

**DOT Classification** : Not regulated.

### IMO/IMDG

**IMO/IMDG Classification** : Not regulated.

For transport in bulk, see shipping documents for specific transportation information.

### Product AT USE DILUTION

Not intended for transport.

## Section 15. Regulatory information

### Product AS SOLD

#### U.S. Federal regulations

**TSCA 8(b) inventory** : All components are listed or exempted.

**SARA 302/304/311/312 extremely hazardous substances**: No listed substance

**SARA 302/304 emergency planning and notification**: No listed substance

<u>SARA 313</u>	<u>Product name</u>	<u>CAS number</u>	<u>Concentration</u>
<b>Form R - Reporting requirements</b>	: No listed substance		

**California Prop. 65** : WARNING: This product contains a chemical known to the State of California to cause cancer.

**Section 16. Other information**

**Product AS SOLD**

**Hazardous Material Information System (U.S.A.)**

Health	2
Flammability	0
Physical hazards	1

**Product AT USE DILUTION**

Health	0
Flammability	0
Physical hazards	0

**National Fire Protection Association (U.S.A.)**



**Date of issue** : 01 Apr 2013  
**Prepared by** : Regulatory Affairs  
 1-800-352-5326

**Notice to reader**

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : Tri-Star L2000 XP

Other means of identification : not applicable

Recommended use : Laundry detergent

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 0.1 % - 0.18 %

Company : Ecolab Inc.  
370 N. Wabasha Street  
St. Paul, Minnesota USA 55102  
1-800-352-5326

Emergency telephone : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date : 03/14/2014

**SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification**

**Product AS SOLD**

Skin corrosion : Category 1A  
Serious eye damage : Category 1

**Product AT USE DILUTION**

Not a hazardous substance or mixture.

**GHS Label element**

**Product AS SOLD**

Hazard pictograms



Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention:**  
Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. Wash contaminated clothing before reuse.  
**Storage:**  
Store locked up.



# SAFETY DATA SHEET

Tri-Star L2000 XP

**Disposal:**

Dispose of contents/ container to an approved waste disposal plant.

**Product AT USE DILUTION****Precautionary Statements****Prevention:**

Wash hands thoroughly after handling.

**Response:**

Specific measures: consult MSDS Section 4.

**Storage:**

Store in accordance with local regulations.

**Other hazards** : None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Product AS SOLD**

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
sodium hydroxide	1310-73-2	10 - 30
poly(oxy-1,2-ethanediyl), a-(2-propylheptyl)-w-hydroxy-	160875-66-1	10 - 30
alcohols, c12-16, ethoxylated	68551-12-2	10 - 30

**Product AT USE DILUTION**

No hazardous ingredients

## SECTION 4. FIRST AID MEASURES

**Product AS SOLD**

- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
- In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
- If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.
- Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Notes to physician : Treat symptomatically.

**Product AT USE DILUTION**

- In case of eye contact : Rinse with plenty of water.
- In case of skin contact : Rinse with plenty of water.
- If swallowed : Rinse mouth. Get medical attention if symptoms occur.

# SAFETY DATA SHEET

Tri-Star L2000 XP

If inhaled : Get medical attention if symptoms occur.

See toxicological information (Section 11)

## SECTION 5. FIRE-FIGHTING MEASURES

### Product AS SOLD

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Not flammable or combustible.
- Hazardous combustion products : Carbon oxides
- Special protective equipment for fire-fighters : Use personal protective equipment.
- Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Product AS SOLD

- Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not allow contact with soil, surface or ground water.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

### Product AT USE DILUTION

- Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : No special environmental precautions required.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

# SAFETY DATA SHEET

Tri-Star L2000 XP

## SECTION 7. HANDLING AND STORAGE

### Product AS SOLD

Advice on safe handling : Do not ingest. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling. Use only with adequate ventilation.

Conditions for safe storage : Do not store near acids. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

Storage temperature : 10 °C to 50 °C

### Product AT USE DILUTION

Advice on safe handling : For personal protection see section 8. Wash hands after handling.

Conditions for safe storage : Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Product AS SOLD

#### Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
sodium hydroxide	1310-73-2	Ceiling	2 mg/m <sup>3</sup>	ACGIH
		Ceiling	2 mg/m <sup>3</sup>	NIOSH REL
		TWA	2 mg/m <sup>3</sup>	OSHA Z1

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

#### Personal protective equipment

Eye protection : Safety goggles  
Face-shield

Hand protection : Wear the following personal protective equipment:  
Standard glove type.  
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin protection : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

### Product AT USE DILUTION

Engineering measures : Good general ventilation should be sufficient to control worker

# SAFETY DATA SHEET

## Tri-Star L2000 XP

exposure to airborne contaminants.

### Personal protective equipment

- Eye protection : No special protective equipment required.
- Hand protection : No special protective equipment required.
- Skin protection : No special protective equipment required.
- Respiratory protection : No personal respiratory protective equipment normally required.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	Product AS SOLD	Product AT USE DILUTION
Appearance	: Emulsion	liquid
Color	: opaque, blue	colorless
Odor	: slight	odorless
pH	: 13.0 - 14.0, 100 %	11.0 - 12.0
Flash point	: not applicable, Does not sustain combustion.	
Odor Threshold	: no data available	
Melting point/freezing point	: no data available	
Initial boiling point and boiling range	: > 100 °C	
Evaporation rate	: no data available	
Flammability (solid, gas)	: no data available	
Upper explosion limit	: no data available	
Lower explosion limit	: no data available	
Vapor pressure	: no data available	
Relative vapor density	: no data available	
Relative density	: 1.207 - 1.275	
Water solubility	: soluble	
Solubility in other solvents	: no data available	
Partition coefficient: n-octanol/water	: no data available	
Autoignition temperature	: no data available	
Thermal decomposition	: no data available	
Viscosity, kinematic	: 2,018.131 mm <sup>2</sup> /s	
Explosive properties	: no data available	
Oxidizing properties	: no data available	
Molecular weight	: no data available	
VOC	: no data available	

## SECTION 10. STABILITY AND REACTIVITY

### Product AS SOLD

# SAFETY DATA SHEET

## Tri-Star L2000 XP

- Chemical stability : Stable under normal conditions.
- Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.
- Conditions to avoid : None known.
- Incompatible materials : Acids  
Metals  
Organic materials
- Hazardous decomposition products : Carbon oxides

### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

#### Potential Health Effects

##### Product AS SOLD

- Eyes : Causes serious eye damage.
- Skin : Causes severe skin burns.
- Ingestion : Causes digestive tract burns.
- Inhalation : May cause nose, throat, and lung irritation.
- Chronic Exposure : Health injuries are not known or expected under normal use.

##### Product AT USE DILUTION

- Eyes : Health injuries are not known or expected under normal use.
- Skin : Health injuries are not known or expected under normal use.
- Ingestion : Health injuries are not known or expected under normal use.
- Inhalation : Health injuries are not known or expected under normal use.
- Chronic Exposure : Health injuries are not known or expected under normal use.

#### Experience with human exposure

##### Product AS SOLD

- Eye contact : Redness, Pain, Corrosion
- Skin contact : Redness, Pain, Corrosion
- Ingestion : Corrosion, Abdominal pain
- Inhalation : Respiratory irritation, Cough

##### Product AT USE DILUTION

- Eye contact : No symptoms known or expected.
- Skin contact : No symptoms known or expected.

# SAFETY DATA SHEET

## Tri-Star L2000 XP

Ingestion : No symptoms known or expected.  
Inhalation : No symptoms known or expected.

### Toxicity

#### Product AS SOLD

Acute oral toxicity : Acute toxicity estimate > 5,000 mg/kg  
Acute inhalation toxicity : no data available  
Acute dermal toxicity : no data available  
Skin corrosion/irritation : no data available  
Serious eye damage/eye irritation : no data available  
Respiratory or skin sensitization : no data available  
Carcinogenicity : no data available  
Reproductive effects : no data available  
Germ cell mutagenicity : no data available  
Teratogenicity : no data available  
STOT-single exposure : no data available  
STOT-repeated exposure : no data available  
Aspiration toxicity : no data available

#### Ingredients

Acute dermal toxicity : alcohols, c12-16, ethoxylated  
LD50 rabbit: > 2,000 mg/kg

## SECTION 12. ECOLOGICAL INFORMATION

#### Product AS SOLD

##### Ecotoxicity

Environmental Effects : Harmful to aquatic life.

##### Product

Toxicity to fish : no data available  
Toxicity to daphnia and other aquatic invertebrates : no data available  
Toxicity to algae : no data available

##### Ingredients

Toxicity to fish : alcohols, c12-16, ethoxylated  
96 h LC50 Fish: 1.5 mg/l

##### Ingredients

Toxicity to daphnia and other aquatic invertebrates : sodium hydroxide  
48 h EC50: 40 mg/l  
  
poly(oxy-1,2-ethanediyl), a-(2-propylheptyl)-w-hydroxy-  
48 h EC50 Daphnia : 10 mg/l

# SAFETY DATA SHEET

## Tri-Star L2000 XP

### Persistence and degradability

Taking into consideration the properties of several ingredients, the product is estimated to be biodegradable according to OECD classification.

### Bioaccumulative potential

no data available

### Mobility in soil

no data available

### Other adverse effects

no data available

## SECTION 13. DISPOSAL CONSIDERATIONS

### Product AS SOLD

#### Disposal methods

- : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

#### Disposal considerations

- : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

RCRA - Resource Conservation and Recovery Authorization Act Hazardous waste

- : D002 (Corrosive)

### Product AT USE DILUTION

#### Disposal methods

- : Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

#### Disposal considerations

- : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

## SECTION 14. TRANSPORT INFORMATION

### Product AS SOLD

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

#### Land transport (DOT)

- UN number : 1824
- Description of the goods : Sodium hydroxide solution
- Class : 8
- Packing group : II
- Environmentally hazardous : no

#### Sea transport (IMDG/IMO)

- UN number : 1824

# SAFETY DATA SHEET

Tri-Star L2000 XP

Description of the goods : SODIUM HYDROXIDE SOLUTION  
Class : 8  
Packing group : II  
Marine pollutant : no

## Product AT USE DILUTION

Not intended for transport

## SECTION 15. REGULATORY INFORMATION

### Product AS SOLD

### EPCRA - Emergency Planning and Community Right-to-Know

#### CERCLA Reportable Quantity

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
sodium hydroxide	1310-73-2	1000	4441

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Acute Health Hazard

**SARA 302** : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

### The ingredients of this product are reported in the following inventories:

**1907/2006 (EU)** :  
not determined

**Switzerland. New notified substances and declared preparations** :  
not determined

**United States TSCA Inventory** :  
On TSCA Inventory

**Canadian Domestic Substances List (DSL)** :  
All components of this product are on the Canadian DSL.

**Australia Inventory of Chemical Substances (AICS)** :  
not determined

**New Zealand. Inventory of Chemical Substances** :  
not determined

**Japan. ENCS - Existing and New Chemical Substances Inventory** :  
not determined

**Japan. ISHL - Inventory of Chemical Substances (METI)** :



# SAFETY DATA SHEET

## Tri-Star L2000 XP

not determined

**Korea. Korean Existing Chemicals Inventory (KECI) :**  
not determined

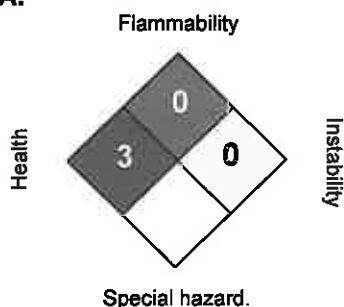
**Philippines Inventory of Chemicals and Chemical Substances (PICCS) :**  
not determined

**China. Inventory of Existing Chemical Substances in China (IECSC) :**  
not determined

### SECTION 16. OTHER INFORMATION

#### Product AS SOLD

##### NFPA:



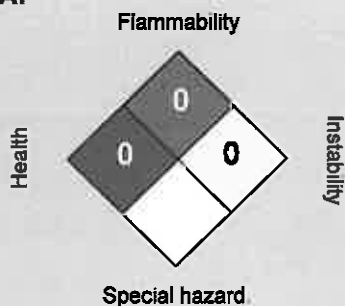
##### HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

#### Product AT USE DILUTION

##### NFPA:



##### HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

Issuing date : 03/14/2014  
Version : 1.2  
Prepared by : Regulatory Affairs

**REVISED INFORMATION:** Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : LAUNDRI DESTAINER

Other means of identification : not applicable

Recommended use : Bleach

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 0.0 % - 0.14 %

Company : Ecolab Inc.  
370 N. Wabasha Street  
St. Paul, Minnesota USA 55102  
1-800-352-5326

Emergency telephone : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date : 03/24/2014

**SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification**

**Product AS SOLD**

Skin corrosion : Category 1A  
Serious eye damage : Category 1

**Product AT USE DILUTION**

Not a hazardous substance or mixture.

**GHS Label element**

**Product AS SOLD**

Hazard pictograms



Signal Word : **Danger**

Hazard Statements : **Causes severe skin burns and eye damage.**

Precautionary Statements : **Prevention:**  
Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection. Mixing this product with acid or ammonia releases chlorine gas.  
**Response:**  
IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. Wash contaminated clothing before reuse.  
**Storage:**

# SAFETY DATA SHEET

## LAUNDRI DESTAINER

Store locked up.

**Disposal:**

Dispose of contents/ container to an approved waste disposal plant.

### Product AT USE DILUTION

**Precautionary Statements**

**Prevention:**

Wash hands thoroughly after handling

**Response:**

Get medical advice/ attention if you feel unwell

**Storage:**

Store in accordance with local regulations.

**Other hazards**

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Product AS SOLD

Pure substance/mixture : Mixture

**Chemical Name**

sodium hypochlorite

**CAS-No.**

7681-52-9

**Concentration (%)**

10 - 30

### Product AT USE DILUTION

No hazardous ingredients

## SECTION 4. FIRST AID MEASURES

### Product AS SOLD

In case of eye contact

: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

In case of skin contact

: Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

If swallowed

: Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

If inhaled

: Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

Protection of first-aiders

: If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Notes to physician

: Treat symptomatically.

### Product AT USE DILUTION

In case of eye contact

: Rinse with plenty of water.

In case of skin contact

: Rinse with plenty of water.

If swallowed

: Rinse mouth. Get medical attention if symptoms occur.

If inhaled

: Get medical attention if symptoms occur.

# SAFETY DATA SHEET

## LAUNDRI DESTAINER

See toxicological information (Section 11)

### SECTION 5. FIRE-FIGHTING MEASURES

#### Product AS SOLD

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Not flammable or combustible.
- Hazardous combustion products : Carbon oxides
- Special protective equipment for fire-fighters : Use personal protective equipment.
- Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Product AS SOLD

- Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not allow contact with soil, surface or ground water.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

#### Product AT USE DILUTION

- Personal precautions, protective equipment and emergency procedures : Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not allow contact with soil, surface or ground water.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

### SECTION 7. HANDLING AND STORAGE

# SAFETY DATA SHEET

## LAUNDRI DESTAINER

### Product AS SOLD

Advice on safe handling : Do not ingest. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling. Use only with adequate ventilation. Mixing this product with acid or ammonia releases chlorine gas.

Conditions for safe storage : Keep in a cool, well-ventilated place. Do not store near acids. Keep away from reducing agents. Keep away from combustible material. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

Storage temperature : -15 °C to 40 °C

### Product AT USE DILUTION

Advice on safe handling : Wash hands thoroughly after handling. Use only with adequate ventilation.

Conditions for safe storage : Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Product AS SOLD

#### Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
sodium hypochlorite	7681-52-9	STEL	2 mg/m <sup>3</sup>	WEEL
chlorine	7782-50-5	TWA	0.5 ppm	ACGIH
		STEL	1 ppm	ACGIH
		Ceiling	0.5 ppm 1.45 mg/m <sup>3</sup>	NIOSH REL
		C	1 ppm 3 mg/m <sup>3</sup>	OSHA Z1
sodium hypochlorite	7681-52-9	STEL	2 mg/m <sup>3</sup>	WEEL

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

#### Personal protective equipment

Eye protection : Safety goggles  
Face-shield

Hand protection : Wear the following personal protective equipment:  
Standard glove type.  
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin protection : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

# SAFETY DATA SHEET

## LAUNDRI DESTAINER

practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

### Product AT USE DILUTION

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### Personal protective equipment

Eye protection : No special protective equipment required.

Hand protection : No special protective equipment required.

Skin protection : No special protective equipment required.

Respiratory protection : No personal respiratory protective equipment normally required.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	Product AS SOLD	Product AT USE DILUTION
Appearance	: liquid	liquid
Color	: light yellow	colorless
Odor	: Chlorine	Chlorine
pH	: 12.5, 100 %	7.5 - 9.0
Flash point	: not applicable	
Odor Threshold	: no data available	
Melting point/freezing point	: no data available	
Initial boiling point and boiling range	: no data available	
Evaporation rate	: no data available	
Flammability (solid, gas)	: no data available	
Upper explosion limit	: no data available	
Lower explosion limit	: no data available	
Vapor pressure	: no data available	
Relative vapor density	: no data available	
Relative density	: 1.154	
Water solubility	: no data available	
Solubility in other solvents	: no data available	
Partition coefficient: n-octanol/water	: no data available	
Autoignition temperature	: no data available	
Thermal decomposition	: no data available	
Viscosity, kinematic	: no data available	
Explosive properties	: no data available	
Oxidizing properties	: no data available	

# SAFETY DATA SHEET

## LAUNDRI DESTAINER

Molecular weight : no data available  
VOC : no data available

### SECTION 10. STABILITY AND REACTIVITY

#### Product AS SOLD

Chemical stability : Stable under normal conditions.  
Possibility of hazardous reactions : Mixing this product with acid or ammonia releases chlorine gas.  
Conditions to avoid : None known.  
Incompatible materials : Acids  
Metals  
Hazardous decomposition products : Carbon oxides

### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

#### Potential Health Effects

##### Product AS SOLD

Eyes : Causes serious eye damage.  
Skin : Causes severe skin burns.  
Ingestion : Causes digestive tract burns.  
Inhalation : May cause nose, throat, and lung irritation.  
Chronic Exposure : Health injuries are not known or expected under normal use.

##### Product AT USE DILUTION

Eyes : Health injuries are not known or expected under normal use.  
Skin : Health injuries are not known or expected under normal use.  
Ingestion : Health injuries are not known or expected under normal use.  
Inhalation : Health injuries are not known or expected under normal use.  
Chronic Exposure : Health injuries are not known or expected under normal use.

#### Experience with human exposure

##### Product AS SOLD

Eye contact : Redness, Pain, Corrosion  
Skin contact : Redness, Pain, Corrosion  
Ingestion : Corrosion, Abdominal pain  
Inhalation : Respiratory irritation, Cough

# SAFETY DATA SHEET

## LAUNDRI DESTAINER

### Product AT USE DILUTION

Eye contact	: No symptoms known or expected.
Skin contact	: No symptoms known or expected.
Ingestion	: No symptoms known or expected.
Inhalation	: No symptoms known or expected.

### Toxicity

#### Product AS SOLD

Acute oral toxicity	: no data available
Acute inhalation toxicity	: no data available
Acute dermal toxicity	: no data available
Skin corrosion/irritation	: no data available
Serious eye damage/eye irritation	: no data available
Respiratory or skin sensitization	: no data available
Carcinogenicity	: no data available
Reproductive effects	: no data available
Germ cell mutagenicity	: no data available
Teratogenicity	: no data available
STOT-single exposure	: no data available
STOT-repeated exposure	: no data available
Aspiration toxicity	: no data available

#### Ingredients

Acute oral toxicity	: sodium hypochlorite LD50 rat: 5,230 mg/kg
---------------------	--

#### Ingredients

Acute inhalation toxicity	: sodium hypochlorite 1 h LC50 rat: > 10,500 mg/l
---------------------------	--

#### Ingredients

Acute dermal toxicity	: sodium hypochlorite LD50 rabbit: > 10,000 mg/kg
-----------------------	--

## SECTION 12. ECOLOGICAL INFORMATION

### Product AS SOLD

#### Ecotoxicity

Environmental Effects	: Toxic to aquatic life.
-----------------------	--------------------------

#### Product

Toxicity to fish	: 96 h LC50 Oncorhynchus mykiss (rainbow trout) : 2.1 mg/l
------------------	--



# SAFETY DATA SHEET

## LAUNDRI DESTAINER

96 h LC50 Inland Silverside : 7.6 mg/l  
Toxicity to daphnia and other aquatic invertebrates : 48 h LC50 Americamysis bahia : 18.1 mg/l

48 h LC50 Daphnia dubia : 0.57 mg/l  
Toxicity to algae : no data available

### Persistence and degradability

no data available

### Bioaccumulative potential

no data available

### Mobility in soil

no data available

### Other adverse effects

no data available

## SECTION 13. DISPOSAL CONSIDERATIONS

### Product AS SOLD

Disposal methods : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

RCRA - Resource Conservation and Recovery Authorization Act Hazardous waste : D002 (Corrosive)

### Product AT USE DILUTION

Disposal methods : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

## SECTION 14. TRANSPORT INFORMATION

### Product AS SOLD

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

### Land transport (DOT)

UN number : 1791

# SAFETY DATA SHEET

## LAUNDRI DESTAINER

Description of the goods : Hypochlorite solutions  
Class : 8  
Packing group : III  
Environmentally hazardous : no

### Sea transport (IMDG/IMO)

UN number : 1791  
Description of the goods : HYPOCHLORITE SOLUTION  
Class : 8  
Packing group : III  
Marine pollutant : yes

### Product AT USE DILUTION

Not intended for transport

## SECTION 15. REGULATORY INFORMATION

### Product AS SOLD

#### EPCRA - Emergency Planning and Community Right-to-Know

##### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

##### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Acute Health Hazard

**SARA 302** : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

### The ingredients of this product are reported in the following inventories:

**1907/2006 (EU)** :  
not determined

### Switzerland. New notified substances and declared preparations :

The mixture contains substances listed on the Swiss Inventory On the inventory, or in compliance with the inventory

**United States TSCA Inventory** :  
On TSCA Inventory

**Canadian Domestic Substances List (DSL)** :  
All components of this product are on the Canadian DSL.

**Australia Inventory of Chemical Substances (AICS)** :  
On the inventory, or in compliance with the inventory

# SAFETY DATA SHEET

## LAUNDRI DESTAINER

### New Zealand. Inventory of Chemical Substances :

On the inventory, or in compliance with the inventory

### Japan. ENCS - Existing and New Chemical Substances Inventory :

not determined

### Japan. ISHL - Inventory of Chemical Substances (METI) :

On the inventory, or in compliance with the inventory

### Korea. Korean Existing Chemicals Inventory (KECI) :

On the inventory, or in compliance with the inventory

### Philippines Inventory of Chemicals and Chemical Substances (PICCS) :

On the inventory, or in compliance with the inventory

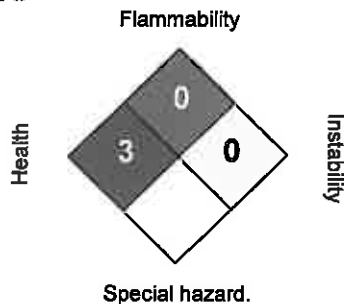
### China. Inventory of Existing Chemical Substances in China (IECSC) :

On the inventory, or in compliance with the inventory

## SECTION 16. OTHER INFORMATION

### Product AS SOLD

#### NFPA:



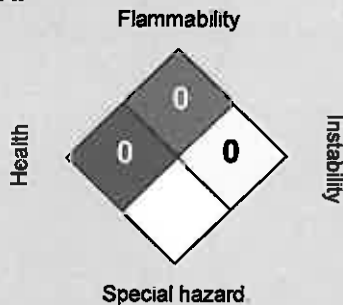
#### HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

### Product AT USE DILUTION

#### NFPA:



#### HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

Issuing date : 03/24/2014  
Version : 1.0  
Prepared by : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

# **SAFETY DATA SHEET**

## **LAUNDRI DESTAINER**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : TRI-STAR SO FRESH

Other means of identification : Not applicable

Recommended use : Laundry softener

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 0.03 % - 0.05 %

Company : Ecolab Inc.  
370 N. Wabasha Street  
St. Paul, Minnesota USA 55102  
1-800-352-5326

Emergency telephone : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date : 10/13/2014

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification****Product AS SOLD**

Not a hazardous substance or mixture.

**Product AT USE DILUTION**

Not a hazardous substance or mixture.

**GHS Label element****Product AS SOLD**

Precautionary Statements : **Prevention:**  
Wash hands thoroughly after handling.  
**Response:**  
Get medical advice/ attention if you feel unwell.  
**Storage:**  
Store in accordance with local regulations.

**Product AT USE DILUTION**

Precautionary Statements : **Prevention:**  
Wash hands thoroughly after handling.  
**Response:**  
Get medical advice/ attention if you feel unwell.  
**Storage:**  
Store in accordance with local regulations.

Other hazards : None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Product AS SOLD**

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
Dialkyldimethyl-ammoniumchlorides	61789-80-8	1 - 5

# SAFETY DATA SHEET

## TRI-STAR SO FRESH

### Product AT USE DILUTION

No hazardous ingredients

### SECTION 4. FIRST AID MEASURES

#### Product AS SOLD

- In case of eye contact : Rinse with plenty of water.
- In case of skin contact : Rinse with plenty of water.
- If swallowed : Rinse mouth. Get medical attention if symptoms occur.
- If inhaled : Get medical attention if symptoms occur.
- Protection of first-aiders : No special precautions are necessary for first aid responders.
- Notes to physician : No specific measures identified.

#### Product AT USE DILUTION

- In case of eye contact : Rinse with plenty of water.
- In case of skin contact : Rinse with plenty of water.
- If swallowed : Rinse mouth. Get medical attention if symptoms occur.
- If inhaled : Get medical attention if symptoms occur.

See toxicological information (Section 11)

### SECTION 5. FIRE-FIGHTING MEASURES

#### Product AS SOLD

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Not flammable or combustible.
- Hazardous combustion products : Decomposition products may include the following materials:  
Carbon oxides  
Nitrogen oxides (NOx)  
Sulfur oxides  
Oxides of phosphorus
- Special protective equipment for fire-fighters : Use personal protective equipment.
- Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Product AS SOLD

- Personal precautions, : Refer to protective measures listed in sections 7 and 8.

# SAFETY DATA SHEET

## TRI-STAR SO FRESH

protective equipment and emergency procedures

Environmental precautions : No special environmental precautions required.

Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

### Product AT USE DILUTION

Personal precautions, protective equipment and emergency procedures

: Refer to protective measures listed in sections 7 and 8.

Environmental precautions

: No special environmental precautions required.

Methods and materials for containment and cleaning up

: Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

## SECTION 7. HANDLING AND STORAGE

### Product AS SOLD

Advice on safe handling : Wash hands after handling. For personal protection see section 8.

Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.

Storage temperature : 5 °C to 40 °C

### Product AT USE DILUTION

Advice on safe handling : Wash hands after handling. For personal protection see section 8.

Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Product AS SOLD

#### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Personal protective equipment

Eye protection : No special protective equipment required.

Hand protection : No special protective equipment required.

Skin protection : No special protective equipment required.

# SAFETY DATA SHEET

## TRI-STAR SO FRESH

- Respiratory protection : No personal respiratory protective equipment normally required.
- Hygiene measures : Wash hands before breaks and immediately after handling the product.

### Product AT USE DILUTION

- Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### Personal protective equipment

- Eye protection : No special protective equipment required.
- Hand protection : No special protective equipment required.
- Skin protection : No special protective equipment required.
- Respiratory protection : No personal respiratory protective equipment normally required.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	Product AS SOLD	Product AT USE DILUTION
Appearance	: liquid	liquid
Color	: opaque, green	colorless
Odor	: Perfumes, fragrances	Perfumes, fragrances
pH	: 5.0 - 9.0, 100 %	5.5 - 9.0
Flash point	: Not applicable, Does not sustain combustion.	
Odor Threshold	: No data available	
Melting point/freezing point	: No data available	
Initial boiling point and boiling range	: > 100 °C	
Evaporation rate	: No data available	
Flammability (solid, gas)	: No data available	
Upper explosion limit	: No data available	
Lower explosion limit	: No data available	
Vapor pressure	: No data available	
Relative vapor density	: No data available	
Relative density	: 0.985	
Water solubility	: partly soluble	
Solubility in other solvents	: No data available	
Partition coefficient: n-octanol/water	: No data available	
Autoignition temperature	: No data available	
Thermal decomposition	: No data available	
Viscosity, kinematic	: 76.279 mm <sup>2</sup> /s (40 °C)	
Explosive properties	: No data available	



# SAFETY DATA SHEET

## TRI-STAR SO FRESH

Oxidizing properties : No data available  
Molecular weight : No data available  
VOC : No data available

### SECTION 10. STABILITY AND REACTIVITY

#### Product AS SOLD

Chemical stability : Stable under normal conditions.  
Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.  
Conditions to avoid : None known.  
Incompatible materials : None known.  
Hazardous decomposition products : Decomposition products may include the following materials:  
Carbon oxides  
Nitrogen oxides (NOx)  
Sulfur oxides  
Oxides of phosphorus

### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

#### Potential Health Effects

##### Product AS SOLD

Eyes : Health injuries are not known or expected under normal use.  
Skin : Health injuries are not known or expected under normal use.  
Ingestion : Health injuries are not known or expected under normal use.  
Inhalation : Health injuries are not known or expected under normal use.  
Chronic Exposure : Health injuries are not known or expected under normal use.

##### Product AT USE DILUTION

Eyes : Health injuries are not known or expected under normal use.  
Skin : Health injuries are not known or expected under normal use.  
Ingestion : Health injuries are not known or expected under normal use.  
Inhalation : Health injuries are not known or expected under normal use.  
Chronic Exposure : Health injuries are not known or expected under normal use.

#### Experience with human exposure

##### Product AS SOLD

Eye contact : No symptoms known or expected.  
Skin contact : No symptoms known or expected.

# SAFETY DATA SHEET

## TRI-STAR SO FRESH

Ingestion : No symptoms known or expected.

Inhalation : No symptoms known or expected.

### Product AT USE DILUTION

Eye contact : No symptoms known or expected.

Skin contact : No symptoms known or expected.

Ingestion : No symptoms known or expected.

Inhalation : No symptoms known or expected.

### Toxicity

#### Product AS SOLD

Acute oral toxicity : Acute toxicity estimate > 5,000 mg/kg

Acute inhalation toxicity : 4 h Acute toxicity estimate : > 40 mg/l

Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg

Skin corrosion/irritation : No skin irritation

Serious eye damage/eye irritation : No eye irritation

Respiratory or skin sensitization : No data available

Carcinogenicity : No data available

Reproductive effects : No data available

Germ cell mutagenicity : No data available

Teratogenicity : No data available

STOT-single exposure : No data available

STOT-repeated exposure : No data available

Aspiration toxicity : No data available

## SECTION 12. ECOLOGICAL INFORMATION

### Product AS SOLD

#### Ecotoxicity

Environmental Effects : Toxic to aquatic life with long lasting effects.

#### Product

Toxicity to fish : No data available

Toxicity to daphnia and other aquatic invertebrates : No data available

Toxicity to algae : No data available

#### Ingredients

Toxicity to daphnia and other aquatic invertebrates : Dialkyldimethyl-ammoniumchlorides  
48 h EC50 Daphnia : 0.32 mg/l

#### Persistence and degradability

No data available

# SAFETY DATA SHEET

## TRI-STAR SO FRESH

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

### Product AS SOLD

#### Disposal methods

- ⊘ The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

#### Disposal considerations

- ⊘ Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

### Product AT USE DILUTION

#### Disposal methods

- ⊘ Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

#### Disposal considerations

- ⊘ Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

## SECTION 14. TRANSPORT INFORMATION

### Product AS SOLD

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

### Land transport (DOT)

Not dangerous goods

### Sea transport (IMDG/IMO)

Not dangerous goods

### Product AT USE DILUTION

Not intended for transport.

## SECTION 15. REGULATORY INFORMATION

### Product AS SOLD

EPCRA - Emergency Planning and Community Right-to-Know

### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

# SAFETY DATA SHEET

## TRI-STAR SO FRESH

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : No SARA Hazards

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

**The ingredients of this product are reported in the following inventories:**

**United States TSCA Inventory :**  
On TSCA Inventory

**Canadian Domestic Substances List (DSL) :**  
All components of this product are on the Canadian DSL.

**Australia Inventory of Chemical Substances (AICS) :**  
not determined

**New Zealand. Inventory of Chemical Substances :**  
not determined

**Japan. ENCS - Existing and New Chemical Substances Inventory :**  
not determined

**Japan. ISHL - Inventory of Chemical Substances (METI) :**  
not determined

**Korea. Korean Existing Chemicals Inventory (KECI) :**  
not determined

**Philippines Inventory of Chemicals and Chemical Substances (PICCS) :**  
not determined

**China. Inventory of Existing Chemical Substances in China (IECSC) :**  
not determined

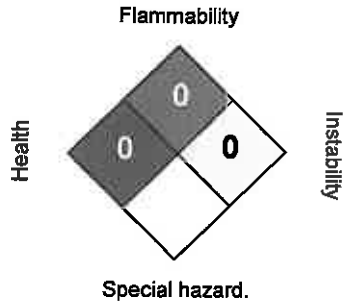
## SECTION 16. OTHER INFORMATION

**Product AS SOLD**

# SAFETY DATA SHEET

## TRI-STAR SO FRESH

### NFPA:



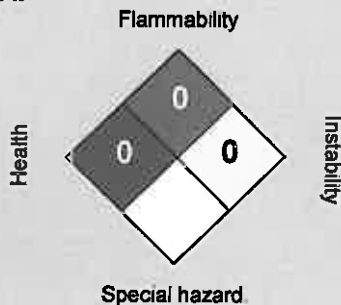
### HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

### Product AT USE DILUTION

#### NFPA:



#### HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

Issuing date : 10/13/2014  
Version : 1.0  
Prepared by : Regulatory Affairs

**REVISED INFORMATION:** Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

# SAFETY DATA SHEET

## LAUNDRI DRY BLEACH

### Section 1. Chemical product and company identification

**Product name** : LAUNDRI DRY BLEACH  
**Recommended use and restrictions** : Bleach  
Use only for the purpose on the product label.

**Product dilution information** : Up to 5.8 oz/50 gal or 0.9 mL/L in water

**Supplier's information** : Ecolab Inc. Institutional Division  
370 N. Wabasha Street  
St. Paul, MN 55102  
1-800-352-5326

**Code** : 912907

**Date of issue** : 02 Dec 2013  
EMERGENCY HEALTH INFORMATION: 1-800-328-0026  
Outside United States and Canada CALL 1-651-222-5352 (in USA)

### Section 2. Hazards identification

**GHS Classification** : **Product AS SOLD**  
OXIDIZING SOLIDS - Category 1  
COMBUSTIBLE DUSTS  
SERIOUS EYE DAMAGE/ EYE IRRITATION -  
Category 1

#### GHS label elements

**Signal word** : Danger

**Symbol** :

**Hazard statements** : May cause fire or explosion; strong oxidizer.  
May form combustible dust concentrations in air.  
Causes serious eye damage.

#### Precautionary statements

**Prevention** : Wear fire resistant clothing. Wear eye or face protection. Keep away from heat. - No smoking. Keep away from clothing, incompatible materials and combustible materials. Take any precaution to avoid mixing with combustibles and other incompatible materials. Avoid release to the environment. Wash hands thoroughly after handling. Mixing this product with acid or ammonia releases chlorine gas.

**Response** :

#### **Product AT USE DILUTION**

Not classified.

No signal word.

No known significant effects or critical hazards.

Wash thoroughly after handling.

## Section 2. Hazards identification

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician. IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

Get medical attention if symptoms appear.

- Storage** : No other specific measures identified.
- Disposal** : See section 13 for waste disposal information.
- Other hazards** : Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

No other specific measures identified.  
See section 13 for waste disposal information.  
None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

**Product AS SOLD**

Hazardous ingredients	Concentration Range (%)	CAS number
SODIUM CHLORIDE	>50	7647-14-5
SODIUM CARBONATE	5 - 20	497-19-8
troclosene sodium, dihydrate	5 - 20	51580-86-0

**Product AT USE DILUTION**

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

## Section 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
<b>Eye contact</b>	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.	No known effect after eye contact. Rinse with water for a few minutes.
<b>Skin contact</b>	: No known effect after skin contact. Rinse with water for a few minutes.	No known effect after skin contact. Rinse with water for a few minutes.
<b>Inhalation</b>	: No special measures required. Treat symptomatically.	No special measures required. Treat symptomatically.
<b>Ingestion</b>	: Get medical attention if symptoms occur.	Get medical attention if symptoms occur.
<b>Protection of first-aiders</b>	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If ventilation is inadequate, use respirator that will protect against dust/mist. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	
<b>Notes to physician</b>	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.	
<b>See toxicological information (section 11)</b>		

## Section 5. Fire-fighting measures

**Product AS SOLD**

- Suitable fire extinguishing media** : Use dry chemical powder.
- Specific hazards arising from the chemical** : Strongly oxidizing material. May cause fire or explosion. Fine dust clouds may form explosive mixtures with air. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
 carbon dioxide  
 carbon monoxide  
 nitrogen oxides  
 halogenated compounds  
 metal oxide/oxides
- Specific fire-fighting methods** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Risk of explosion. If large quantities are involved in a major fire, evacuate the area. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Fight fire from protected location or maximum possible distance.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

	<b>Product AS SOLD</b>	<b>Product AT USE DILUTION</b>
<b>Personal precautions</b>	: Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Do not touch or walk through spilled material.	Use personal protective equipment as required.
<b>Environmental precautions</b>	: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.	Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
<b>Methods for cleaning up</b>	: Collect spillage. Use a water rinse for final clean-up.	Use a water rinse for final clean-up.

## Section 7. Handling and storage

	<b>Product AS SOLD</b>	<b>Product AT USE DILUTION</b>
<b>Handling</b>	: Do not get in eyes or on skin or clothing. Do not breathe dust. Keep away from combustible materials. Keep only in original container. Use only with adequate ventilation. Wash thoroughly after handling. Mixing this product with acid or ammonia releases chlorine gas.	Wash thoroughly after handling.
<b>Storage</b>	: Keep out of reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area. Separate from reducing agents and combustible materials.  Store between the following temperatures: 0 and 50°C	Keep out of reach of children.



## Section 8. Exposure controls/personal protection

### Control parameters

Ingredient name	Exposure limits
chlorine	<b>ACGIH TLV (United States, 3/2012).</b> STEL: 2.9 mg/m <sup>3</sup> 15 minutes. STEL: 1 ppm 15 minutes. TWA: 1.5 mg/m <sup>3</sup> 8 hours. TWA: 0.5 ppm 8 hours. <b>OSHA PEL (United States, 6/2010).</b> CEIL: 3 mg/m <sup>3</sup> CEIL: 1 ppm <b>NIOSH REL (United States, 6/2009).</b> CEIL: 0.5 ppm 15 minutes. CEIL: 1.45 mg/m <sup>3</sup> 15 minutes.

	Product AS SOLD	Product AT USE DILUTION
<b>Appropriate engineering controls</b>	: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
<b>Personal protection</b>		
<b>Eye protection</b>	: Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.	No protective equipment is needed under normal use conditions.
<b>Hand protection</b>	: No protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
<b>Skin protection</b>	: No protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
<b>Respiratory protection</b>	: A respirator is not needed under normal and intended conditions of product use.	A respirator is not needed under normal and intended conditions of product use.
<b>Hygiene measures</b>	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.	

## Section 9. Physical and chemical properties

	Product AS SOLD	Product AT USE DILUTION
<b>Physical state</b>	: Powder	Liquid.
<b>Color</b>	: White	Colorless
<b>Odor</b>	: chlorine	chlorine
<b>pH</b>	: 10 (1%)	9 to 10.5
<b>Flash point</b>	: > 100°C	> 100°C
<b>Explosion limits</b>	: Not available.	
<b>Flammability (solid, gas)</b>	: Not available.	
<b>Melting point</b>	: Not available.	
<b>Boiling point</b>	: >100°C (>212°F)	

## Section 9. Physical and chemical properties

<b>Evaporation rate (butyl acetate = 1)</b>	: Not available.
<b>Vapor pressure</b>	: Not available.
<b>Vapor density</b>	: Not available.
<b>Relative density</b>	: 0 (Water 1)
<b>Solubility</b>	: Soluble in the following materials: hot water. Partially soluble in the following materials: cold water.
<b>Partition coefficient: n-octanol/water</b>	: Not available.
<b>Auto-ignition temperature</b>	: Not available.
<b>Decomposition temperature</b>	: Not available.
<b>Odor threshold</b>	: Not available.
<b>Viscosity</b>	: Kinematic (room temperature): 0 cm <sup>2</sup> /s (0 cSt)

## Section 10. Stability and reactivity

### Product AS SOLD

<b>Stability</b>	: The product is stable.
<b>Possibility of hazardous reactions</b>	: Hazardous reactions or instability may occur under certain conditions of storage or use. Conditions may include the following: contact with combustible materials Reactions may include the following: risk of explosion
<b>Conditions to avoid</b>	: Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation.
<b>Materials to avoid</b>	: Highly reactive or incompatible with the following materials: acids. Reactive or incompatible with the following materials: organic materials. Slightly reactive or incompatible with the following materials: metals and alkalis. Do not allow water to enter container. Wet material may generate halogenated gas that may pressurize sealed containers. Mixing this product with acid or ammonia releases chlorine gas.
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

**Route of exposure** : Skin contact, Eye contact, Ingestion

### Product AS SOLD

#### Symptoms

<b>Eye contact</b>	: Adverse symptoms may include the following: pain watering redness
<b>Skin contact</b>	: No specific data.
<b>Inhalation</b>	: Adverse symptoms may include the following: respiratory tract irritation coughing

### Product AT USE DILUTION

No specific data.

No specific data.

No specific data.

## Section 11. Toxicological information

**Ingestion** : No specific data.

**Acute toxicity**

**Eye contact** : Causes serious eye damage.

**Skin contact** : No known significant effects or critical hazards.

**Inhalation** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

**Ingestion** : No known significant effects or critical hazards.

No specific data.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

### Toxicity data

#### Product/ingredient name

sodium chloride	LC50 Inhalation	Rat	>10.5 mg/l
	Dusts and mists		
	LD50 Dermal	Rabbit	>10000 mg/kg
sodium carbonate	LD50 Oral	Rat	3000 mg/kg
	LC50 Inhalation	Rat	1.15 mg/l
	Dusts and mists		
troclosene sodium, dihydrate	LD50 Dermal	Rabbit	>2000 mg/kg
	LD50 Oral	Rat	2800 mg/kg
	LD50 Dermal	Rat	>5000 mg/kg
	LD50 Oral	Rat	1823 mg/kg

### Chronic toxicity

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

## Section 12. Ecological information

### Product AS SOLD

**Ecotoxicity** : Water polluting material. May be harmful to the environment if released in large quantities. This material is toxic to aquatic life.

### Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
sodium chloride	Acute LC50 5840 mg/l	Fish	96 hours
sodium carbonate	Acute EC50 200 mg/l	Daphnia	48 hours
troclosene sodium, dihydrate	Acute EC50 0.196 mg/l	Daphnia	48 hours

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

### Product AS SOLD

**Disposal methods** : Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations.

**RCRA classification** : Unused product is D001 (Ignitable)

### Product AT USE DILUTION

Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

## Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

**DOT**

DOT Classification : Not regulated.

**IMO/IMDG**

IMO/IMDG Classification : Not regulated.

For transport in bulk, see shipping documents for specific transportation information.

**Product AT USE DILUTION**

Not intended for transport.

## Section 15. Regulatory information

**Product AS SOLD**

**U.S. Federal regulations**

TSCA 8(b) inventory : All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No listed substance

SARA 302/304 emergency planning and notification: No listed substance

<b>SARA 313</b>	<b>Product name</b>	<b>CAS number</b>	<b>Concentration</b>
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Form R - Reporting requirements : No listed substance

California Prop. 65 : No listed substance

## Section 16. Other information

**Product AS SOLD**

Hazardous Material Information System (U.S.A.) :

Health	3
Flammability	0
Physical hazards	1

National Fire Protection Association (U.S.A.) :



Date of issue : 02 Dec 2013  
 Prepared by : Regulatory Affairs  
 1-800-352-5326

**Notice to reader**

**Product AT USE DILUTION**

Health	0
Flammability	0
Physical hazards	0



## **Section 16. Other information**

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

# SAFETY DATA SHEET

## X-STATIC WOODY FLORAL

### Section 1. Chemical product and company identification

**Product name** : X-STATIC WOODY FLORAL  
**Recommended use and restrictions** : Laundry product  
Use only for the purpose on the product label.

**Product dilution information** : Not applicable

**Supplier's information** : Ecolab Inc. Institutional Division  
370 N. Wabasha Street  
St. Paul, MN 55102  
1-800-352-5326  
**Code** : 911739  
**Date of issue** : 24 Apr 2013  
EMERGENCY HEALTH INFORMATION: 1-800-328-0026  
Outside United States and Canada CALL 1-651-222-5352 (in USA)

### Section 2. Hazards identification

**GHS Classification** : **Product AS SOLD**  
SKIN CORROSION/IRRITATION - Category 2  
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A  
AQUATIC TOXICITY (ACUTE) - Category 3

#### GHS label elements

**Signal word** : Warning  
**Symbol** :



**Hazard statements** : Causes serious eye irritation.  
Causes skin irritation.  
Harmful to aquatic life.

#### Precautionary statements

**Prevention** : Wear protective gloves. Wear eye or face protection. Avoid release to the environment. Wash hands thoroughly after handling.  
**Response** : IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.  
**Storage** : No other specific measures identified.  
**Disposal** : See section 13 for waste disposal information.  
**Other hazards** : None known.

**Product AT USE DILUTION**  
Product is sold ready to use.

## Section 2. Hazards identification

## Section 3. Composition/information on ingredients

Substance/mixture : Mixture

### Product AS SOLD

Hazardous ingredients	Concentration Range (%)	CAS number
poly(oxy-1,2-ethanediyl), alpha-[2-[bis(2-aminoethyl) methylammonio]ethyl]-omega-[hydroxy-, n,n'-bis (hydrogenated tallow acyl) derivs., me sulfates (salts)	20 - 50	68389-89-9
ETHYLENE DISTEARAMIDE	20 - 50	110-30-5
Proprietary	1 - 5	NJ 0109117390805

### Product AT USE DILUTION

Hazardous ingredients	Concentration Range (%)	CAS number
Product is sold ready to use.		

## Section 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
<b>Eye contact</b>	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.	Product is sold ready to use.
<b>Skin contact</b>	: Take off contaminated clothing. Wash with plenty of soap and water. Get medical attention if irritation persists. Wash clothing before reuse. Clean shoes thoroughly before reuse.	
<b>Inhalation</b>	: No special measures required. Treat symptomatically.	
<b>Ingestion</b>	: Get medical attention if symptoms occur.	
<b>Protection of first-aiders</b>	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.	
<b>Notes to physician</b>	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.	

See toxicological information (section 11)

## Section 5. Fire-fighting measures

### Product AS SOLD

<b>Suitable fire extinguishing media</b>	: Use water spray, fog or foam.
<b>Specific hazards arising from the chemical</b>	: This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
<b>Hazardous thermal decomposition products</b>	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
<b>Specific fire-fighting methods</b>	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Special protective equipment for fire-fighters</b>	:

## Section 5. Fire-fighting measures

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

	Product AS SOLD
<b>Personal precautions</b>	: Use personal protective equipment as required.
<b>Environmental precautions</b>	: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
<b>Methods for cleaning up</b>	: Collect spillage. Use a water rinse for final clean-up.

**Product AT USE DILUTION**  
Product is sold ready to use.

## Section 7. Handling and storage

	Product AS SOLD
<b>Handling</b>	: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
<b>Storage</b>	: Keep out of reach of children. Keep container tightly closed.  Store between the following temperatures: 0 and 50°C

**Product AT USE DILUTION**  
Product is sold ready to use.

## Section 8. Exposure controls/personal protection

### Control parameters

Ingredient name	Exposure limits
None.	

	Product AS SOLD	Product AT USE DILUTION
<b>Appropriate engineering controls</b>	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.	Product is sold ready to use.
<b>Personal protection</b>		
<b>Eye protection</b>	: Wear eye protection.	
<b>Hand protection</b>	: Use chemical-resistant, impervious gloves.	
<b>Skin protection</b>	: No protective equipment is needed under normal use conditions.	
<b>Respiratory protection</b>	: A respirator is not needed under normal and intended conditions of product use.	
<b>Hygiene measures</b>	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.	

## Section 9. Physical and chemical properties

	Product AS SOLD	Product AT USE DILUTION
<b>Physical state</b>	: Waxy solid	Product is sold ready to use.
<b>Color</b>	: Beige [Light]	
<b>Odor</b>	: Fragrance-like	
<b>pH</b>	: 5 to 7 (1%)	
<b>Flash point</b>	: > 100°C	



## Section 9. Physical and chemical properties

<b>Explosion limits</b>	: Not available.
<b>Flammability (solid, gas)</b>	: Not available.
<b>Melting point</b>	: Not available.
<b>Boiling point</b>	: Not available.
<b>Evaporation rate (butyl acetate = 1)</b>	: Not available.
<b>Vapor pressure</b>	: Not available.
<b>Vapor density</b>	: Not available.
<b>Relative density</b>	: 1.1 to 1.3 (Water = 1)
<b>Solubility</b>	: Very slightly soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: Not available.
<b>Auto-ignition temperature</b>	: Not available.
<b>Decomposition temperature</b>	: Not available.
<b>Odor threshold</b>	: Not available.
<b>Viscosity</b>	: Not available.

## Section 10. Stability and reactivity

### Product AS SOLD

<b>Stability</b>	: The product is stable.
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: No specific data.
<b>Materials to avoid</b>	: Not available.
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

**Route of exposure** : Skin contact, Eye contact, Ingestion

### Product AS SOLD

#### Symptoms

<b>Eye contact</b>	: Adverse symptoms may include the following: pain or irritation watering redness
<b>Skin contact</b>	: Adverse symptoms may include the following: irritation redness
<b>Inhalation</b>	: No specific data.
<b>Ingestion</b>	: No specific data.

#### Acute toxicity

<b>Eye contact</b>	: Causes serious eye irritation.
<b>Skin contact</b>	: Causes skin irritation.
<b>inhalation</b>	: No known significant effects or critical hazards.
<b>Ingestion</b>	: No known significant effects or critical hazards.

### Product AT USE DILUTION

Product is sold ready to use.





**STAIN BLASTER MULTI-PURPOSE**

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : STAIN BLASTER MULTI-PURPOSE

Other means of identification : Not applicable

Recommended use : Laundry product

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : Product is sold ready to use.

Company : Ecolab Inc.  
370 N. Wabasha Street  
St. Paul, Minnesota USA 55102  
1-800-352-5326

Emergency telephone : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date : 01/27/2015

**SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification**

Skin irritation : Category 2  
 Eye irritation : Category 2B  
 Skin sensitization : Category 1

**GHS Label element**

Hazard pictograms :



Signal Word : Warning

Hazard Statements : Causes skin and eye irritation.  
May cause an allergic skin reaction.

Precautionary Statements : **Prevention:**  
Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves.  
**Response:**  
IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.  
**Disposal:**  
Dispose of contents/ container to an approved waste disposal plant.

Other hazards : None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

# SAFETY DATA SHEET

## STAIN BLASTER MULTI-PURPOSE

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
distillates (petroleum), hydrotreated light	64742-47-8	10 - 30
Propylene glycol	57-55-6	10 - 30
alcohol ethoxylate	68551-12-2	10 - 30
Linear Alkylbenzenesulphonates	27323-41-7	10 - 30
fatty acids, coco, compds. with triethanolamine	61790-64-5	5 - 10
poly(oxy-1,2-ethanediyl), a-(2-propylheptyl)-w-hydroxy-	160875-66-1	1 - 5
triethanolamine	102-71-6	1 - 5
d-Limonene	5989-27-5	1 - 5
potassium hydroxide	1310-58-3	1 - 5

### SECTION 4. FIRST AID MEASURES

- In case of eye contact : Rinse with plenty of water.
- In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
- If swallowed : Rinse mouth. Get medical attention if symptoms occur.
- If inhaled : Get medical attention if symptoms occur.
- Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Notes to physician : Treat symptomatically.
- Most important symptoms and effects, both acute and delayed : See Section 11 for more detailed information on health effects and symptoms.

### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Not flammable or combustible.
- Hazardous combustion products : Decomposition products may include the following materials:  
Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Sulfur oxides  
Oxides of phosphorus
- Special protective equipment for fire-fighters : Use personal protective equipment.
- Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

# SAFETY DATA SHEET

## STAIN BLASTER MULTI-PURPOSE

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not allow contact with soil, surface or ground water.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

### SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling.
- Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.
- Storage temperature : 0 °C to 50 °C

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
distillates (petroleum), hydrotreated light	64742-47-8	TWA	500 ppm 2,000 mg/m <sup>3</sup>	OSHA Z1
		TWA	200 mg/m <sup>3</sup>	ACGIH
Propylene glycol	57-55-6	TWA	10 mg/m <sup>3</sup>	WEEL
triethanolamine	102-71-6	TWA	5 mg/m <sup>3</sup>	ACGIH
d-Limonene	5989-27-5	TWA	20 ppm	ACGIH
potassium hydroxide	1310-58-3	Ceiling	2 mg/m <sup>3</sup>	ACGIH
		Ceiling	2 mg/m <sup>3</sup>	NIOSH REL

- Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

#### Personal protective equipment

- Eye protection : No special protective equipment required.
- Hand protection : Wear the following personal protective equipment:  
Standard glove type.  
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- Skin protection : No special protective equipment required.
- Respiratory protection : No personal respiratory protective equipment normally required.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety

# SAFETY DATA SHEET

## STAIN BLASTER MULTI-PURPOSE

practice. Wash face, hands and any exposed skin thoroughly after handling.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: clear, off-white
Odor	: citrus
pH	: 7.5 - 8.5, 100 %
Flash point	: Not applicable, Does not sustain combustion.
Odor Threshold	: No data available
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: > 100 °C
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapor pressure	: No data available
Relative vapor density	: No data available
Relative density	: 0.95 - 1.05
Water solubility	: slightly soluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, kinematic	: 132 mm <sup>2</sup> /s (40 °C)
Explosive properties	: No data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Molecular weight	: No data available
VOC	: No data available

### SECTION 10. STABILITY AND REACTIVITY

Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: None known.
Incompatible materials	: Acids
Hazardous decomposition products	: Decomposition products may include the following materials: Carbon oxides

# SAFETY DATA SHEET

## STAIN BLASTER MULTI-PURPOSE

Nitrogen oxides (NO<sub>x</sub>)  
Sulfur oxides  
Oxides of phosphorus

### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

#### Potential Health Effects

Eyes : Causes eye irritation.  
Skin : Causes skin irritation. May cause allergic skin reaction.  
Ingestion : Health injuries are not known or expected under normal use.  
Inhalation : Health injuries are not known or expected under normal use.  
Chronic Exposure : Health injuries are not known or expected under normal use.

#### Experience with human exposure

Eye contact : Redness, Irritation  
Skin contact : Redness, Irritation, Allergic reactions  
Ingestion : No symptoms known or expected.  
Inhalation : No symptoms known or expected.

#### Toxicity

Acute oral toxicity : Acute toxicity estimate > 5,000 mg/kg  
Acute inhalation toxicity : No data available  
Acute dermal toxicity : No data available  
Skin corrosion/irritation : No data available  
Serious eye damage/eye irritation : Mild eye irritation  
Respiratory or skin sensitization : No data available

#### Carcinogenicity

IARC : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA : No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP : No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive effects : No data available

Germ cell mutagenicity : No data available



# SAFETY DATA SHEET

## STAIN BLASTER MULTI-PURPOSE

Teratogenicity : No data available

STOT-single exposure : No data available

STOT-repeated exposure : No data available

Aspiration toxicity : No data available

### Ingredients

Acute inhalation toxicity : Propylene glycol  
4 h LC50 Rat: > 158.5 mg/l

### Ingredients

Acute dermal toxicity : alcohol ethoxylate  
LD50 Rabbit > 2,000 mg/kg

d-Limonene  
LD50 Rabbit: > 5,000 mg/kg

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Environmental Effects : This product has no known ecotoxicological effects.

### Product

Toxicity to fish : 96 h LC50: 5.7 mg/l

Toxicity to daphnia and other aquatic invertebrates : No data available

Toxicity to algae : No data available

### Ingredients

Toxicity to daphnia and other aquatic invertebrates : distillates (petroleum), hydrotreated light  
72 h EC50: > 1,000 mg/l

Propylene glycol  
48 h EC50: 18,340 mg/l

poly(oxy-1,2-ethanediyl), a-(2-propylheptyl)-w-hydroxy-  
48 h EC50 Daphnia: 10 mg/l

### Ingredients

Toxicity to algae : distillates (petroleum), hydrotreated light  
48 h EC50: > 1,000 mg/l

Propylene glycol  
96 h EC50: 19,000 mg/l

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

## Section 10. Stability and reactivity

### Product AS SOLD

- Stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : No specific data.
- Materials to avoid** : Extremely reactive or incompatible with the following materials: acids.  
Reactive or incompatible with the following materials: metals.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

**Route of exposure** : Skin contact, Eye contact, Inhalation, Ingestion

### Product AS SOLD

#### Symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Inhalation** : Adverse symptoms may include the following:  
coughing  
Respiratory tract irritation
- Ingestion** : Adverse symptoms may include the following:  
stomach pains
- Acute toxicity**
- Eye contact** : Causes serious eye damage.
- Skin contact** : Causes severe burns.
- Inhalation** : May cause respiratory irritation.
- Ingestion** : May cause burns to mouth, throat and stomach.

#### Toxicity data

##### Product/ingredient name

Not applicable.

#### Chronic toxicity

- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

### Product AT USE DILUTION

Product is sold ready to use.

## Section 12. Ecological information

### Product AS SOLD

**Ecotoxicity** : This material is harmful to aquatic life.

#### Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
sodium hydroxide	Acute EC50 40 mg/l	Daphnia	48 hours

**Other adverse effects** : No known significant effects or critical hazards.

# SAFETY DATA SHEET

## STAIN BLASTER MULTI-PURPOSE

### Other adverse effects

No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal methods** : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

**Disposal considerations** : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.

## SECTION 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

### Land transport (DOT)

Not dangerous goods

### Sea transport (IMDG/IMO)

Not dangerous goods

## SECTION 15. REGULATORY INFORMATION

### EPCRA - Emergency Planning and Community Right-to-Know

#### CERCLA Reportable Quantity

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Linear Alkylbenzenesulphonates	27323-41-7	1000	8678

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Acute Health Hazard

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

**The ingredients of this product are reported in the following inventories:**

# SAFETY DATA SHEET

## STAIN BLASTER MULTI-PURPOSE

### United States TSCA Inventory :

On TSCA Inventory

### Canadian Domestic Substances List (DSL) :

All components of this product are on the Canadian DSL.

### Australia Inventory of Chemical Substances (AICS) :

not determined

### New Zealand. Inventory of Chemical Substances :

On the inventory, or in compliance with the inventory

### Japan. ENCS - Existing and New Chemical Substances Inventory :

not determined

### Japan. ISHL - Inventory of Chemical Substances (METI) :

not determined

### Korea. Korean Existing Chemicals Inventory (KECI) :

not determined

### Philippines Inventory of Chemicals and Chemical Substances (PICCS) :

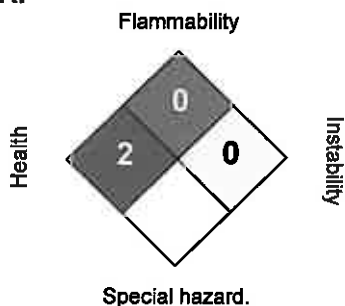
not determined

### China. Inventory of Existing Chemical Substances in China (IECSC) :

not determined

## SECTION 16. OTHER INFORMATION

### NFPA:



### HMIS III:

HEALTH	2*
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

Issuing date : 01/27/2015  
Version : 1.0  
Prepared by : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

## STAIN BLASTER SPECIALTY

### Section 1. Chemical product and company identification

**Product name** : STAIN BLASTER SPECIALTY  
**Recommended use and restrictions** : Laundry product  
 Use only for the purpose on the product label.

**Product dilution information** : Not applicable

**Supplier's information** : Ecolab Inc. Institutional Division  
 370 N. Wabasha Street  
 St. Paul, MN 55102  
 1-800-352-5326

**Code** : 915495-01

**Date of issue** : 07 Mar 2013

EMERGENCY HEALTH INFORMATION: 1-800-328-0026  
 Outside United States and Canada CALL 1-651-222-5352 (in USA)

### Section 2. Hazards identification

**GHS Classification** : **Product AS SOLD**  
 CORROSIVE TO METALS - Category 1  
 SKIN CORROSION/IRRITATION - Category 1  
 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1  
 AQUATIC TOXICITY (ACUTE) - Category 3

**GHS label elements**

**Signal word** : Danger



**Hazard statements** : May be corrosive to metals.  
 Causes severe skin burns and eye damage.  
 Harmful to aquatic life.

**Precautionary statements**

**Prevention** : Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep only in original container. Avoid release to the environment. Wash hands thoroughly after handling.

**Response** : Absorb spillage to prevent material damage. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash

**Product AT USE DILUTION**

Product is sold ready to use.

**Section 2. Hazards identification**

contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

- Storage** : Store in corrosive resistant container with a resistant inner liner.
- Disposal** : See section 13 for waste disposal information.
- Other hazards** : None known.

**Section 3. Composition/information on ingredients**

**Substance/mixture** : Mixture

**Product AS SOLD**

Hazardous ingredients	Concentration Range (%)	CAS number
SODIUM HYDROXIDE	<1	1310-73-2
TETRASODIUM EDTA	20 - 50	64-02-8
SODIUM LAURIMINODIPROPIONATE	1 - 5	14960-06-6

**Product AT USE DILUTION**

Hazardous ingredients	Concentration Range (%)	CAS number
Product is sold ready to use.		

**Section 4. First aid measures**

	Product AS SOLD	Product AT USE DILUTION
<b>Eye contact</b>	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.	Product is sold ready to use.
<b>Skin contact</b>	: Take off immediately all contaminated clothing. Rinse skin with water or shower. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.	
<b>Inhalation</b>	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.	
<b>Ingestion</b>	: Get medical attention immediately. Rinse mouth. Do not induce vomiting.	
<b>Protection of first-aiders</b>	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	
<b>Notes to physician</b>	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.	
<b>See toxicological information (section 11)</b>		

## Section 5. Fire-fighting measures

### Product AS SOLD

- Suitable fire extinguishing media** : Use water spray, fog or foam.
- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
metal oxide/oxides
- Specific fire-fighting methods** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Product AS SOLD

- Personal precautions** : Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Do not touch or walk through spilled material.
- Environmental precautions** : Avoid contact of spilled material and runoff with soil and surface waterways.
- Methods for cleaning up** : Follow company's spill procedures. Keep people away from spill. Put on appropriate personal protective equipment (see section 8). Absorb/neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Use a water rinse for final clean-up.

### Product AT USE DILUTION

Product is sold ready to use.

## Section 7. Handling and storage

### Product AS SOLD

- Handling** : Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Wash thoroughly after handling.
- Storage** : Keep out of reach of children. Keep container tightly closed.
- Store between the following temperatures: -10 and 50°C

### Product AT USE DILUTION

Product is sold ready to use.

## Section 8. Exposure controls/personal protection

### Control parameters

Ingredient name	Exposure limits
SODIUM HYDROXIDE	<b>ACGIH TLV (United States, 3/2012).</b> C: 2 mg/m <sup>3</sup> <b>OSHA PEL (United States, 6/2010).</b> TWA: 2 mg/m <sup>3</sup> 8 hours. <b>NIOSH REL (United States, 6/2009).</b> CEIL: 2 mg/m <sup>3</sup>

#### Appropriate engineering controls

##### Product AS SOLD

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

##### Product AT USE DILUTION

Product is sold ready to use.

### Personal protection

#### Eye protection

: Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.

#### Hand protection

: Use chemical-resistant, impervious gloves.

#### Skin protection

: Use synthetic apron, other protective equipment as necessary to prevent skin contact.

#### Respiratory protection

: A respirator is not needed under normal and intended conditions of product use.

#### Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

## Section 9. Physical and chemical properties

	Product AS SOLD
Physical state	: Liquid.
Color	: Clear
Odor	: Faint odor
pH	: 11.5 to 13.5 (100%)
Flash point	: > 100°C Product does not support combustion.
Explosion limits	: Not available.
Flammability (solid, gas)	: Not available.
Melting point	: Not available.
Boiling point	: >100°C (>212°F)
Evaporation rate (butyl acetate = 1)	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1.2 to 1.35 (Water = 1)

##### Product AT USE DILUTION

Product is sold ready to use.



## Section 9. Physical and chemical properties

- Solubility** : Easily soluble in the following materials: cold water and hot water.
- Partition coefficient: n-octanol/water** : Not available.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Odor threshold** : Not available.
- Viscosity** : Not available.

## Section 10. Stability and reactivity

### Product AS SOLD

- Stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : No specific data.
- Materials to avoid** : Slightly reactive or incompatible with the following materials: acids.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

- Route of exposure** : Skin contact, Eye contact, Inhalation, Ingestion

### Product AS SOLD

#### Symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Inhalation** : Adverse symptoms may include the following:  
coughing  
Respiratory tract irritation
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

#### Acute toxicity

- Eye contact** : Causes serious eye damage.
- Skin contact** : Causes severe burns.
- Inhalation** : May cause respiratory irritation.
- Ingestion** : May cause burns to mouth, throat and stomach.

#### Toxicity data

Product/ingredient name	Result	Species	Dose
acetic acid, (ethylenedinitrilo)tetra-, tetrasodium salt	LD50 Oral	Rat	1700 mg/kg
.beta.-alanine, n-(2-carboxyethyl)-n-dodecyl-, monosodium salt	LD50 Dermal	Rabbit	6800 mg/kg
	LD50 Oral	Rat	31300 mg/kg

#### Chronic toxicity

### Product AT USE DILUTION

Product is sold ready to use.

## Section 11. Toxicological information

<b>Carcinogenicity</b>	: No known significant effects or critical hazards.
<b>Mutagenicity</b>	: No known significant effects or critical hazards.
<b>Teratogenicity</b>	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
<b>Fertility effects</b>	: No known significant effects or critical hazards.

## Section 12. Ecological information

### Product AS SOLD

**Ecotoxicity** : This material is harmful to aquatic life.

### Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
acetic acid, (ethylenedinitrilo)tetra-, tetrasodium salt	Acute LC50 121 mg/l	Fish	96 hours
.beta.-alanine, n-(2-carboxyethyl)-n-dodecyl-, monosodium salt	Acute LC50 17.45 mg/l	Fish	96 hours
sodium hydroxide	Acute EC50 40 mg/l	Daphnia	48 hours

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

### Product AS SOLD

**Disposal methods** : Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations.

**RCRA classification** : Unused product is D002 (Corrosive)

### Product AT USE DILUTION

Product is sold ready to use.

## Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

### DOT

**DOT Classification** : Exempted from DOT Regulations

### IMO/IMDG

**IMO/IMDG Classification** : UN3267

**IMO/IMDG Proper shipping name** : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.  
(TETRASODIUM METHYLENEDIAMINE TETRAACETATE)

**Class** : 8

**Packing group** : III

For transport in bulk, see shipping documents for specific transportation information.

### Product AT USE DILUTION

Not intended for transport.

## Section 15. Regulatory information

Product AS SOLD

**U.S. Federal regulations**

TSCA 8(b) inventory : All components are listed or exempted.  
 SARA 302/304/311/312 extremely hazardous substances: No listed substance  
 SARA 302/304 emergency planning and notification: No listed substance

<u>SARA 313</u>	<u>Product name</u>	<u>CAS number</u>	<u>Concentration</u>
Form R - Reporting requirements	:	No listed substance	

**California Prop. 65** : No listed substance

## Section 16. Other information

Product AS SOLD

Hazardous Material Information System (U.S.A.) :

Health	*	3
Flammability		0
Physical hazards		0

National Fire Protection Association (U.S.A.) :



Date of issue : 07 Mar 2013  
 Prepared by : Regulatory Affairs  
 1-800-352-5326

**Notice to reader**

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

**66 HEAVY DUTY ALKALINE BATHROOM CLEANER AND  
DISINFECTANT****SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : 66 HEAVY DUTY ALKALINE BATHROOM CLEANER AND  
DISINFECTANT

Other means of identification : not applicable

Recommended use : Disinfectant

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 0.39 % - 4.69 %

Company : Ecolab Inc.  
370 N. Wabasha Street  
St. Paul, Minnesota USA 55102  
1-800-352-5326

Emergency telephone : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date : 06/24/2014

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification****Product AS SOLD**

Acute toxicity (Inhalation) : Category 4

Serious eye damage : Category 1

**Product AT USE DILUTION**

Eye irritation : Category 2B

**GHS Label element****Product AS SOLD**

Hazard pictograms :



Signal Word : Danger

Hazard Statements : Causes serious eye damage.  
Harmful if inhaled.

Precautionary Statements : **Prevention:**  
Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Use only outdoors or in a well-ventilated area. Wear eye protection/ face protection.  
**Response:**  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

# SAFETY DATA SHEET

## 66 HEAVY DUTY ALKALINE BATHROOM CLEANER AND DISINFECTANT

### Product AT USE DILUTION

Signal Word : Warning

Hazard Statements : Causes eye irritation.

Precautionary Statements : **Prevention:**  
Wash skin thoroughly after handling.  
**Response:**  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists. Get medical advice/ attention.

Other hazards : None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Product AS SOLD

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
ethylenediamine tetraacetate	64-02-8	10 - 30
poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-	34398-01-1	1 - 5
n-Alkyl (50% C14, 40% C12, 10% C16) Dimethyl Benzyl Ammonium Chloride	68424-85-1	2.48
acetic acid, (ethylenedinitrilo)tetra-, trisodium salt	150-38-9	1 - 5
Didecyl Dimethyl Ammonium Chloride	7173-51-5	0.52

#### Product AT USE DILUTION

Chemical Name	CAS-No.	Concentration (%)
n-Alkyl (50% C14, 40% C12, 10% C16) Dimethyl Benzyl Ammonium Chloride	68424-85-1	0.1163
Didecyl Dimethyl Ammonium Chloride	7173-51-5	0.0244

### SECTION 4. FIRST AID MEASURES

#### Product AS SOLD

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

In case of skin contact : Rinse with plenty of water.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention.

Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Notes to physician : Treat symptomatically.

#### Product AT USE DILUTION

In case of eye contact : Rinse with plenty of water.

In case of skin contact : Rinse with plenty of water.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

# SAFETY DATA SHEET

## 66 HEAVY DUTY ALKALINE BATHROOM CLEANER AND DISINFECTANT

If inhaled : Get medical attention if symptoms occur.

See toxicological information (Section 11)

### SECTION 5. FIRE-FIGHTING MEASURES

#### Product AS SOLD

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Not flammable or combustible.
- Hazardous combustion products : Decomposition products may include the following materials:  
Carbon oxides  
nitrogen oxides (NOx)  
Sulfur oxides  
Oxides of phosphorus
- Special protective equipment for fire-fighters : Use personal protective equipment.
- Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Product AS SOLD

- Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not allow contact with soil, surface or ground water.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

#### Product AT USE DILUTION

- Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not allow contact with soil, surface or ground water.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

# SAFETY DATA SHEET

## 66 HEAVY DUTY ALKALINE BATHROOM CLEANER AND DISINFECTANT

local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

### SECTION 7. HANDLING AND STORAGE

#### Product AS SOLD

Advice on safe handling : Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.

Storage temperature : 0 °C to 50 °C

#### Product AT USE DILUTION

Advice on safe handling : Wash hands thoroughly after handling

Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Product AS SOLD

#### Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
ethanol	64-17-5	TWA	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m <sup>3</sup>	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m <sup>3</sup>	OSHA Z1

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

#### Personal protective equipment

Eye protection : Safety goggles  
Face-shield

Hand protection : No special protective equipment required.

Skin protection : No special protective equipment required.

Respiratory protection : No personal respiratory protective equipment normally required.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

#### Product AT USE DILUTION

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants

#### Personal protective equipment

# SAFETY DATA SHEET

## 66 HEAVY DUTY ALKALINE BATHROOM CLEANER AND DISINFECTANT

Eye protection	: No special protective equipment required.
Hand protection	: No special protective equipment required.
Skin protection	: No special protective equipment required.
Respiratory protection	: No personal respiratory protective equipment normally required.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	Product AS SOLD	Product AT USE DILUTION
Appearance	: liquid	liquid
Color	: red	light red
Odor	: Floral	Floral
pH	: 10.5, 100 %	8.5 - 11.0
Flash point	: not applicable	
Odor Threshold	: no data available	
Melting point/freezing point	: no data available	
Initial boiling point and boiling range	: no data available	
Evaporation rate	: no data available	
Flammability (solid, gas)	: no data available	
Upper explosion limit	: no data available	
Lower explosion limit	: no data available	
Vapor pressure	: no data available	
Relative vapor density	: no data available	
Relative density	: 1.102	
Water solubility	: no data available	
Solubility in other solvents	: no data available	
Partition coefficient: n-octanol/water	: no data available	
Autoignition temperature	: no data available	
Thermal decomposition	: no data available	
Viscosity, kinematic	: no data available	
Explosive properties	: no data available	
Oxidizing properties	: no data available	
Molecular weight	: no data available	
VOC	: no data available	

### SECTION 10. STABILITY AND REACTIVITY

<b>Product AS SOLD</b>	
Chemical stability	: Stable under normal conditions.
Possibility of hazardous	: No dangerous reaction known under conditions of normal use.



# SAFETY DATA SHEET

## 66 HEAVY DUTY ALKALINE BATHROOM CLEANER AND DISINFECTANT

reactions

- Conditions to avoid : None known.
- Incompatible materials : None known.
- Hazardous decomposition products : Decomposition products may include the following materials:  
Carbon oxides  
nitrogen oxides (NOx)  
Sulfur oxides  
Oxides of phosphorus

### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

#### Potential Health Effects

##### Product AS SOLD

- Eyes : Causes serious eye damage.
- Skin : Health injuries are not known or expected under normal use.
- Ingestion : Health injuries are not known or expected under normal use.
- Inhalation : Harmful if inhaled.
- Chronic Exposure : Health injuries are not known or expected under normal use.

##### Product AT USE DILUTION

- Eyes : Causes eye irritation.
- Skin : Health injuries are not known or expected under normal use.
- Ingestion : Health injuries are not known or expected under normal use.
- Inhalation : Health injuries are not known or expected under normal use.
- Chronic Exposure : Health injuries are not known or expected under normal use.

#### Experience with human exposure

##### Product AS SOLD

- Eye contact : Redness, Pain, Corrosion
- Skin contact : No symptoms known or expected.
- Ingestion : No symptoms known or expected.
- Inhalation : No information available.

##### Product AT USE DILUTION

- Eye contact : Redness, Irritation
- Skin contact : No symptoms known or expected.
- Ingestion : No symptoms known or expected.

# SAFETY DATA SHEET

## 66 HEAVY DUTY ALKALINE BATHROOM CLEANER AND DISINFECTANT

Inhalation : No symptoms known or expected.

### Toxicity

#### Product AS SOLD

Acute oral toxicity : Acute toxicity estimate > 5,000 mg/kg

Acute inhalation toxicity : 4 h LC50 rat: 2.5 mg/l

Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg

Skin corrosion/irritation : No skin irritation

Respiratory or skin sensitization : no data available

#### Carcinogenicity

IARC : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA : No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP : No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive effects : no data available

Germ cell mutagenicity : no data available

Teratogenicity : no data available

STOT-single exposure : no data available

STOT-repeated exposure : no data available

Aspiration toxicity : no data available

## SECTION 12. ECOLOGICAL INFORMATION

#### Product AS SOLD

##### Ecotoxicity

Environmental Effects : This product has no known ecotoxicological effects.

##### Product

Toxicity to fish : no data available

Toxicity to daphnia and other aquatic invertebrates : no data available

Toxicity to algae : no data available

##### Ingredients

Toxicity to fish : ethylenediamine tetraacetate  
96 h LC50 Fish: 121 mg/l

poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-  
96 h LC50 Fish: 3.2 mg/l

Didecyl Dimethyl Ammonium Chloride  
96 h LC50 Fish: 1 mg/l

# SAFETY DATA SHEET

## 66 HEAVY DUTY ALKALINE BATHROOM CLEANER AND DISINFECTANT

### Ingredients

Toxicity to daphnia and other aquatic invertebrates : n-Alkyl (50% C14, 40% C12, 10% C16) Dimethyl Benzyl Ammonium Chloride  
48 h EC50: 0.0059 mg/l

### Persistence and degradability

no data available

### Bioaccumulative potential

no data available

### Mobility in soil

no data available

### Other adverse effects

no data available

## SECTION 13. DISPOSAL CONSIDERATIONS

### Product AS SOLD

Disposal methods : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

### Product AT USE DILUTION

Disposal methods : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

## SECTION 14. TRANSPORT INFORMATION

### Product AS SOLD

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

### Land transport (DOT)

Not dangerous goods

### Sea transport (IMDG/IMO)

Not dangerous goods

### Product AT USE DILUTION

# SAFETY DATA SHEET

## 66 HEAVY DUTY ALKALINE BATHROOM CLEANER AND DISINFECTANT

Not intended for transport

### SECTION 15. REGULATORY INFORMATION

#### Product AS SOLD

EPA Registration number : 1677-202

#### EPCRA - Emergency Planning and Community Right-to-Know

##### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

##### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Acute Health Hazard

**SARA 302** : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

#### The ingredients of this product are reported in the following inventories:

**1907/2006 (EU)** :  
not determined

**Switzerland. New notified substances and declared preparations** :  
The mixture contains substances listed on the Swiss Inventory

**United States TSCA Inventory** :  
On TSCA Inventory

**Canadian Domestic Substances List (DSL)** :  
All components of this product are on the Canadian DSL.

**Australia Inventory of Chemical Substances (AICS)** :  
not determined

**New Zealand. Inventory of Chemical Substances** :  
not determined

**Japan. ENCS - Existing and New Chemical Substances Inventory** :  
not determined

**Japan. ISHL - Inventory of Chemical Substances (METI)** :  
not determined

**Korea. Korean Existing Chemicals Inventory (KECI)** :  
not determined

**Philippines Inventory of Chemicals and Chemical Substances (PICCS)** :

# SAFETY DATA SHEET

## 66 HEAVY DUTY ALKALINE BATHROOM CLEANER AND DISINFECTANT

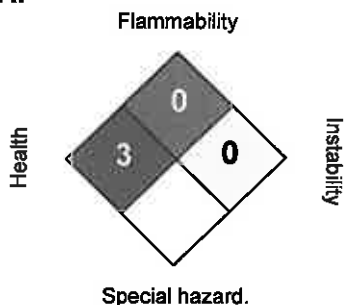
not determined

China. Inventory of Existing Chemical Substances in China (IECSC) :  
not determined

### SECTION 16. OTHER INFORMATION

#### Product AS SOLD

##### NFPA:



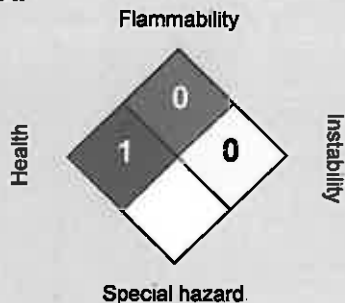
##### HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

#### Product AT USE DILUTION

##### NFPA:



##### HMIS III:

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

Issuing date : 06/24/2014  
Version : 1.0  
Prepared by : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : HIGH PERFORMANCE NEUTRAL FLOOR CLEANER

Other means of identification : not applicable

Recommended use : Floor Cleaner

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 0.4 % - 1.6 %

Company : Ecolab Inc.  
370 N. Wabasha Street  
St. Paul, Minnesota USA 55102  
1-800-352-5326

Emergency telephone : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date : 07/07/2014

**SECTION 2. HAZARDS IDENTIFICATION**
**GHS Classification**
**Product AS SOLD**

Acute toxicity (Inhalation) : Category 4

Eye irritation : Category 2B

**Product AT USE DILUTION**

Not a hazardous substance or mixture.

**GHS Label element**
**Product AS SOLD**

Hazard pictograms :



Signal Word : Warning

Hazard Statements : Causes eye irritation.  
Harmful if inhaled.

Precautionary Statements : **Prevention:**  
Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area.  
**Response:**  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/ physician if you feel unwell. If eye irritation persists: Get medical advice/ attention.

**Product AT USE DILUTION**

Precautionary Statements : **Prevention:**

# SAFETY DATA SHEET

## HIGH PERFORMANCE NEUTRAL FLOOR CLEANER

Wash hands thoroughly after handling.

**Response:**

Get medical advice/ attention if you feel unwell.

**Storage:**

Store in accordance with local regulations.

**Other hazards** : None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Product AS SOLD**

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
oxirane, methyl-, polymer with oxirane	9003-11-6	5 - 10
Sodium Xylenesulfonate	1300-72-7	1 - 5
poly(oxy-1,2-ethanediyl), a-(2-propylheptyl)-w-hydroxy-	160875-66-1	1 - 5
Fragrance	Proprietary Ingredient	0 - 1

**Product AT USE DILUTION**

Chemical Name	CAS-No.	Concentration (%)
Fragrance	Proprietary Ingredient	0 - 1

### SECTION 4. FIRST AID MEASURES

**Product AS SOLD**

- In case of eye contact : Rinse with plenty of water.
- In case of skin contact : Rinse with plenty of water.
- If swallowed : Rinse mouth. Get medical attention if symptoms occur.
- If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention.
- Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Notes to physician : Treat symptomatically.

**Product AT USE DILUTION**

- In case of eye contact : Rinse with plenty of water.
- In case of skin contact : Rinse with plenty of water.
- If swallowed : Rinse mouth. Get medical attention if symptoms occur.
- If inhaled : Get medical attention if symptoms occur.

See toxicological information (Section 11)

### SECTION 5. FIRE-FIGHTING MEASURES

**Product AS SOLD**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing : None known.

# SAFETY DATA SHEET

## HIGH PERFORMANCE NEUTRAL FLOOR CLEANER

media

- Specific hazards during fire fighting : Not flammable or combustible.
- Hazardous combustion products : Decomposition products may include the following materials:  
Carbon oxides  
nitrogen oxides (NOx)  
Sulfur oxides  
Oxides of phosphorus
- Special protective equipment for fire-fighters : Use personal protective equipment.
- Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Product AS SOLD

- Personal precautions, protective equipment and emergency procedures : Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not allow contact with soil, surface or ground water.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

#### Product AT USE DILUTION

- Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : No special environmental precautions required.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

### SECTION 7. HANDLING AND STORAGE

#### Product AS SOLD

- Advice on safe handling : Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling.
- Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.
- Storage temperature : 0 °C to 50 °C



# SAFETY DATA SHEET

## HIGH PERFORMANCE NEUTRAL FLOOR CLEANER

### Product AT USE DILUTION

Advice on safe handling : Wash hands after handling. For personal protection see section 8.

Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Product AS SOLD

#### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

#### Personal protective equipment

Eye protection : No special protective equipment required.

Hand protection : No special protective equipment required.

Skin protection : No special protective equipment required.

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

### Product AT USE DILUTION

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Personal protective equipment

Eye protection : No special protective equipment required.

Hand protection : No special protective equipment required.

Skin protection : No special protective equipment required.

Respiratory protection : No personal respiratory protective equipment normally required.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	Product AS SOLD	Product AT USE DILUTION
Appearance	: liquid	liquid
Color	: clear, orange	orange
Odor	: sweet	sweet
pH	: 6.6 - 8.6, 100 %	7.0 - 8.5
Flash point	: not applicable	
Odor Threshold	: no data available	
Melting point/freezing point	: no data available	
Initial boiling point and boiling range	: > 100 °C	

# SAFETY DATA SHEET

## HIGH PERFORMANCE NEUTRAL FLOOR CLEANER

Evaporation rate	: no data available
Flammability (solid, gas)	: no data available
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapor pressure	: no data available
Relative vapor density	: no data available
Relative density	: 1.012 - 1.032
Water solubility	: soluble
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Autoignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, kinematic	: 12.613 mm <sup>2</sup> /s (40 °C)
Explosive properties	: no data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Molecular weight	: no data available
VOC	: no data available

### SECTION 10. STABILITY AND REACTIVITY

#### Product AS SOLD

Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: None known.
Incompatible materials	: None known.
Hazardous decomposition products	: Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NO <sub>x</sub> ) Sulfur oxides Oxides of phosphorus

### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

#### Potential Health Effects

##### Product AS SOLD

Eyes	: Causes eye irritation.
Skin	: Health injuries are not known or expected under normal use.
Ingestion	: Health injuries are not known or expected under normal use.

# SAFETY DATA SHEET

## HIGH PERFORMANCE NEUTRAL FLOOR CLEANER

Inhalation : Harmful if inhaled.  
Chronic Exposure : Health injuries are not known or expected under normal use.

### Product AT USE DILUTION

Eyes : Health injuries are not known or expected under normal use.  
Skin : Health injuries are not known or expected under normal use.  
Ingestion : Health injuries are not known or expected under normal use.  
Inhalation : Health injuries are not known or expected under normal use.  
Chronic Exposure : Health injuries are not known or expected under normal use.

### Experience with human exposure

#### Product AS SOLD

Eye contact : Redness, Irritation  
Skin contact : No symptoms known or expected.  
Ingestion : No symptoms known or expected.  
Inhalation : No information available.

### Product AT USE DILUTION

Eye contact : No symptoms known or expected.  
Skin contact : No symptoms known or expected.  
Ingestion : No symptoms known or expected.  
Inhalation : No symptoms known or expected.

### Toxicity

#### Product AS SOLD

Acute oral toxicity : Acute toxicity estimate > 5,000 mg/kg  
Acute inhalation toxicity : 4 h Acute toxicity estimate : 1.8 mg/l  
Acute dermal toxicity : Acute toxicity estimate > 5,000 mg/kg  
Skin corrosion/irritation : no data available  
Serious eye damage/eye irritation : Mild eye irritation  
Respiratory or skin sensitization : no data available  
Carcinogenicity : no data available  
Reproductive effects : no data available  
Germ cell mutagenicity : no data available  
Teratogenicity : no data available  
STOT-single exposure : no data available  
STOT-repeated exposure : no data available

# SAFETY DATA SHEET

## HIGH PERFORMANCE NEUTRAL FLOOR CLEANER

Aspiration toxicity : no data available

### SECTION 12. ECOLOGICAL INFORMATION

#### Product AS SOLD

##### Ecotoxicity

Environmental Effects : This product has no known ecotoxicological effects.

##### Product

Toxicity to fish : no data available

Toxicity to daphnia and other aquatic invertebrates : no data available

Toxicity to algae : no data available

##### Ingredients

Toxicity to fish : oxirane, methyl-, polymer with oxirane  
96 h LC50 Fish: > 100 mg/l

##### Ingredients

Toxicity to daphnia and other aquatic invertebrates : poly(oxy-1,2-ethanediyl), a-(2-propylheptyl)-w-hydroxy-  
48 h EC50 Daphnia : 10 mg/l

##### Ingredients

Toxicity to algae : Sodium Xylenesulfonate  
96 h EC50: 230 mg/l

##### Persistence and degradability

no data available

##### Bioaccumulative potential

no data available

##### Mobility in soil

no data available

##### Other adverse effects

no data available

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Product AS SOLD

Disposal methods : Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

#### Product AT USE DILUTION

Disposal methods : Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

# SAFETY DATA SHEET

## HIGH PERFORMANCE NEUTRAL FLOOR CLEANER

**Disposal considerations** : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

### SECTION 14. TRANSPORT INFORMATION

#### Product AS SOLD

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

#### Land transport (DOT)

Not dangerous goods

#### Sea transport (IMDG/IMO)

Not dangerous goods

#### Product AT USE DILUTION

Not intended for transport

### SECTION 15. REGULATORY INFORMATION

#### Product AS SOLD

#### EPCRA - Emergency Planning and Community Right-to-Know

#### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Acute Health Hazard

**SARA 302** : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

**The ingredients of this product are reported in the following inventories:**

**1907/2006 (EU)** :  
not determined

**Switzerland. New notified substances and declared preparations** :  
not determined

**United States TSCA Inventory** :  
On TSCA Inventory

**SAFETY DATA SHEET**

**HIGH PERFORMANCE NEUTRAL FLOOR CLEANER**

**Canadian Domestic Substances List (DSL) :**

This product contains one or several components listed in the Canadian NDSL.

**Australia Inventory of Chemical Substances (AICS) :**

not determined

**New Zealand. Inventory of Chemical Substances :**

not determined

**Japan. ENCS - Existing and New Chemical Substances Inventory :**

not determined

**Japan. ISHL - Inventory of Chemical Substances (METI) :**

not determined

**Korea. Korean Existing Chemicals Inventory (KECI) :**

On the inventory, or in compliance with the inventory

**Philippines Inventory of Chemicals and Chemical Substances (PICCS) :**

not determined

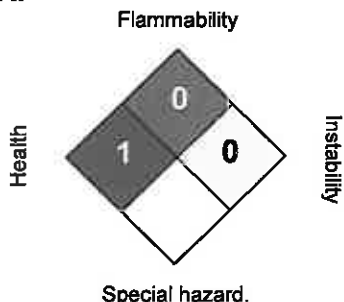
**China. Inventory of Existing Chemical Substances in China (IECSC) :**

not determined

**SECTION 16. OTHER INFORMATION**

**Product AS SOLD**

**NFPA:**



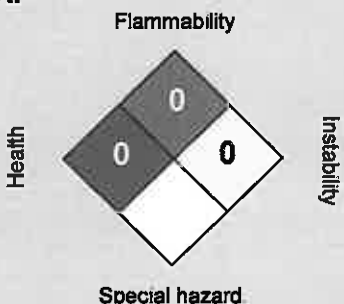
**HMIS III:**

HEALTH	<b>1</b>
FLAMMABILITY	<b>0</b>
PHYSICAL HAZARD	<b>0</b>

0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

**Product AT USE DILUTION**

**NFPA:**



**HMIS III:**

HEALTH	<b>0</b>
FLAMMABILITY	<b>0</b>
PHYSICAL HAZARD	<b>0</b>

0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

Issuing date : 07/07/2014

# SAFETY DATA SHEET

## HIGH PERFORMANCE NEUTRAL FLOOR CLEANER

Version : 1.1  
Prepared by : Regulatory Affairs

**REVISED INFORMATION:** Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

## 20 Neutral Disinfectant Cleaner

### Section 1. Chemical product and company identification

**Product name** : 20 Neutral Disinfectant Cleaner  
**Recommended use and restrictions** : disinfectant  
 Use only for the purpose on the product label.

**Product dilution information** : Up to 2 oz/gal in water

**Supplier's information** : Ecolab Inc. Institutional Division  
 370 N. Wabasha Street  
 St. Paul, MN 55102  
 1-800-352-5326

**Code** : 901158

**Date of issue** : 18 Sep 2013

**EPA Registration No.** : 47371-129-1677

EMERGENCY HEALTH INFORMATION: 1-800-328-0026  
 Outside United States and Canada CALL 1-651-222-5352 (in USA)

### Section 2. Hazards identification

#### Product AS SOLD

**GHS Classification** : ACUTE TOXICITY: ORAL - Category 4  
 ACUTE TOXICITY: INHALATION - Category 4  
 SKIN CORROSION/IRRITATION - Category 1B  
 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

#### GHS label elements

**Signal word** : Danger

**Symbol** :

**Hazard statements** : Harmful if swallowed or if inhaled.  
 Causes severe skin burns and eye damage.

#### Precautionary statements

**Prevention** : Wear protective gloves. Wear eye or face protection. Wear protective clothing. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling.

**Response** : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated

#### Product AT USE DILUTION

ACUTE TOXICITY: SKIN - Category 4  
 ACUTE TOXICITY: INHALATION - Category 4  
 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B

#### Warning



Harmful in contact with skin or if inhaled.  
 Causes eye irritation.

Wear protective gloves. Wear protective clothing. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact



## Section 2. Hazards identification

	clothing before reuse. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.	lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
<b>Storage</b>	: No other specific measures identified.	No other specific measures identified.
<b>Disposal</b>	: See section 13 for waste disposal information.	See section 13 for waste disposal information.
<b>Other hazards</b>	: None known.	None known.

## Section 3. Composition/information on ingredients

Substance/mixture : Mixture

### Product AS SOLD

Hazardous ingredients	Concentration Range (%)	CAS number
Didecyl dimethyl ammonium chloride	10.14	7173-51-5
n-Alkyl (50% C14, 40% C12, 10% C16)	6.76	68424-85-1
Dimethyl Benzyl Ammonium Chloride		
Octyl dimethyl amine oxide	1 - 5	2605-78-9
TETRASODIUM EDTA	1 - 5	64-02-8
ALCOHOL	1 - 5	64-17-5

### Product AT USE DILUTION

Hazardous ingredients	Concentration Range (%)	CAS number
Didecyl dimethyl Ammonium Chloride	10.14	7173-51-5
n-Alkyl (50% C14, 40% C12, 10% C16)	6.76	68424-85-1
Dimethyl Benzyl Ammonium Chloride		

## Section 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
<b>Eye contact</b>	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.
<b>Skin contact</b>	: Take off immediately all contaminated clothing. Rinse skin with water or shower. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.	Wash with plenty of soap and water. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
<b>Inhalation</b>	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if you feel unwell.
<b>Ingestion</b>	: Get medical attention immediately. Rinse mouth. Do not induce vomiting.	Get medical attention if symptoms occur.
<b>Protection of first-aiders</b>	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If ventilation is inadequate, use respirator that will protect against dust/mist. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	
<b>Notes to physician</b>	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.	
<b>See toxicological information (section 11)</b>		

## Section 5. Fire-fighting measures

### Product AS SOLD

- Suitable fire extinguishing media** : Use water spray, fog or foam.
- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
halogenated compounds  
metal oxide/oxides
- Specific fire-fighting methods** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Product AS SOLD

- Personal precautions** : Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Do not touch or walk through spilled material.
- Environmental precautions** : Avoid contact of spilled material and runoff with soil and surface waterways.
- Methods for cleaning up** : Follow company's spill procedures. Keep people away from spill. Put on appropriate personal protective equipment (see section 8). Absorb/neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Use a water rinse for final clean-up.

### Product AT USE DILUTION

Use personal protective equipment as required.

Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.

Use a water rinse for final clean-up.

## Section 7. Handling and storage

### Product AS SOLD

- Handling** : Do not ingest. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Wash thoroughly after handling.
- Storage** : Keep out of reach of children. Keep container tightly closed.
- Store between the following temperatures: 0 and 50°C

### Product AT USE DILUTION

Do not ingest. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Wash thoroughly after handling.

Keep out of reach of children. Keep container tightly closed.

## Section 8. Exposure controls/personal protection

### Control parameters

Ingredient name	Exposure limits
ALCOHOL	<b>ACGIH TLV (United States, 3/2012).</b> STEL: 1000 ppm 15 minutes. <b>OSHA PEL (United States, 6/2010).</b> TWA: 1900 mg/m <sup>3</sup> 8 hours. TWA: 1000 ppm 8 hours. <b>NIOSH REL (United States, 6/2009).</b> TWA: 1000 ppm 10 hours. TWA: 1900 mg/m <sup>3</sup> 10 hours.

	Product AS SOLD	Product AT USE DILUTION
<b>Appropriate engineering controls</b>	: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.	Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
<b>Personal protection</b>		
<b>Eye protection</b>	: Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.	No protective equipment is needed under normal use conditions.
<b>Hand protection</b>	: Use chemical-resistant, impervious gloves.	No protective equipment is needed under normal use conditions.
<b>Skin protection</b>	: Use suitable protective equipment.	No protective equipment is needed under normal use conditions.
<b>Respiratory protection</b>	: Wear appropriate respirator when ventilation is inadequate and occupational exposure limits are exceeded.	Wear appropriate respirator when ventilation is inadequate and occupational exposure limits are exceeded.
<b>Hygiene measures</b>	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.	

## Section 9. Physical and chemical properties

	Product AS SOLD	Product AT USE DILUTION
<b>Physical state</b>	: Liquid.	Liquid.
<b>Color</b>	: Purple [Dark]	Purple [Light]
<b>Odor</b>	: Floral	Floral [Slight]
<b>pH</b>	: 7.2 to 8.2 (100%)	6 to 9
<b>Flash point</b>	: > 100°C Product does not support combustion.	> 100°C
<b>Explosion limits</b>	: Not available.	
<b>Flammability (solid, gas)</b>	: Not available.	
<b>Melting point</b>	: Not available.	
<b>Boiling point</b>	: >100°C (>212°F)	
<b>Evaporation rate (butyl acetate = 1)</b>	: Not available.	

## Section 9. Physical and chemical properties

<b>Vapor pressure</b>	: Not available.
<b>Vapor density</b>	: Not available.
<b>Relative density</b>	: 0.99 to 1.01 (Water = 1)
<b>Solubility</b>	: Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: Not available.
<b>Auto-ignition temperature</b>	: Not available.
<b>Decomposition temperature</b>	: Not available.
<b>Odor threshold</b>	: Not available.
<b>Viscosity</b>	: Not available.

## Section 10. Stability and reactivity

### Product AS SOLD

<b>Stability</b>	: The product is stable.
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: No specific data.
<b>Materials to avoid</b>	: Not available.
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

**Route of exposure** : Skin contact, Eye contact, Inhalation, Ingestion

### Product AS SOLD

#### Symptoms

<b>Eye contact</b>	: Adverse symptoms may include the following: pain watering redness
<b>Skin contact</b>	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
<b>Inhalation</b>	: Adverse symptoms may include the following: coughing Respiratory tract irritation
<b>Ingestion</b>	: Adverse symptoms may include the following: stomach pains
<b>Acute toxicity</b>	
<b>Eye contact</b>	: Causes serious eye damage.
<b>Skin contact</b>	: Causes severe burns.
<b>Inhalation</b>	: Harmful if inhaled. May cause respiratory irritation.
<b>Ingestion</b>	: Harmful if swallowed. May cause burns to mouth, throat and stomach.

#### Toxicity data

**Product/ingredient name**

### Product AT USE DILUTION

Adverse symptoms may include the following:  
irritation  
watering  
redness

No specific data.

No specific data.

No specific data.

Causes eye irritation.  
Harmful in contact with skin.  
Harmful if inhaled.

No known significant effects or critical hazards.

## Section 11. Toxicological information

didecyldimethylammonium chloride	LC50 Inhalation Dusts and mists	Rat	0.07 mg/l
	LD50 Dermal	Rabbit	2930 mg/kg
	LD50 Oral	Rat	1150 mg/kg
quaternary ammonium compounds, benzyl- c12-c16-alkyldimethyl, chlorides	LD50 Dermal	Rabbit	3340 mg/kg
	LD50 Oral	Rat	344 mg/kg
acetic acid, (ethylenedinitrilo)tetra-, tetrasodium salt	LD50 Oral	Rat	1700 mg/kg
ethanol	LC50 Inhalation Vapor	Rat	117 mg/l
	LD50 Dermal	Rabbit	15800 mg/kg
	LD50 Oral	Rat	10470 mg/kg
1-octanamine, n,n-dimethyl-, n-oxide	LD50 Oral	Rat	>5000 mg/kg

### Chronic toxicity

<b>Carcinogenicity</b>	: No known significant effects or critical hazards.
<b>Mutagenicity</b>	: No known significant effects or critical hazards.
<b>Teratogenicity</b>	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
<b>Fertility effects</b>	: No known significant effects or critical hazards.

## Section 12. Ecological information

### Product AS SOLD

**Ecotoxicity** : No known significant effects or critical hazards.

### Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
Not available.			

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : **Product AS SOLD**  
: Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Product AT USE DILUTION**  
Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations.

## Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

### DOT

<b>DOT Classification</b>	UN1903
<b>DOT Proper shipping name</b>	Disinfectants, liquid, corrosive n.o.s. (Alkyldimethyl benzyl ammonium chlorides)
<b>Class</b>	8
<b>Packing group</b>	III

### IMO/IMDG

**IMO/IMDG Classification** UN1903

## Section 14. Transport information

**IMO/IMDG Proper shipping name** DISINFECTANT, LIQUID, CORROSIVE, N.O.S.(Alkyl dimethyl benzyl ammonium chlorides)  
**Class** 8  
**Packing group** III

For transport in bulk, see shipping documents for specific transportation information.

**Product AT USE DILUTION**  
 Not intended for transport.

## Section 15. Regulatory information

**Product AS SOLD**

U.S. Federal regulations

**TSCA 8(b) inventory** : All components are listed or exempted.  
**EPA Registration No.** : 47371-129-1677  
**SARA 302/304/311/312 extremely hazardous substances:** No listed substance  
**SARA 302/304 emergency planning and notification:** No listed substance

<u>SARA 313</u>	<u>Product name</u>	<u>CAS number</u>	<u>Concentration</u>
Form R - Reporting requirements	: No listed substance		

California Prop. 65 : No listed substance

## Section 16. Other information

**Product AS SOLD**

**Hazardous Material Information System (U.S.A.)** :

Health	3
Flammability	0
Physical hazards	0

**National Fire Protection Association (U.S.A.)** :



**Product AT USE DILUTION**

Health	1
Flammability	0
Physical hazards	0



**Date of issue** : 18 Sep 2013  
**Prepared by** : Regulatory Affairs  
 1-800-352-5326

Notice to reader

## **Section 16. Other information**

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : OASIS PRO 16 ORANGE FORCE

Other means of identification : Not applicable

Recommended use : All Purpose Cleaner

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 1.5625 % - 6.25 %

Company : Ecolab Inc.  
370 N. Wabasha Street  
St. Paul, Minnesota USA 55102  
1-800-352-5326

Emergency telephone : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date : 10/02/2014

**SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification**

**Product AS SOLD**

Eye irritation : Category 2A  
Skin sensitization : Category 1

**Product AT USE DILUTION**

Not a hazardous substance or mixture

**GHS Label element**

**Product AS SOLD**

Hazard pictograms :



Signal Word : Warning

Hazard Statements : May cause an allergic skin reaction.  
Causes serious eye irritation.

Precautionary Statements : **Prevention:**  
Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear eye protection/ face protection. Wear protective gloves. Do not mix with bleach or other chlorinated products – will cause chlorine gas.  
**Response:**  
IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Wash contaminated clothing before reuse.  
**Disposal:**



# SAFETY DATA SHEET

## OASIS PRO 16 ORANGE FORCE

Dispose of contents/ container to an approved waste disposal plant.

### Product AT USE DILUTION

#### Precautionary Statements

**Prevention:**

Wash hands thoroughly after handling

**Response:**

Get medical advice/ attention if you feel unwell

**Storage:**

Store in accordance with local regulations

**Other hazards**

: None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Product AS SOLD

Pure substance/mixture

: Mixture

**Chemical Name****CAS-No.****Concentration (%)**

sodium dodecylbenzene sulfonate

25155-30-0

5 - 10

Linear Alkylbenzenesulphonates

27323-41-7

5 - 10

Poly(oxy-1,2-ethanediyl), .alpha.-(phenylmethyl)-  
.omega.-hydroxy-

26403-74-7

5 - 10

Ethoxylated alkyl sulfate

68585-34-2

1 - 5

d-Limonene

5989-27-5

1 - 5

ethanol

64-17-5

1 - 5

### Product AT USE DILUTION

No hazardous ingredients

## SECTION 4. FIRST AID MEASURES

### Product AS SOLD

In case of eye contact

: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

In case of skin contact

: Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

If swallowed

: Rinse mouth. Get medical attention if symptoms occur.

If inhaled

: Get medical attention if symptoms occur.

Protection of first-aiders

: If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Notes to physician

: Treat symptomatically.

### Product AT USE DILUTION

In case of eye contact

: Rinse with plenty of water.

In case of skin contact

: Rinse with plenty of water.

If swallowed

: Rinse mouth. Get medical attention if symptoms occur.

If inhaled

: Get medical attention if symptoms occur.

# SAFETY DATA SHEET

## OASIS PRO 16 ORANGE FORCE

See toxicological information (Section 11)

### SECTION 5. FIRE-FIGHTING MEASURES

#### Product AS SOLD

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Not flammable or combustible.
- Hazardous combustion products : Decomposition products may include the following materials:  
Carbon oxides  
Nitrogen oxides (NOx)  
Sulfur oxides  
Oxides of phosphorus
- Special protective equipment for fire-fighters : Use personal protective equipment.
- Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Product AS SOLD

- Personal precautions, protective equipment and emergency procedures : Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not allow contact with soil, surface or ground water.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

#### Product AT USE DILUTION

- Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : No special environmental precautions required.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

### SECTION 7. HANDLING AND STORAGE

# SAFETY DATA SHEET

## OASIS PRO 16 ORANGE FORCE

### Product AS SOLD

- Advice on safe handling : Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling. Do not mix with bleach or other chlorinated products – will cause chlorine gas.
- Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.
- Storage temperature : 0 °C to 50 °C

### Product AT USE DILUTION

- Advice on safe handling : Wash hands after handling. For personal protection see section 8.
- Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Product AS SOLD

#### Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
d-Limonene	5989-27-5	TWA	20 ppm	ACGIH
ethanol	64-17-5	TWA	1,000 ppm 1,900 mg/m <sup>3</sup>	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m <sup>3</sup>	OSHA Z1
		STEL	1,000 ppm	ACGIH
sulphuric acid	7664-93-9	TWA (Thoracic fraction)	0.2 mg/m <sup>3</sup>	ACGIH
		TWA	1 mg/m <sup>3</sup>	NIOSH REL
		TWA	1 mg/m <sup>3</sup>	OSHA Z1

- Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

#### Personal protective equipment

- Eye protection : Safety glasses with side-shields
- Hand protection : Wear the following personal protective equipment:  
Standard glove type.  
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- Skin protection : No special protective equipment required.
- Respiratory protection : No personal respiratory protective equipment normally required.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling.

### Product AT USE DILUTION

- Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants

# SAFETY DATA SHEET

## OASIS PRO 16 ORANGE FORCE

### Personal protective equipment

Eye protection	: No special protective equipment required.
Hand protection	: No special protective equipment required.
Skin protection	: No special protective equipment required.
Respiratory protection	: No personal respiratory protective equipment normally required.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	Product AS SOLD	Product AT USE DILUTION
Appearance	: liquid	liquid
Color	: dark orange	light orange
Odor	: citrus	citrus
pH	: 8.25, 100 %	7.0 - 8.0
Flash point	: Not applicable	
Odor Threshold	: No data available	
Melting point/freezing point	: No data available	
Initial boiling point and boiling range	: No data available	
Evaporation rate	: No data available	
Flammability (solid, gas)	: No data available	
Upper explosion limit	: No data available	
Lower explosion limit	: No data available	
Vapor pressure	: No data available	
Relative vapor density	: No data available	
Relative density	: 1.0 - 1.102	
Water solubility	: No data available	
Solubility in other solvents	: No data available	
Partition coefficient: n-octanol/water	: No data available	
Autoignition temperature	: No data available	
Thermal decomposition	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
Molecular weight	: No data available	
VOC	: No data available	

### SECTION 10. STABILITY AND REACTIVITY

#### Product AS SOLD

Chemical stability : Stable under normal conditions.

# SAFETY DATA SHEET

## OASIS PRO 16 ORANGE FORCE

Possibility of hazardous reactions	: Do not mix with bleach or other chlorinated products – will cause chlorine gas.
Conditions to avoid	: None known.
Incompatible materials	: None known.
Hazardous decomposition products	: Decomposition products may include the following materials: Carbon oxides Nitrogen oxides (NOx) Sulfur oxides Oxides of phosphorus

### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

#### Potential Health Effects

##### Product AS SOLD

Eyes	: Causes serious eye irritation.
Skin	: May cause allergic skin reaction.
Ingestion	: Health injuries are not known or expected under normal use.
Inhalation	: Health injuries are not known or expected under normal use.
Chronic Exposure	: Health injuries are not known or expected under normal use.

##### Product AT USE DILUTION

Eyes	: Health injuries are not known or expected under normal use.
Skin	: Health injuries are not known or expected under normal use.
Ingestion	: Health injuries are not known or expected under normal use.
Inhalation	: Health injuries are not known or expected under normal use.
Chronic Exposure	: Health injuries are not known or expected under normal use.

#### Experience with human exposure

##### Product AS SOLD

Eye contact	: Redness, Pain, Irritation
Skin contact	: Redness, Irritation, Allergic reactions
Ingestion	: No symptoms known or expected.
Inhalation	: No symptoms known or expected.

##### Product AT USE DILUTION

Eye contact	: No symptoms known or expected.
Skin contact	: No symptoms known or expected.
Ingestion	: No symptoms known or expected.

# SAFETY DATA SHEET

## OASIS PRO 16 ORANGE FORCE

Inhalation : No symptoms known or expected.

### Toxicity

#### Product AS SOLD

Acute oral toxicity : Acute toxicity estimate > 5,000 mg/kg  
Acute inhalation toxicity : No data available  
Acute dermal toxicity : No data available  
Skin corrosion/irritation : No data available  
Serious eye damage/eye irritation : No data available  
Respiratory or skin sensitization : No data available  
Carcinogenicity : No data available  
Reproductive effects : No data available  
Germ cell mutagenicity : No data available  
Teratogenicity : No data available  
STOT-single exposure : No data available  
STOT-repeated exposure : No data available  
Aspiration toxicity : No data available

### Ingredients

Acute inhalation toxicity : ethanol  
4 h LC50 Rat: 117 mg/l

### Ingredients

Acute dermal toxicity : Ethoxylated alkyl sulfate  
LD50 Rat: > 2,000 mg/kg  
  
d-Limonene  
LD50 Rabbit: > 5,000 mg/kg  
  
ethanol  
LD50 Rabbit: 15,800 mg/kg

## SECTION 12. ECOLOGICAL INFORMATION

### Product AS SOLD

#### Ecotoxicity

Environmental Effects : Harmful to aquatic life with long lasting effects.

### Product

Toxicity to fish : No data available  
Toxicity to daphnia and other aquatic invertebrates : No data available  
Toxicity to algae : No data available

### Ingredients

Toxicity to fish : sodium dodecylbenzene sulfonate

# SAFETY DATA SHEET

## OASIS PRO 16 ORANGE FORCE

96 h LC50: 3.2 mg/l

Poly(oxy-1,2-ethanediyl), .alpha.-(phenylmethyl)-.omega.-hydroxy-  
96 h LC50: > 100 mg/l

Ethoxylated alkyl sulfate  
96 h LC50 Fish: 28 mg/l

ethanol  
96 h LC50 Fish: 11,000 mg/l

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

### Product AS SOLD

Disposal methods : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

### Product AT USE DILUTION

Disposal methods : Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

## SECTION 14. TRANSPORT INFORMATION

### Product AS SOLD

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

### Land transport (DOT)

Not dangerous goods

### Sea transport (IMDG/IMO)

# SAFETY DATA SHEET

## OASIS PRO 16 ORANGE FORCE

Not dangerous goods

### Product AT USE DILUTION

Not intended for transport.

## SECTION 15. REGULATORY INFORMATION

### Product AS SOLD

#### EPCRA - Emergency Planning and Community Right-to-Know

#### CERCLA Reportable Quantity

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
sodium dodecylbenzene sulfonate	25155-30-0	1000	10375

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Acute Health Hazard

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

#### The ingredients of this product are reported in the following inventories:

##### Switzerland. New notified substances and declared preparations :

The mixture contains substances listed on the Swiss Inventory

##### United States TSCA Inventory :

On TSCA Inventory

##### Canadian Domestic Substances List (DSL) :

This product contains one or several components listed in the Canadian NDSL.

##### Australia Inventory of Chemical Substances (AICS) :

not determined

##### New Zealand. Inventory of Chemical Substances :

not determined

##### Japan. ENCS - Existing and New Chemical Substances Inventory :

not determined

##### Japan. ISHL - Inventory of Chemical Substances (METI) :

not determined

##### Korea. Korean Existing Chemicals Inventory (KECI) :

not determined

##### Philippines Inventory of Chemicals and Chemical Substances (PICCS) :



# SAFETY DATA SHEET

## OASIS PRO 16 ORANGE FORCE

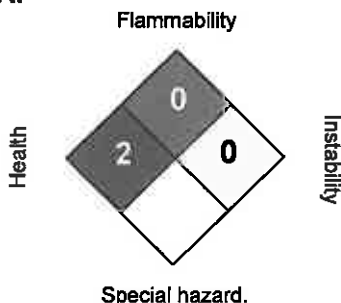
not determined

**China. Inventory of Existing Chemical Substances in China (IECSC) :**  
not determined

### SECTION 16. OTHER INFORMATION

#### Product AS SOLD

##### NFPA:



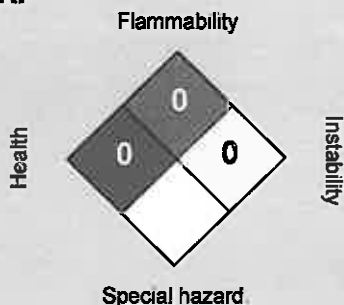
##### HMIS III:

HEALTH	2*
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

#### Product AT USE DILUTION

##### NFPA:



##### HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

Issuing date : 10/02/2014  
Version : 1.0  
Prepared by : Regulatory Affairs

**REVISED INFORMATION:** Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

# SAFETY DATA SHEET



## GLASS CLEANER

### Section 1. Chemical product and company identification

**Product name** : GLASS CLEANER  
**Recommended use and restrictions** : Glass Cleaner  
Use only for the purpose on the product label.

**Product dilution information** : Up to 8 oz/gal or 62.5 mL/L in water

**Supplier's information** : Ecolab Inc. Institutional Division  
370 N. Wabasha Street  
St. Paul, MN 55102  
1-800-352-5326

**Code** : 914266-03

**Date of issue** : 16 Dec 2013

EMERGENCY HEALTH INFORMATION: 1-800-328-0026  
Outside United States and Canada CALL 1-651-222-5352 (in USA)

### Section 2. Hazards identification

**Product AS SOLD**  
**GHS Classification** : SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B

#### GHS label elements

**Signal word** : Warning

**Hazard statements** : Causes eye irritation.

#### Precautionary statements

**Prevention** : Wash hands thoroughly after handling.  
**Response** : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

**Storage** : No other specific measures identified.

**Disposal** : See section 13 for waste disposal information.

**Other hazards** : None known.

#### **Product AT USE DILUTION**

Not classified.

No signal word.

No known significant effects or critical hazards.

Wash thoroughly after handling.

Get medical attention if symptoms appear.

No other specific measures identified.

See section 13 for waste disposal information.

None known.

### Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

#### **Product AS SOLD**

Hazardous ingredients	Concentration Range (%)	CAS number
d-glucopyranose, oligomeric, decyl octyl glycosides	5 - 20	68515-73-1
Fragrance.	<1	Mixture

### Section 3. Composition/information on ingredients

#### Product AT USE DILUTION

Hazardous ingredients	Concentration Range (%)	CAS number
Fragrance	<1	Mixture

### Section 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
<b>Eye contact</b>	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.	No known effect after eye contact. Rinse with water for a few minutes.
<b>Skin contact</b>	: No known effect after skin contact. Rinse with water for a few minutes.	No known effect after skin contact. Rinse with water for a few minutes.
<b>Inhalation</b>	: No special measures required. Treat symptomatically.	No special measures required. Treat symptomatically.
<b>Ingestion</b>	: Get medical attention if symptoms occur.	Get medical attention if symptoms occur.
<b>Protection of first-aiders</b>	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.	
<b>Notes to physician</b>	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	

See toxicological information (section 11)

### Section 5. Fire-fighting measures

#### Product AS SOLD

<b>Suitable fire extinguishing media</b>	: Use water spray, fog or foam.
<b>Specific hazards arising from the chemical</b>	: In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous thermal decomposition products</b>	: No specific data.
<b>Specific fire-fighting methods</b>	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Special protective equipment for fire-fighters</b>	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

	Product AS SOLD	Product AT USE DILUTION
<b>Personal precautions</b>	: Use personal protective equipment as required.	Use personal protective equipment as required.
<b>Environmental precautions</b>	: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.	Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
<b>Methods for cleaning up</b>	: Use a water rinse for final clean-up.	Use a water rinse for final clean-up.

## Section 7. Handling and storage

- Product AS SOLD**
- Handling** : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
- Storage** : Keep out of reach of children. Keep container tightly closed.
- Store between the following temperatures: 5 and 50°C

- Product AT USE DILUTION**
- Wash thoroughly after handling.
- Keep out of reach of children.

## Section 8. Exposure controls/personal protection

### Control parameters

Ingredient name	Exposure limits
None.	

- |   | Product AS SOLD  | Product AT USE DILUTION  |
|---|--|--|
| <b>Appropriate engineering controls</b> | : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.   | Good general ventilation should be sufficient to control worker exposure to airborne contaminants. |
| <b>Personal protection</b>              |  |  |
| <b>Eye protection</b>                   | : No protective equipment is needed under normal use conditions.   | No protective equipment is needed under normal use conditions.                                     |
| <b>Hand protection</b>                  | : No protective equipment is needed under normal use conditions.   | No protective equipment is needed under normal use conditions.                                     |
| <b>Skin protection</b>                  | : No protective equipment is needed under normal use conditions.   | No protective equipment is needed under normal use conditions.                                     |
| <b>Respiratory protection</b>           | : A respirator is not needed under normal and intended conditions of product use.  | A respirator is not needed under normal and intended conditions of product use.                    |
| <b>Hygiene measures</b>                 | : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. |  |

## Section 9. Physical and chemical properties

- Product AS SOLD**
- Physical state** : Liquid.
- Color** : Blue
- Odor** : Fragrance-like
- pH** : 10.9 (100 )
- Flash point** : > 100°C  
Product does not support combustion.
- Explosion limits** : Not available.
- Flammability (solid, gas)** : Not available.
- Melting point** : Not available.
- Boiling point** : 100°C (212°F)
- Evaporation rate (butyl acetate = 1)** : Not available.
- Vapor pressure** : Not available.
- Vapor density** : Not available.
- Relative density** : 0.99 to 1.05 (Water = 1)

- Product AT USE DILUTION**
- Liquid.
- Blue
- Fragrance-like
- 7.2 to 7.9
- > 100°C

## Section 9. Physical and chemical properties

- Solubility** : Easily soluble in the following materials: cold water and hot water.
- Partition coefficient: n-octanol/water** : Not available.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Odor threshold** : Not available.
- Viscosity** : Kinematic (room temperature): 0 cm<sup>2</sup>/s (0 cSt)

## Section 10. Stability and reactivity

### Product AS SOLD

- Stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : No specific data.
- Materials to avoid** : Not available.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

- Route of exposure** : Skin contact, Eye contact, Inhalation, Ingestion

### Product AS SOLD

#### Symptoms

- Eye contact** : Adverse symptoms may include the following:  
irritation  
watering  
redness
- Skin contact** : No specific data.
- Inhalation** : No specific data.
- Ingestion** : No specific data.
- Acute toxicity**
- Eye contact** : Causes eye irritation.
- Skin contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

### Product AT USE DILUTION

No specific data.

No specific data.

No specific data.

No specific data.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

#### Toxicity data

##### Product/ingredient name

d-glucopyranose, oligomeric, decyl octyl glycosides	LD50 Dermal	Rabbit	>2000 mg/kg
	LD50 Oral	Rat	>5000 mg/kg

#### Chronic toxicity

- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.

## Section 11. Toxicological information

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

## Section 12. Ecological information

### Product AS SOLD

**Ecotoxicity** : No known significant effects or critical hazards.

### Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
d-glucopyranose, oligomeric, decyl octyl glycosides	Acute EC50 18 mg/l	Aquatic plants	72 hours

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : **Product AS SOLD**  
: Diluted product can be flushed to sanitary sewer.  
Discard empty container in trash.

**Product AT USE DILUTION**  
Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

## Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

### DOT

**DOT Classification** : Not regulated.

### IMO/IMDG

**IMO/IMDG Classification** : Not regulated.

For transport in bulk, see shipping documents for specific transportation information.

### **Product AT USE DILUTION**

Not intended for transport.

## Section 15. Regulatory information

### Product AS SOLD

#### U.S. Federal regulations

**TSCA 8(b) inventory** : All components are listed or exempted.

**SARA 302/304/311/312 extremely hazardous substances**: No listed substance

**SARA 302/304 emergency planning and notification**: No listed substance

<u>SARA 313</u>	<u>Product name</u>	<u>CAS number</u>	<u>Concentration</u>
<b>Form R - Reporting requirements</b>	: No listed substance		

**California Prop. 65** : No listed substance

## Section 16. Other information

### Product AS SOLD

Hazardous Material :  
Information System (U.S.A.)

Health	1
Flammability	0
Physical hazards	0

National Fire Protection :  
Association (U.S.A.)



### Product AT USE DILUTION

Health	0
Flammability	0
Physical hazards	0



Date of issue : 16 Dec 2013  
Prepared by : Regulatory Affairs  
1-800-352-5326

### Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : LASER

Other means of identification : Not applicable

Recommended use : Floor care product

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : Product is sold ready to use.

Company : Ecolab Inc.  
370 N. Wabasha Street  
St. Paul, Minnesota USA 55102  
1-800-352-5326

Emergency telephone : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date : 11/26/2014

**SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification**

Not a hazardous substance or mixture.

**GHS Label element**

Precautionary Statements : **Prevention:**  
Wash hands thoroughly after handling.  
**Response:**  
Get medical advice/ attention if you feel unwell.  
**Storage:**  
Store in accordance with local regulations.

Other hazards : None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
ethanol, 2-(2-ethoxyethoxy)-	111-90-0	1 - 5

**SECTION 4. FIRST AID MEASURES**

In case of eye contact : Rinse with plenty of water.

In case of skin contact : Rinse with plenty of water.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

If inhaled : Get medical attention if symptoms occur.

Protection of first-aiders : No special precautions are necessary for first aid responders.

Notes to physician : No specific measures identified.



# SAFETY DATA SHEET

## LASER

Most important symptoms and effects, both acute and delayed : See Section 11 for more detailed information on health effects and symptoms.

### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Not flammable or combustible.
- Hazardous combustion products : Decomposition products may include the following materials:  
Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Sulfur oxides  
Oxides of phosphorus
- Special protective equipment for fire-fighters : Use personal protective equipment.
- Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : No special environmental precautions required.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

### SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Wash hands after handling. For personal protection see section 8.
- Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.
- Storage temperature : 20 °C to 45 °C

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis

# SAFETY DATA SHEET

## LASER

ethanol, 2-(2-ethoxyethoxy)-	111-90-0	TWA	25 ppm	WEEL
------------------------------	----------	-----	--------	------

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### Personal protective equipment

Eye protection : No special protective equipment required.

Hand protection : No special protective equipment required.

Skin protection : No special protective equipment required.

Respiratory protection : No personal respiratory protective equipment normally required.

Hygiene measures : Wash hands before breaks and immediately after handling the product.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Emulsion  
Color : opaque, white  
Odor : like acrylic  
pH : 7.66 - 9.66, 100 %  
Flash point : 93 °C closed cup  
Odor Threshold : No data available  
Melting point/freezing point : No data available  
Initial boiling point and boiling range : No data available  
Evaporation rate : No data available  
Flammability (solid, gas) : No data available  
Upper explosion limit : No data available  
Lower explosion limit : No data available  
Vapor pressure : No data available  
Relative vapor density : No data available  
Relative density : 1.005 - 1.035  
Water solubility : soluble  
Solubility in other solvents : No data available  
Partition coefficient: n-octanol/water : No data available  
Autoignition temperature : No data available  
Thermal decomposition : No data available  
Viscosity, kinematic : No data available  
Explosive properties : No data available  
Oxidizing properties : No data available  
Molecular weight : No data available  
VOC : No data available

# SAFETY DATA SHEET

**LASER**

## SECTION 10. STABILITY AND REACTIVITY

- Chemical stability : Stable under normal conditions.
- Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.
- Conditions to avoid : None known.
- Incompatible materials : None known.
- Hazardous decomposition products : Decomposition products may include the following materials:  
Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Sulfur oxides  
Oxides of phosphorus

## SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

### Potential Health Effects

- Eyes : Health injuries are not known or expected under normal use.
- Skin : Health injuries are not known or expected under normal use.
- Ingestion : Health injuries are not known or expected under normal use.
- Inhalation : Health injuries are not known or expected under normal use.
- Chronic Exposure : Health injuries are not known or expected under normal use.

### Experience with human exposure

- Eye contact : No symptoms known or expected.
- Skin contact : No symptoms known or expected.
- Ingestion : No symptoms known or expected.
- Inhalation : No symptoms known or expected.

### Toxicity

- Acute oral toxicity : Acute toxicity estimate > 5,000 mg/kg
- Acute inhalation toxicity : 4 h Acute toxicity estimate : > 40 mg/l
- Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg
- Skin corrosion/irritation : No data available
- Serious eye damage/eye irritation : No data available
- Respiratory or skin sensitization : No data available
- Carcinogenicity : No data available

# SAFETY DATA SHEET

## LASER

Reproductive effects : No data available  
Germ cell mutagenicity : No data available  
Teratogenicity : No data available  
STOT-single exposure : No data available  
STOT-repeated exposure : No data available  
Aspiration toxicity : No data available

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Environmental Effects : Harmful to aquatic life.

### Product

Toxicity to fish : No data available  
Toxicity to daphnia and other aquatic invertebrates : No data available  
Toxicity to algae : No data available

### Ingredients

Toxicity to fish : ethanol, 2-(2-ethoxyethoxy)-  
96 h LC50 Fish: 6,010 mg/l

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : The product should not be allowed to enter drains, water courses or the soil.

Disposal considerations : Dispose of in accordance with local, state, and federal regulations.

## SECTION 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

### Land transport (DOT)

Not dangerous goods

### Sea transport (IMDG/IMO)

# SAFETY DATA SHEET

**LASER**

Not dangerous goods

## SECTION 15. REGULATORY INFORMATION

### EPCRA - Emergency Planning and Community Right-to-Know

#### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : No SARA Hazards

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

ethanol, 2-(2-ethoxyethoxy)-	111-90-0	4.4562 %
------------------------------	----------	----------

#### California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

**The ingredients of this product are reported in the following inventories:**

**United States TSCA Inventory :**  
On TSCA Inventory

**Canadian Domestic Substances List (DSL) :**  
All components of this product are on the Canadian DSL.

**Australia Inventory of Chemical Substances (AICS) :**  
not determined

**New Zealand. Inventory of Chemical Substances :**  
not determined

**Japan. ENCS - Existing and New Chemical Substances Inventory :**  
not determined

**Japan. ISHL - Inventory of Chemical Substances (METI) :**  
not determined

**Korea. Korean Existing Chemicals Inventory (KECI) :**  
On the inventory, or in compliance with the inventory

**Philippines Inventory of Chemicals and Chemical Substances (PICCS) :**  
not determined

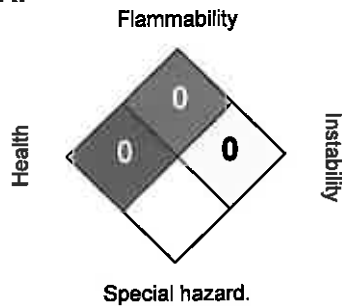
**China. Inventory of Existing Chemical Substances in China (IECSC) :**  
not determined

## SECTION 16. OTHER INFORMATION

# SAFETY DATA SHEET

## LASER

### NFPA:



### HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

Issuing date                   : 11/26/2014  
Version                        : 1.2  
Prepared by                  : Regulatory Affairs

**REVISED INFORMATION:** Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

## KOOL KLENE

### Section 1. Chemical product and company identification

**Product name** : KOOL KLENE  
**Recommended use and restrictions** : Cleaning product  
 Use only for the purpose on the product label.

**Product dilution information** : Not applicable

**Supplier's information** : Ecolab Inc. Institutional Division  
 370 N. Wabasha Street  
 St. Paul, MN 55102  
 1-800-352-5326

**Code** : 965806-03

**Date of issue** : 25 Jul 2013

EMERGENCY HEALTH INFORMATION: 1-800-328-0026  
 Outside United States and Canada CALL 1-651-222-5352 (in USA)

### Section 2. Hazards identification

**GHS Classification** : **Product AS SOLD**  
 FLAMMABLE LIQUIDS - Category 3  
 SERIOUS EYE DAMAGE/ EYE IRRITATION -  
 Category 2B

GHS label elements

**Signal word** : Warning

**Symbol** :

**Hazard statements** : Flammable liquid and vapor.  
 Causes eye irritation.

Precautionary statements

**Prevention** : Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Keep container tightly closed. Wash hands thoroughly after handling.

**Response** : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

**Storage** : Store in a well-ventilated place. Keep cool.

**Disposal** : See section 13 for waste disposal information.

**Other hazards** : None known.

**Product AT USE DILUTION**

Product is sold ready to use.

### Section 3. Composition/information on ingredients

Substance/mixture : Mixture

**Product AS SOLD**

Hazardous ingredients	Concentration Range (%)	CAS number
GLYCERIN	20 - 50	56-81-5
ISOPROPYL ALCOHOL	5 - 20	67-63-0
ETHANOLAMINE	1 - 5	141-43-5
poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-	1 - 5	34398-01-1

**Product AT USE DILUTION**

Hazardous ingredients	Concentration Range (%)	CAS number
Product is sold ready to use.		

### Section 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
<b>Eye contact</b>	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.	Product is sold ready to use.
<b>Skin contact</b>	: No known effect after skin contact. Rinse with water for a few minutes.	
<b>Inhalation</b>	: No special measures required. Treat symptomatically.	
<b>Ingestion</b>	: Get medical attention if symptoms occur.	
<b>Protection of first-aiders</b>	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.	
<b>Notes to physician</b>	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.	

See toxicological information (section 11)

### Section 5. Fire-fighting measures

**Product AS SOLD**

<b>Suitable fire extinguishing media</b>	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
<b>Specific hazards arising from the chemical</b>	: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
<b>Hazardous thermal decomposition products</b>	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
<b>Specific fire-fighting methods</b>	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
<b>Special protective equipment for fire-fighters</b>	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.



## Section 6. Accidental release measures

	<b>Product AS SOLD</b>
<b>Personal precautions</b>	: Eliminate all ignition sources. Use personal protective equipment as required. Do not touch or walk through spilled material.
<b>Environmental precautions</b>	: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
<b>Methods for cleaning up</b>	: If emergency personnel are not present, contain and collect small spillages with non-combustible absorbent material, e.g. sand, earth or other suitable material and place in a suitable container for disposal. Use a water rinse for final clean-up.

**Product AT USE DILUTION**  
Product is sold ready to use.

## Section 7. Handling and storage

	<b>Product AS SOLD</b>
<b>Handling</b>	: Avoid contact with eyes, skin and clothing. Keep away from heat, sparks and flame. To avoid fire, eliminate ignition sources. Use only with adequate ventilation. Wash thoroughly after handling.
<b>Storage</b>	: Keep out of reach of children. Keep container tightly closed. Keep container tightly closed and sealed until ready for use. Keep container in a cool, well-ventilated area. Avoid all possible sources of ignition (spark or flame). Store in a segregated and approved area.  Store between the following temperatures: 0 and 35°C

**Product AT USE DILUTION**  
Product is sold ready to use.

## Section 8. Exposure controls/personal protection

### Control parameters

Ingredient name	Exposure limits
GLYCERIN	<b>OSHA PEL (United States, 6/2010).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
ISOPROPYL ALCOHOL	TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust <b>ACGIH TLV (United States, 3/2012).</b> TWA: 10 mg/m <sup>3</sup> 8 hours. <b>ACGIH TLV (United States, 3/2012).</b> STEL: 400 ppm 15 minutes. TWA: 200 ppm 8 hours. <b>OSHA PEL (United States, 6/2010).</b> TWA: 980 mg/m <sup>3</sup> 8 hours. TWA: 400 ppm 8 hours. <b>NIOSH REL (United States, 6/2009).</b> TWA: 400 ppm 10 hours. TWA: 980 mg/m <sup>3</sup> 10 hours. STEL: 500 ppm 15 minutes. STEL: 1225 mg/m <sup>3</sup> 15 minutes.
ETHANOLAMINE	<b>ACGIH TLV (United States, 3/2012).</b> STEL: 15 mg/m <sup>3</sup> 15 minutes. STEL: 6 ppm 15 minutes. TWA: 7.5 mg/m <sup>3</sup> 8 hours. TWA: 3 ppm 8 hours.

## Section 8. Exposure controls/personal protection

**OSHA PEL (United States, 6/2010).**

TWA: 6 mg/m<sup>3</sup> 8 hours.

TWA: 3 ppm 8 hours.

**NIOSH REL (United States, 6/2009).**

TWA: 3 ppm 10 hours.

TWA: 8 mg/m<sup>3</sup> 10 hours.

STEL: 6 ppm 15 minutes.

STEL: 15 mg/m<sup>3</sup> 15 minutes.

	<b>Product AS SOLD</b>	<b>Product AT USE DILUTION</b>
<b>Appropriate engineering controls</b>	: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.	Product is sold ready to use.
<b>Personal protection</b>		
<b>Eye protection</b>	: No protective equipment is needed under normal use conditions.	
<b>Hand protection</b>	: No protective equipment is needed under normal use conditions.	
<b>Skin protection</b>	: No protective equipment is needed under normal use conditions.	
<b>Respiratory protection</b>	: A respirator is not needed under normal and intended conditions of product use.	
<b>Hygiene measures</b>	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.	

## Section 9. Physical and chemical properties

	<b>Product AS SOLD</b>	<b>Product AT USE DILUTION</b>
<b>Physical state</b>	: Liquid.	Product is sold ready to use.
<b>Color</b>	: Green [Light]	
<b>Odor</b>	: Alcohol-like	
<b>pH</b>	: 10.6 to 11.8 (100%)	
<b>Flash point</b>	: 41 °C (Closed cup)	
<b>Explosion limits</b>	: Not available.	
<b>Flammability (solid, gas)</b>	: Not available.	
<b>Melting point</b>	: Not available.	
<b>Boiling point</b>	: Not available.	
<b>Evaporation rate (butyl acetate = 1)</b>	: Not available.	
<b>Vapor pressure</b>	: Not available.	
<b>Vapor density</b>	: Not available.	
<b>Relative density</b>	: 1.065 to 1.085 (Water = 1)	
<b>Solubility</b>	: Easily soluble in the following materials: cold water and hot water.	

## Section 9. Physical and chemical properties

Partition coefficient : Not available.  
 n-octanol/water  
 Auto-ignition temperature : Not available.  
 Decomposition temperature : Not available.  
 Odor threshold : Not available.  
 Viscosity : Not available.

## Section 10. Stability and reactivity

### Product AS SOLD

Stability : The product is stable.  
 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.  
 Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.  
 Materials to avoid : Reactive or incompatible with the following materials: acids.  
 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

Route of exposure : Skin contact, Eye contact, Inhalation, Ingestion

### Product AS SOLD

#### Symptoms

Eye contact : Adverse symptoms may include the following:  
 irritation  
 watering  
 redness  
 Skin contact : No specific data.  
 Inhalation : No specific data.  
 Ingestion : No specific data.

#### Acute toxicity

Eye contact : Causes eye irritation.  
 Skin contact : No known significant effects or critical hazards.  
 Inhalation : No known significant effects or critical hazards.  
 Ingestion : No known significant effects or critical hazards.

#### Toxicity data

##### Product/ingredient name

glycerin	LC50 Inhalation	Rat	>2.75 mg/l
	Dusts and mists		
propan-2-ol	LD50 Dermal	Rabbit	23000 mg/kg
	LD50 Oral	Rat	18300 mg/kg
	LC50 Inhalation	Rat	30 mg/l
2-aminoethanol	Vapor		
	LD50 Dermal	Rabbit	12870 mg/kg
	LD50 Oral	Rat	4710 mg/kg
	LD50 Dermal	Rabbit	1025 mg/kg
poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-	LD50 Oral	Rat	1089 mg/kg
	LD50 Dermal	Rabbit	>2000 mg/kg
	LD50 Oral	Rat	1700 mg/kg

### Product AT USE DILUTION

Product is sold ready to use.

## Section 11. Toxicological information

### Chronic toxicity

- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

## Section 12. Ecological information

### Product AS SOLD

- Ecotoxicity** : No known significant effects or critical hazards.

### Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
glycerin	Acute LC50 855 mg/l	Fish	96 hours
propan-2-ol	Acute LC50 9640 mg/l	Fish	96 hours
2-aminoethanol	Acute EC50 65 mg/l	Daphnia	48 hours
poly(oxy-1,2-ethanediyl), .alpha.-undecyl- omega.-hydroxy-	Acute LC50 3.2 mg/l	Fish	96 hours

- Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

### Product AS SOLD

- Disposal methods** : Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations.

- RCRA classification** : Unused product is D001 (Ignitable)

### Product AT USE DILUTION

Product is sold ready to use.

## Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

### DOT

**DOT Classification** : Not regulated.

### IMO/IMDG

**IMO/IMDG Classification** : UN1993  
**IMO/IMDG Proper shipping name** : FLAMMABLE LIQUID, N.O.S. (isopropanol)  
**Class** : 3  
**Packing group** : III

For transport in bulk, see shipping documents for specific transportation information.

### Product AT USE DILUTION

Not intended for transport.

## Section 15. Regulatory information

Product AS SOLD

**U.S. Federal regulations**

TSCA 8(b) inventory : All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No listed substance

SARA 302/304 emergency planning and notification: No listed substance

**SARA 313** Product name CAS number Concentration

Form R - Reporting requirements : No listed substance

**California Prop. 65** : No listed substance

## Section 16. Other information

Product AS SOLD

Hazardous Material Information System (U.S.A.) :

Health	1
Flammability	2
Physical hazards	0

National Fire Protection Association (U.S.A.) :



Date of issue : 25 Jul 2013  
 Prepared by : Regulatory Affairs  
 1-800-352-5326

**Notice to reader**

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : SOLID METAL PRO

Other means of identification : Not applicable

Recommended use : Machine Warewashing Detergent

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 0.1 % - 0.29 %

Company : Ecolab Inc.  
370 N. Wabasha Street  
St. Paul, Minnesota USA 55102  
1-800-352-5326

Emergency telephone : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date : 11/04/2014

**SECTION 2. HAZARDS IDENTIFICATION**
**GHS Classification**
**Product AS SOLD**

Acute toxicity (Oral) : Category 4  
 Skin corrosion : Category 1A  
 Serious eye damage : Category 1

**Product AT USE DILUTION**

Not a hazardous substance or mixture.

**GHS Label element**
**Product AS SOLD**

Hazard pictograms



Signal Word : Danger

Hazard Statements : Harmful if swallowed.  
Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention:**  
Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product.  
**Response:**  
IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER or doctor/ physician. Wash

# SAFETY DATA SHEET

## SOLID METAL PRO

contaminated clothing before reuse.

**Storage:**

Store locked up.

**Disposal:**

Dispose of contents/ container to an approved waste disposal plant.

### Product AT USE DILUTION

**Precautionary Statements**

**Prevention:**

Wash hands thoroughly after handling.

**Response:**

Get medical advice/ attention if you feel unwell.

**Storage:**

Store in accordance with local regulations.

**Other hazards**

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Product AS SOLD

Pure substance/mixture : Mixture

**Chemical Name**

sodium metasilicate

Sodium Carbonate(soda)

**CAS-No.**

6834-92-0

497-19-8

**Concentration (%)**

30 - 60

10 - 30

### Product AT USE DILUTION

No hazardous ingredients

## SECTION 4. FIRST AID MEASURES

### Product AS SOLD

In case of eye contact

: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

In case of skin contact

: Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

If swallowed

: Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

If inhaled

: Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

Protection of first-aiders

: If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Notes to physician

: Treat symptomatically.

Most important symptoms and effects, both acute and delayed

: See Section 11 for more detailed information on health effects and symptoms.

### Product AT USE DILUTION

In case of eye contact

: Rinse with plenty of water.

# SAFETY DATA SHEET

## SOLID METAL PRO

- In case of skin contact : Rinse with plenty of water.
- If swallowed : Rinse mouth. Get medical attention if symptoms occur.
- If inhaled : Get medical attention if symptoms occur.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Product AS SOLD

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Not flammable or combustible.
- Hazardous combustion products : Decomposition products may include the following materials:  
Carbon oxides  
Nitrogen oxides (NOx)  
Sulfur oxides  
Oxides of phosphorus
- Special protective equipment for fire-fighters : Use personal protective equipment.
- Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Product AS SOLD

- Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not allow contact with soil, surface or ground water.
- Methods and materials for containment and cleaning up : Sweep up and shovel into suitable containers for disposal.

#### Product AT USE DILUTION

- Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : No special environmental precautions required.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with



# SAFETY DATA SHEET

## SOLID METAL PRO

water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

### SECTION 7. HANDLING AND STORAGE

#### Product AS SOLD

- Advice on safe handling : Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling.
- Conditions for safe storage : Do not store near acids. Keep out of reach of children. Store in suitable labeled containers.
- Storage temperature : 0 °C to 40 °C

#### Product AT USE DILUTION

- Advice on safe handling : Wash hands after handling. For personal protection see section 8.
- Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Product AS SOLD

##### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

- Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

##### Personal protective equipment

- Eye protection : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.
- Hand protection : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.
- Skin protection : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.
- Respiratory protection : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

#### Product AT USE DILUTION

- Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

##### Personal protective equipment

- Eye protection : No special protective equipment required.

# SAFETY DATA SHEET

## SOLID METAL PRO

Hand protection	: No special protective equipment required.
Skin protection	: No special protective equipment required.
Respiratory protection	: No personal respiratory protective equipment normally required.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	Product AS SOLD	Product AT USE DILUTION
Appearance	: Cast Solid	liquid
Color	: opaque, light yellow	colorless
Odor	: odorless	odorless
pH	: 13.0 - 14.0, 1 %	10.8 - 11.6
Flash point	: Not applicable, Does not sustain combustion.	
Odor Threshold	: No data available	
Melting point/freezing point	: No data available	
Initial boiling point and boiling range	: No data available	
Evaporation rate	: No data available	
Flammability (solid, gas)	: No data available	
Upper explosion limit	: No data available	
Lower explosion limit	: No data available	
Vapor pressure	: No data available	
Relative vapor density	: No data available	
Relative density	: 1.5	
Water solubility	: soluble	
Solubility in other solvents	: No data available	
Partition coefficient: n-octanol/water	: No data available	
Autoignition temperature	: No data available	
Thermal decomposition	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
Molecular weight	: No data available	
VOC	: No data available	

### SECTION 10. STABILITY AND REACTIVITY

<b>Product AS SOLD</b>	
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: None known.

# SAFETY DATA SHEET

## SOLID METAL PRO

- Incompatible materials : Acids  
Organic materials
- Hazardous decomposition products : Decomposition products may include the following materials:  
Carbon oxides  
Nitrogen oxides (NOx)  
Sulfur oxides  
Oxides of phosphorus

### SECTION 11. TOXICOLOGICAL INFORMATION

- Information on likely routes of exposure : Eye contact, Skin contact

#### Potential Health Effects

##### Product AS SOLD

- Eyes : Causes serious eye damage.
- Skin : Causes severe skin burns.
- Ingestion : Harmful if swallowed. Causes digestive tract burns.
- Inhalation : May cause nose, throat, and lung irritation.
- Chronic Exposure : Health injuries are not known or expected under normal use.

##### Product AT USE DILUTION

- Eyes : Health injuries are not known or expected under normal use.
- Skin : Health injuries are not known or expected under normal use.
- Ingestion : Health injuries are not known or expected under normal use.
- Inhalation : Health injuries are not known or expected under normal use.
- Chronic Exposure : Health injuries are not known or expected under normal use.

#### Experience with human exposure

##### Product AS SOLD

- Eye contact : Redness, Pain, Corrosion
- Skin contact : Redness, Pain, Corrosion
- Ingestion : Corrosion, Abdominal pain
- Inhalation : Respiratory irritation, Cough

##### Product AT USE DILUTION

- Eye contact : No symptoms known or expected.
- Skin contact : No symptoms known or expected.
- Ingestion : No symptoms known or expected.
- Inhalation : No symptoms known or expected.

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : SOLID METAL PRO

Other means of identification : Not applicable

Recommended use : Machine Warewashing Detergent

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 0.1 % - 0.29 %

Company : Ecolab Inc.  
370 N. Wabasha Street  
St. Paul, Minnesota USA 55102  
1-800-352-5326

Emergency telephone : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date : 11/04/2014

**SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification**

**Product AS SOLD**

Acute toxicity (Oral) : Category 4  
Skin corrosion : Category 1A  
Serious eye damage : Category 1

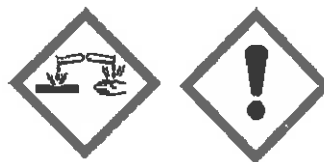
**Product AT USE DILUTION**

Not a hazardous substance or mixture.

**GHS Label element**

**Product AS SOLD**

Hazard pictograms



Signal Word : Danger

Hazard Statements : Harmful if swallowed.  
Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention:**  
Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product.  
**Response:**  
IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER or doctor/ physician. Wash

# SAFETY DATA SHEET

## SOLID METAL PRO

contaminated clothing before reuse.

**Storage:**

Store locked up.

**Disposal:**

Dispose of contents/ container to an approved waste disposal plant.

### Product AT USE DILUTION

#### Precautionary Statements

**Prevention:**

Wash hands thoroughly after handling

**Response:**

Get medical advice/ attention if you feel unwell.

**Storage:**

Store in accordance with local regulations.

#### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Product AS SOLD

Pure substance/mixture : Mixture

#### Chemical Name

sodium metasilicate

#### CAS-No.

6834-92-0

#### Concentration (%)

30 - 60

Sodium Carbonate(soda)

497-19-8

10 - 30

### Product AT USE DILUTION

No hazardous ingredients

## SECTION 4. FIRST AID MEASURES

### Product AS SOLD

In case of eye contact

: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

In case of skin contact

: Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

If swallowed

: Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

If inhaled

: Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

Protection of first-aiders

: If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Notes to physician

: Treat symptomatically.

Most important symptoms and effects, both acute and delayed

: See Section 11 for more detailed information on health effects and symptoms.

### Product AT USE DILUTION

In case of eye contact

: Rinse with plenty of water

# SAFETY DATA SHEET

## SOLID METAL PRO

- In case of skin contact : Rinse with plenty of water.
- If swallowed : Rinse mouth. Get medical attention if symptoms occur.
- If inhaled : Get medical attention if symptoms occur.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Product AS SOLD

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Not flammable or combustible.
- Hazardous combustion products : Decomposition products may include the following materials:  
Carbon oxides  
Nitrogen oxides (NOx)  
Sulfur oxides  
Oxides of phosphorus
- Special protective equipment for fire-fighters : Use personal protective equipment.
- Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Product AS SOLD

- Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not allow contact with soil, surface or ground water.
- Methods and materials for containment and cleaning up : Sweep up and shovel into suitable containers for disposal.

#### Product AT USE DILUTION

- Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : No special environmental precautions required.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with

# SAFETY DATA SHEET

## SOLID METAL PRO

water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

### SECTION 7. HANDLING AND STORAGE

#### Product AS SOLD

- Advice on safe handling : Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling.
- Conditions for safe storage : Do not store near acids. Keep out of reach of children. Store in suitable labeled containers.
- Storage temperature : 0 °C to 40 °C

#### Product AT USE DILUTION

- Advice on safe handling : Wash hands after handling. For personal protection see section 8.
- Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Product AS SOLD

##### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

- Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

##### Personal protective equipment

- Eye protection : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.
- Hand protection : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.
- Skin protection : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.
- Respiratory protection : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

#### Product AT USE DILUTION

- Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

##### Personal protective equipment

- Eye protection : No special protective equipment required.

# SAFETY DATA SHEET

## SOLID METAL PRO

Hand protection	: No special protective equipment required.
Skin protection	: No special protective equipment required.
Respiratory protection	: No personal respiratory protective equipment normally required.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	Product AS SOLD	Product AT USE DILUTION
Appearance	: Cast Solid	liquid
Color	: opaque, light yellow	colorless
Odor	: odorless	odorless
pH	: 13.0 - 14.0, 1 %	10.8 - 11.6
Flash point	: Not applicable, Does not sustain combustion.	
Odor Threshold	: No data available	
Melting point/freezing point	: No data available	
Initial boiling point and boiling range	: No data available	
Evaporation rate	: No data available	
Flammability (solid, gas)	: No data available	
Upper explosion limit	: No data available	
Lower explosion limit	: No data available	
Vapor pressure	: No data available	
Relative vapor density	: No data available	
Relative density	: 1.5	
Water solubility	: soluble	
Solubility in other solvents	: No data available	
Partition coefficient: n-octanol/water	: No data available	
Autoignition temperature	: No data available	
Thermal decomposition	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
Molecular weight	: No data available	
VOC	: No data available	

### SECTION 10. STABILITY AND REACTIVITY

<b>Product AS SOLD</b>	
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: None known.



# SAFETY DATA SHEET

## SOLID METAL PRO

- Incompatible materials : Acids  
Organic materials
- Hazardous decomposition products : Decomposition products may include the following materials:  
Carbon oxides  
Nitrogen oxides (NOx)  
Sulfur oxides  
Oxides of phosphorus

### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Eye contact, Skin contact

#### Potential Health Effects

##### Product AS SOLD

- Eyes : Causes serious eye damage.
- Skin : Causes severe skin burns.
- Ingestion : Harmful if swallowed. Causes digestive tract burns.
- Inhalation : May cause nose, throat, and lung irritation.
- Chronic Exposure : Health injuries are not known or expected under normal use.

##### Product AT USE DILUTION

- Eyes : Health injuries are not known or expected under normal use.
- Skin : Health injuries are not known or expected under normal use.
- Ingestion : Health injuries are not known or expected under normal use.
- Inhalation : Health injuries are not known or expected under normal use.
- Chronic Exposure : Health injuries are not known or expected under normal use.

#### Experience with human exposure

##### Product AS SOLD

- Eye contact : Redness, Pain, Corrosion
- Skin contact : Redness, Pain, Corrosion
- Ingestion : Corrosion, Abdominal pain
- Inhalation : Respiratory irritation, Cough

##### Product AT USE DILUTION

- Eye contact : No symptoms known or expected.
- Skin contact : No symptoms known or expected.
- Ingestion : No symptoms known or expected.
- Inhalation : No symptoms known or expected.

# SAFETY DATA SHEET

## SOLID METAL PRO

### Toxicity

#### Product AS SOLD

Acute oral toxicity	:	Acute toxicity estimate 1,207 mg/kg
Acute inhalation toxicity	:	No data available
Acute dermal toxicity	:	No data available
Skin corrosion/irritation	:	No data available
Serious eye damage/eye irritation	:	No data available
Respiratory or skin sensitization	:	Contains an ingredient that can cause asthmatic-like reactions in sulfite-sensitive individuals.
Carcinogenicity	:	No data available
Reproductive effects	:	No data available
Germ cell mutagenicity	:	No data available
Teratogenicity	:	No data available
STOT-single exposure	:	No data available
STOT-repeated exposure	:	No data available
Aspiration toxicity	:	No data available

## SECTION 12. ECOLOGICAL INFORMATION

#### Product AS SOLD

##### Ecotoxicity

Environmental Effects : This product has no known ecotoxicological effects.

##### Product

Toxicity to fish : No data available

Toxicity to daphnia and other aquatic invertebrates : No data available

Toxicity to algae : No data available

##### Ingredients

Toxicity to fish : sodium metasilicate  
96 h LC50 Fish: 210 mg/l

##### Ingredients

Toxicity to daphnia and other aquatic invertebrates : Sodium Carbonate(soda)  
48 h EC50 Daphnia : 200 mg/l

##### Persistence and degradability

No data available

##### Bioaccumulative potential

No data available

##### Mobility in soil

No data available

##### Other adverse effects

# SAFETY DATA SHEET

## SOLID METAL PRO

No data available

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Product AS SOLD

Disposal methods : Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.

RCRA - Resource Conservation and Recovery Authorization Act Hazardous waste : D002 (Corrosive)

#### Product AT USE DILUTION

Disposal methods : Diluted product can be flushed to sanitary sewer.

Disposal considerations : Dispose of in accordance with local, state, and federal regulations.

### SECTION 14. TRANSPORT INFORMATION

#### Product AS SOLD

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

#### Land transport (DOT)

UN number : 3253  
Description of the goods : DISODIUM TRIOXOSILICATE, MIXTURE  
Class : 8  
Packing group : III  
Environmentally hazardous : no

#### Sea transport (IMDG/IMO)

UN number : 3253  
Description of the goods : DISODIUM TRIOXOSILICATE, MIXTURE  
Class : 8  
Packing group : III  
Marine pollutant : no

#### Product AT USE DILUTION

Not intended for transport.

### SECTION 15. REGULATORY INFORMATION

#### Product AS SOLD

**EPCRA - Emergency Planning and Community Right-to-Know**

#### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

# SAFETY DATA SHEET

## SOLID METAL PRO

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Acute Health Hazard

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

**The ingredients of this product are reported in the following inventories:**

**United States TSCA Inventory :**  
On TSCA Inventory

**Canadian Domestic Substances List (DSL) :**  
All components of this product are on the Canadian DSL.

**Australia Inventory of Chemical Substances (AICS) :**  
On the inventory, or in compliance with the inventory

**New Zealand. Inventory of Chemical Substances :**  
On the inventory, or in compliance with the inventory

**Japan. ENCS - Existing and New Chemical Substances Inventory :**  
not determined

**Japan. ISHL - Inventory of Chemical Substances (METI) :**  
not determined

**Korea. Korean Existing Chemicals Inventory (KECI) :**  
On the inventory, or in compliance with the inventory

**Philippines Inventory of Chemicals and Chemical Substances (PICCS) :**  
On the inventory, or in compliance with the inventory

**China. Inventory of Existing Chemical Substances in China (IECSC) :**  
On the inventory, or in compliance with the inventory

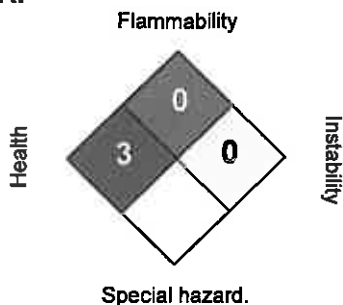
## SECTION 16. OTHER INFORMATION

**Product AS SOLD**

# SAFETY DATA SHEET

## SOLID METAL PRO

### NFPA:



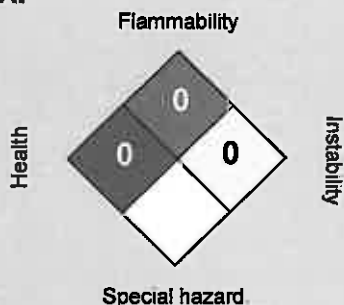
### HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

### Product AT USE DILUTION

#### NFPA:



#### HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

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Version : 1.0  
Prepared by : Regulatory Affairs

**REVISED INFORMATION:** Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.