



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

State of West Virginia
 Request for Quotation
 07 - Chemicals

Proc Folder: 67018

Doc Description: Addendum No. 3- Laundry items for all WV DOC facilities

Proc Type: Central Master Agreement

Date Issued	Solicitation Closes	Solicitation No	Version
2015-04-15	2015-04-21 13:30:00	CRFQ 0608 COR1500000037	4

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
 Bruce Kottom Phone: (651) 250 - 2892
 Orders PH: (800) 352 - 5326
 EM: institutionalorders@ecolab.com

04/20/15 09:28:35
 @ Purchasing Division

FOR INFORMATION CONTACT THE BUYER

Tara Lyle
 (304) 558-2544
 tara.l.lyle@wv.gov

Signature X  Bruce Kottom
 Sr. Government Sales Mgr FEIN # 41 - 0231510 Ecolab Inc.

DATE 04/16/2015

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

		SHIP TO	
FISCAL DEPARTMENT DIVISION OF CORRECTIONS - CENTRAL OFFICE 1409 GREENBRIER ST STE 300		FISCAL DEPARTMENT DIVISION OF CORRECTIONS - CENTRAL OFFICE STE 300 1409 GREENBRIER ST	
CHARLESTON	WV25311	CHARLESTON	WV 25311
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Laundry products	115200.00000	OZ	\$0.14 per oz \$89.00 per pail	\$16,128.00

Comm Code	Manufacturer	Specification	Model #
47131811	Ecolab Inc.	Tri Star Break III, 5 gallon pail	#16558

Extended Description :

Addendum No. 3 - To move the bid opening from 04/16/2015 to 04/21/2015. See attached pages for more information.

The WV Purchasing Division for the agency, WV Division of Corrections, is soliciting bids for an open-end contract to provide laundry dispensing equipment, service, detergent and other supplies for all WV Division of Corrections facilities throughout the State of WV, per the attached specifications.

3.1.1.1. Detergent: Liquid, Laundry Alkali Booster - Ecolab 16558 Tri Star Break III or equivalent

		SHIP TO	
FISCAL DEPARTMENT DIVISION OF CORRECTIONS - CENTRAL OFFICE 1409 GREENBRIER ST STE 300		FISCAL DEPARTMENT DIVISION OF CORRECTIONS - CENTRAL OFFICE STE 300 1409 GREENBRIER ST	
CHARLESTON	WV25311	CHARLESTON	WV 25311
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
2	Laundry products	156200.00000	OZ	\$0.28 per oz \$158.87 per case	\$43,736.00

Comm Code	Manufacturer	Specification	Model #
47131811	Ecolab Inc.	Solid Surge Plus 4/9 lb case	#17905

Extended Description :

3.1.1.2. Detergent: Solid Laundry Detergent- Ecolab 17905, Solid Surge Plus or equivalent

		SHIP TO	
FISCAL DEPARTMENT DIVISION OF CORRECTIONS - CENTRAL OFFICE 1409 GREENBRIER ST STE 300		FISCAL DEPARTMENT DIVISION OF CORRECTIONS - CENTRAL OFFICE STE 300 1409 GREENBRIER ST	
CHARLESTON	WV25311	CHARLESTON	WV 25311
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
3	Laundry products	46100.00000	OZ	\$0.46 per oz \$58.99 per case	\$21,206.00

Comm Code	Manufacturer	Specification	Model #
47131811	Ecolab Inc.	Solid Stain Away 2/4 lb case	#13649

Extended Description :

3.1.1.3. Detergent Booster: Solid Laundry Chlorine Bleach- Ecolab 13649, Solid Stain-Away or equivalent

FISCAL DEPARTMENT		FISCAL DEPARTMENT	
DIVISION OF CORRECTIONS - CENTRAL OFFICE		DIVISION OF CORRECTIONS - CENTRAL OFFICE	
1409 GREENBRIER ST STE 300		STE 300	
		1409 GREENBRIER ST	
CHARLESTON	WV25311	CHARLESTON	WV 25311
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
4	Laundry products	2400.00000	OZ	\$0.49 per oz \$94.88 per case	\$1,176.00

Comm Code	Manufacturer	Specification	Model #
47131811	Ecolab Inc.	Solid Navisour 2/6 lb case	#16005

Extended Description :

3.1.1.4. Detergent Neutralizer: Solid laundry sour neutralizer- Ecolab 16005 Solid Navisour or equivalent

FISCAL DEPARTMENT		SHIP TO	
DIVISION OF CORRECTIONS - CENTRAL OFFICE		DIVISION OF CORRECTIONS - CENTRAL OFFICE	
1409 GREENBRIER ST STE 300		STE 300	
		1409 GREENBRIER ST	
CHARLESTON	WV25311	CHARLESTON	WV 25311
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
5	Laundry products	5100.00000	OZ	\$0.66 per oz \$63.69 per case	\$3,366.00

Comm Code	Manufacturer	Specification	Model #
47131811	Ecolab Inc.	Solid Oxy-Brite 2/3 lb case	#16016

Extended Description :

3.1.1.5. Detergent Color Safe Bleach: Solid laundry color safe bleach- Ecolab 16016 Solid Oxy-Brite or equivalent

		SHIP TO	
FISCAL DEPARTMENT DIVISION OF CORRECTIONS - CENTRAL OFFICE 1409 GREENBRIER ST STE 300		FISCAL DEPARTMENT DIVISION OF CORRECTIONS - CENTRAL OFFICE STE 300 1409 GREENBRIER ST	
CHARLESTON	WV25311	CHARLESTON	WV 25311
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
6	Laundry products	14460.00000	OZ	\$0.47 per oz \$90.87 per case	\$6,796.20

Comm Code	Manufacturer	Specification	Model #
47131811	Ecolab Inc.	Solid Navisoft 2/6 lb case	#16001

Extended Description :

3.1.1.6. Solid Laundry Softener: Ecolab 16001, Solid Navisoft or equivalent

		SHIP TO	
FISCAL DEPARTMENT DIVISION OF CORRECTIONS - CENTRAL OFFICE 1409 GREENBRIER ST STE 300		FISCAL DEPARTMENT DIVISION OF CORRECTIONS - CENTRAL OFFICE STE 300 1409 GREENBRIER ST	
CHARLESTON	WV25311	CHARLESTON	WV 25311
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
7	Laundry products	147200.00000	OZ	\$0.156 per oz \$99.94 per pail	\$22,963.20

Comm Code	Manufacturer	Specification	Model #
47131811	Ecolab Inc.	Tri Star L2000XP	#6100031

Extended Description :

3.1.1.7. Detergent: Liquid Laundry Detergent- Ecolab TriStar L2000XP or equivalent

		SHIP TO	
FISCAL DEPARTMENT DIVISION OF CORRECTIONS - CENTRAL OFFICE 1409 GREENBRIER ST STE 300		FISCAL DEPARTMENT DIVISION OF CORRECTIONS - CENTRAL OFFICE STE 300 1409 GREENBRIER ST	
CHARLESTON	WV25311	CHARLESTON	WV 25311
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
8	Laundry products	96000.00000	OZ	\$0.044 per oz \$312.67 per drum	\$4,224.00

Comm Code	Manufacturer	Specification	Model #
47131811	Ecolab Inc.	Eco-Star Destainer 55 gallon drum	#16144

Extended Description :

3.1.1.8. Destainer: Liquid chlorine bleach laundry destainer- Ecolab Eco- Star destainer 16144 or equivalent

		SHIP TO
FISCAL DEPARTMENT DIVISION OF CORRECTIONS - CENTRAL OFFICE 1409 GREENBRIER ST STE 300		FISCAL DEPARTMENT DIVISION OF CORRECTIONS - CENTRAL OFFICE STE 300 1409 GREENBRIER ST
CHARLESTON	WV25311	CHARLESTON WV 25311
US		US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
9	Laundry products	83200.00000	OZ	\$0.105 per oz \$66.89 per pail	\$8,736.00

Comm Code	Manufacturer	Specification	Model #
47131811	Ecolab Inc.	Tri Star So Fresh 5 gal pail	#14310

Extended Description :

3.1.1.9. Liquid laundry softener: Ecolab 14310 softener or equivalent

		SHIP TO
FISCAL DEPARTMENT DIVISION OF CORRECTIONS - CENTRAL OFFICE 1409 GREENBRIER ST STE 300		FISCAL DEPARTMENT DIVISION OF CORRECTIONS - CENTRAL OFFICE STE 300 1409 GREENBRIER ST
CHARLESTON	WV25311	CHARLESTON WV 25311
US		US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
10	Laundry products	6400.00000	OZ	\$0.147 per oz \$93.99 per case	\$940.80

Comm Code	Manufacturer	Specification	Model #
47131811	Ecolab Inc.	Tri Star Oxy-Brite 5 gal pail	#16527

Extended Description :

3.1.1.10. Detergent: Liquid Non Chlorine Bleach Alternative- Ecolab 16527, Tri-Star Oxy-Brite or equivalent

		SHIP TO	
FISCAL DEPARTMENT DIVISION OF CORRECTIONS - CENTRAL OFFICE 1409 GREENBRIER ST STE 300		FISCAL DEPARTMENT DIVISION OF CORRECTIONS - CENTRAL OFFICE STE 300 1409 GREENBRIER ST	
CHARLESTON	WV25311	CHARLESTON	WV 25311
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
11	Laundry products	1280.00000	OZ	\$0.284 per oz \$54.44 per case	\$363.52

Comm Code	Manufacturer	Specification	Model #
47131811	Ecolab Inc.	Clinging Lime A Way	#15210

Extended Description :

3.1.1.11. Delimer: Liquid Lime removal product Ecolab 18700 Ultra Limeaway or equivalent

		SHIP TO	
FISCAL DEPARTMENT DIVISION OF CORRECTIONS - CENTRAL OFFICE 1409 GREENBRIER ST STE 300		FISCAL DEPARTMENT DIVISION OF CORRECTIONS - CENTRAL OFFICE STE 300 1409 GREENBRIER ST	
CHARLESTON	WV25311	CHARLESTON	WV 25311
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
12	Laundry products	76800.00000	OZ	\$0.093 per oz \$177.70 per drum	\$7,142.40

Comm Code	Manufacturer	Specification	Model #
47131811	Ecolab Inc.	Eco Star Sour 15 gal drum	#16159

Extended Description :

3.1.1.12. Neutralizer: Liquid Laundry Neutralizing sour- Ecolab 16159 Eco-Star sour or equivalent

		SHIP TO	
FISCAL DEPARTMENT DIVISION OF CORRECTIONS - CENTRAL OFFICE 1409 GREENBRIER ST STE 300		FISCAL DEPARTMENT DIVISION OF CORRECTIONS - CENTRAL OFFICE STE 300 1409 GREENBRIER ST	
CHARLESTON	WV25311	CHARLESTON	WV 25311
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
13	Section 3.1.13.10 Service calls scheduled maintenance	30.00000	HOUR	\$0.00	\$0.00

Comm Code	Manufacturer	Specification	Model #
47131811		NO CHARGE WITH THE PURCHASE OF ECOLAB CHEMICALS	

Extended Description :

Section 3.1.13.10 Service calls scheduled maintenance

		SHIP TO
FISCAL DEPARTMENT DIVISION OF CORRECTIONS - CENTRAL OFFICE 1409 GREENBRIER ST STE 300		FISCAL DEPARTMENT DIVISION OF CORRECTIONS - CENTRAL OFFICE STE 300 1409 GREENBRIER ST
CHARLESTON	WV25311	CHARLESTON WV 25311
US		US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
14	Section 3.1.13.11 Service calls repair related maintenance	40.00000	HOUR	\$0.00	\$0.00

Comm Code	Manufacturer	Specification	Model #
47131811		NO CHARGE WITH THE PURCHASE OF ECOLAB CHEMICALS	

Extended Description :

Section 3.1.13.11 Service calls repair related maintenance

COR1500000037	Document Phase Final	Document Description Addendum No. 3- Laundry items for all WV DOC facilities	Page 8 of 8
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ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

SOLICITATION NUMBER: CRFQ – COR1500000037

Addendum Number: 3

The purpose of this addendum is to modify the solicitation identified as CRFQ COR1500000037 (“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:

1. The bid opening has moved from 04/16/2015 to 4/21/2015.
2. To correct sections in the specifications.
3. Provide Revised Exhibit C – Pricing Pages.

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
Addendum No. 3 - CRFQ – COR1500000037

Clarifications:

C1: To remove Section 3.1.2, as revised in Addendum No. 2 issued on 04/09/2015, in its entirety and replace with the following language –

3.1.2 Vendor shall provide the usage rate for their products and the cost per one hundred (100) lb. load of linen as listed in Exhibit C. Usage rate shall be based on eight (8) grains of hardness per gallon of water.

Revised pricing pages – See Exhibit C attached.

C2: To remove Section 3.1.3 in the specifications in its entirety.

C3: To remove Section 4.3, as revised in Addendum No.2 issued on 04/09/2015, in its entirety and replace with the following language –

4.3 Pricing Pages: Vendor shall complete the Pricing Pages by completing the information listed on the Pricing Page. Vendor shall complete the Pricing Pages in their entirety as failure to do so may result in Vendor's bids being disqualified.

The Pricing Pages contain a list of the Contract Items and estimated purchase volume. The estimated purchase volume for each item represents the approximate volume of anticipated purchases only. No future use of the Contract or any individual item is guaranteed or implied.

Vendor shall complete the Pricing Page information to include Item count per case, item price per case, item price per ounce, item usage ratio for 100 pound load of linen, treatment cost for 100 pound load of line, and Total Annual Cost. Failure to do so may result in Vendor's bids being disqualified. Contractor shall complete the requested information for each item listed on the pricing page and must be specific on all responses.

Vendor shall also complete Pricing Page information outlining the cost of service calls in the form of a flat rate call with mileage included in the rate.

Vendor shall type or electronically enter the information into the Pricing Pages to prevent errors in the evaluation.


Other Information:

1. The bid opening has moved from 04/16/2015 to 04/21/2015.

Revised by Addendum No. 3

Item #	Product	Count Per Case	Case Price	Price per Ounce	* Estimated Annual Quantity	** Usage Ratio for 100 lb load of linen (show ounces)	*** Treatment cost for 100 lb load of linen	Total Annual Cost (Multiply Est. Annual Quantity x Treatment Cost for 100 lb. load of linen)
3.1.1.1	Detergent: Liquid, Laundry Alkali Booster- Ecolab 16558 Tri-Star Break III or equal	1-5 gal	\$89.00	\$0.14 / oz	115,200 (ounces)	4 oz	\$0.556	\$64,051.20
3.1.1.2	Detergent: Solid Laundry Detergent- Ecolab 17905 Solid Surge Plus or equal	4-9 lb case	\$158.87	\$0.28 / oz	156,200 (ounces)	3 oz	\$0.840	\$131,208.00
3.1.1.3	Detergent: Solid Laundry Chlorine Bleach- Ecolab 13649 Solid Stain Away or equal	2-4 lb case	\$58.99	\$0.46 / oz	46,100 (ounces)	0.5 oz	\$0.230	\$10,603.00
3.1.1.4	Detergent Neutralizer: Solid Laundry Sour Neutralizer- Ecolab 16005 Solid Navisour or equal	2-6 lb case	\$94.88	\$0.49 / oz	2,400 (ounces)	0.5 oz	\$0.247	\$592.80
3.1.1.5	Detergent Color Safe Bleach: Solid laundry Color Safe Bleach- Ecolab 16016 Solid Oxy-Brite or equal	2-3 lb case	\$63.69	\$0.66 / oz	5,100 (ounces)	2 oz	\$1.330	\$6,783.00
3.1.1.6	Solid Laundry Softener: Ecolab 16001, Solid Navisoft or equal	2-6 lb case	\$90.87	\$0.47 / oz	14,460 (ounces)	0.35 oz	\$0.166	\$2,400.36
3.1.1.7	Detergent: Liquid Laundry Detergent- Ecolab TriStar L2000XP or equal	1-5 gal	\$99.94	\$0.156 / oz	147,200 (ounces)	5 oz	\$0.781	\$114,963.20
3.1.1.8	Destainer: Liquid chlorine bleach laundry destainer- Ecolab Eco- Star destainer 16144 or equal	1-55 gal	\$312.67	\$0.044 / oz	96,000 (ounces)	3 oz	\$0.133	\$12,768.00
3.1.1.9	Liquid Laundry softener: Ecolab 14310 Tri-Star So Fresh or equal	1-5 gal	\$66.89	\$0.10 / oz	83,200 (ounces)	1 oz	\$0.105	\$8,736.00
3.1.1.10	Detergent: Liquid Non Chlorine Bleach Alternative- Ecolab 16527 Tri-Star OxyBrite or equal	1-5 gal	\$93.99	\$0.147 / oz	6,400 (ounces)	2.5 oz	\$0.367	\$2,348.80
3.1.1.11	Delimer: Liquid Lime removal product - Ecolab 18700 Ultra Limeaway or equal	6/32 oz cs	\$54.44	\$0.284 / oz	1,280 (ounces)	RTU n/a	RTU n/a	\$363.52
3.1.1.12	Neutralizer: Liquid laundry Neutralizing Sour- Ecolab 16159 Eco-Star Sour or equal	1-15 gal	\$177.70	\$0.093 / oz	76,800 (ounces)	1 oz	\$0.093	\$7,142.40
3.1.13.10	Service Call- Scheduled Maintenance	No Charge with	the purchase	of Ecolab Chemicals	30 hours			\$0.00
3.1.13.11	Service Call- Repair Related	No Charge with	the purchase	of Ecolab Chemicals	40 hours			\$0.00
OVERALL TOTAL COST								\$361,960.28

Bidder/Vendor Information:

Name:	Ecolab Inc.
Address:	370 Wabasha St. North St. Paul, MN 55102
Phone No.:	(651) 250 - 2892
Fax No.:	(651) 306 - 5429
Email Address:	bruce.kottom@ecolab.com
Authorized Signature	

Failure to use this form may result in disqualification

- * Estimated Quantities for Bid Evaluation Purposes Only.
- ** Based on water hardness of eight (8) grains per gallon.
- *** Based on water hardness of eight (8) grains per gallon. Treatment cost for 10 gallons as per manufacturer's specifications

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: COR1500000037

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 checked="" type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input checked="" 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 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



Authorized Signature

04/16/2015

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.

SOLICITATION NUMBER: CRFQ – COR1500000037

Addendum Number: 2

The purpose of this addendum is to modify the solicitation identified as CRFQ COR1500000037 (“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:

1. The bid opening has moved from 04/14/2015 to 4/21/2015.
2. To correct sections in the specifications.
3. Provide Exhibit C – Pricing Pages.

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
Addendum No. 1 - CRFQ – COR1500000037

Clarifications:

C1: To remove Section 3.1.2 in the specifications in its entirety and replace with the following language –

3.1.2 Vendor shall provide the usage rate for their products and the cost per ten (10) gallons of water as listed in Exhibit C. Usage rate shall be based on eight (8) grains of hardness per gallon of water.

Exhibit C – pricing page – attached.

C2: To remove Section 4.2 in the specifications in its entirety and label the section as “Intentionally Left Blank”.

C3: To remove Section 4.3 in the specifications in its entirety and replace with the following language –

4.3 Pricing Pages: Vendor shall complete the Pricing Pages by completing the information listed on the Pricing Page. Vendor shall complete the Pricing Pages in their entirety as failure to do so may result in Vendor’s bids being disqualified.

The Pricing Pages contain a list of the Contract Items and estimated purchase volume. The estimated purchase volume for each item represents the approximate volume of anticipated purchases only. No future use of the Contract or any individual item is guaranteed or implied.

Vendor shall complete the Pricing Page information to include Item count per case, item price per case, item price per ounce, item usage ratio for 10 gallons of water, treatment cost for 10 gallons of water, and Total Annual Cost. Failure to do so may result in Vendor’s bids being disqualified. Contractor shall complete the requested information for each item listed on the pricing page and must be specific on all responses.

Vendor shall also complete Pricing Page information outlining the cost of service calls in the form of a flat rate call with mileage included in the rate.

Vendor shall type or electronically enter the information into the Pricing Pages to prevent errors in the evaluation.


C4: To add two (2) commodity lines for service calls to the CRFQ in the OASIS system.

Other Information:

1. The bid opening has moved from 04/14/2015 to 04/16/2015.

Item #	Product	Count Per Case	Case Price	Price per Ounce	* Estimated Annual Quantity	** Usage Ratio for 10 gallons of water (show ounces)	*** Treatment cost for 10 Gallons of Water	Total Annual Cost (Multiply Est. Annual Quantity x Treatment Cost for 10 gal of water)
3.1.1.1	Detergent: Liquid, Laundry Alkali Booster- Ecolab 16558 Tri-Star Break III or equal				115,200 (ounces)			
3.1.1.2	Detergent: Solid Laundry Detergent- Ecolab 17905 Solid Surge Plus or equal				156,200 (ounces)			
3.1.1.3	Detergent: Solid Laundry Chlorine Bleach- Ecolab 13649 Solid Stain Away or equal				46,100 (ounces)			
3.1.1.4	Detergent Neutralizer: Solid Laundry Sour Neutralizer- Ecolab 16005 Solid Navisour or equal				2,400 (ounces)			
3.1.1.5	Detergent Color Safe Bleach: Solid laundry Color Safe Bleach- Ecolab 16016 Solid Oxy-Brite or equal				5,100 (ounces)			
3.1.1.6	Solid Laundry Softener: Ecolab 16001, Solid Navisoft or equal				14,460 (ounces)			
Use cost information included on Addendum 3								
3.1.1.7	Detergent: Liquid Laundry Detergent- Ecolab TriStar 12000XP or equal				147,200 (ounces)			
3.1.1.8	Destainer: Liquid chlorine bleach laundry destainer- Ecolab Eco- Star destainer 16144 or equal				96,000 (ounces)			
3.1.1.9	Liquid Laundry softener: Ecolab 14310 Tri-Star So Fresh or equal				83,200 (ounces)			
3.1.1.10	Detergent: Liquid Non Chlorine Bleach Alternative- Ecolab 16527 Tri-Star OxyBrite or equal				6,400 (ounces)			
3.1.1.11	Delimer: Liquid Lime removal product - Ecolab 18700 Ultra Limeaway or equal				1,280 (ounces)			
3.1.1.12	Neutralizer: Liquid laundry Neutralizing Sour- Ecolab 16159 Eco-Star Sour or equal				76,800 (ounces)			
3.1.13.10	Service Call- Scheduled Maintenance				30 hours			
3.1.13.11	Service Call- Repair Related				40 hours			
OVERALL TOTAL COST								

Bidder/Vendor Information:

Name:	Ecolab Inc.
Address:	370 Wabasha St. North St. Paul, MN 55102
Phone No.:	(651) 250 - 2892
Fax No.:	(651) 306 - 5429
Email Address:	bruce.kottom@ecolab.com
Authorized Signature	

Failure to use this form may result in disqualification

- * Estimated Quantities for Bid Evaluation Purposes Only.
- ** Based on water hardness of eight (8) grains per gallon.
- *** Based on water hardness of eight (8) grains per gallon. Treatment cost for 10 gallons as per manufacturer's specifications

ADDENDUM ACKNOWLEDGEMENT FORM
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|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input checked="" type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input checked="" 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 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



Authorized Signature

04/16/2015

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.

SOLICITATION NUMBER: CRFQ – COR1500000037
Addendum Number: 1

The purpose of this addendum is to modify the solicitation identified as CRFQ COR1500000037 (“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:

1. The bid opening remains 04/14/2015 at 1:30 pm
2. To correct Section 3.1.15.3 of the specifications.

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
Addendum No. 1 - CRFQ – COR1500000037

Clarifications:

C1: To remove Section 3.1.15.3 in the specifications in its entirety and replace with the following language –

3.1.15.3 Information on the service representatives *should* be included with the bid response. Information *must* be provided prior to contract award. See Exhibit B.

Other Information:

- 1. The bid opening remains 04/14/2015 at 1:30 pm.**
- 2. No additional questions will be accepted on this CRFQ.**

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: COR1500000037

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 checked="" type="checkbox"/> Addendum No. 2	<input type="checkbox"/> Addendum No. 7
<input checked="" 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 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



Authorized Signature

04/16/2015

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.

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.

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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, 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 by the West Virginia Division of Labor under West Virginia Code §§ 21-5A-1 et seq. and available at <http://www.sos.wv.gov/administrative-law/wagerates/Pages/default.aspx>. Vendor shall be responsible for ensuring compliance with

prevailing wage requirements and determining when prevailing wage requirements are applicable. The required contract provisions contained in West Virginia Code of State Rules § 42-7-3 are specifically incorporated herein by reference.

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.

- 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; DATE: 04/16/2015

(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: April 2, 2015 by 4:00 pm

Submit Questions to: Tara Lyle
2019 Washington Street, East
Charleston, WV 25305
Fax: (304) 558-4115 (Vendors should not use this fax number for bid submission)
Email: Tara.L.Lyle@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 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).

Bid Opening Date and Time: April 14, 2015 at 1:30 pm
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.

REQUEST FOR QUOTATION
CRFQ COR1500000037 - Laundry Dispensing Equipment, Service and Supplies

SPECIFICATIONS

1. **PURPOSE AND SCOPE:** The West Virginia Purchasing Division is soliciting bids on behalf of the Division of Corrections to establish an open-end contract to supply laundry dispensing equipment, service, detergent, and other supplies as specified in this RFQ.
2. **DEFINITIONS:** The terms listed below shall have the meanings assigned to them below. Additional definitions can be found in section 2 of the General Terms and Conditions.
 - 2.1. **“Contract Item” or “Contract Items”** means the list of items identified in Section 3, Subsection 1 below.
 - 2.2. **“Pricing Pages”** means the schedule of prices, estimated order quantity, and totals and used to evaluate the RFQ.
 - 2.3. **“MSDS”** means material safety data sheet.
 - 2.4. **“Back-siphonage”** is an occurrence when higher pressure fluids, gasses or suspended solids move to an area of lower pressure fluids.
 - 2.5. **“RFQ”** means the official request for quotation published by the Purchasing Division and identified as COR1500000037.
 - 2.6. **“STATEWIDE”** means that the vendor must provide services and commodities to all WV Division of Corrections facilities in the state on the list provided.
3. **GENERAL REQUIREMENTS:**
 - 3.1. **Contract Items and Mandatory Requirements:** Vendor shall provide DOC Facility with the Contract Items listed below on an open-end and continuing basis. Contract Items must meet or exceed the mandatory requirements as shown below.
 - 3.1.1. **Item Specifications**
 - 3.1.1.1. **Detergent: Liquid, Laundry Alkali Booster - Ecolab 16558 Tri Star Break III or equivalent**
 - 3.1.1.1.1. Detergent shall be concentrated liquid alkaline builder with advanced water conditioning polymer technology
 - 3.1.1.1.2. Product shall inhibit scale formation
 - 3.1.1.1.3. The product shall control water hardness and yellowing

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- 3.1.1.1.4. This product shall be biodegradable
- 3.1.1.2. **Detergent: Solid Laundry Detergent- Ecolab 17905, Solid Surge Plus or equivalent**
 - 3.1.1.2.1. Product shall combine alkalinity, water conditioners, optical brighteners and a wetting agent.
 - 3.1.1.2.2. Product shall perform in water hardness of 8 grains per gallon and shall contain no phosphates.
 - 3.1.1.2.3. Product shall be soluble in hot water and partially soluble in cold water.
- 3.1.1.3. **Detergent Booster: Solid Laundry Chlorine Bleach- Ecolab 13649, Solid Stain-Away or equivalent**
 - 3.1.1.3.1. Product shall maintain its bleaching power throughout the entire package use once opened.
 - 3.1.1.3.2. Product shall have a shelf life of one year.
 - 3.1.1.3.3. Contains wetting agents and water conditioners.
- 3.1.1.4. **Detergent Neutralizer: Solid laundry sour neutralizer- Ecolab 16005 Solid Navisour or equivalent**
 - 3.1.1.4.1. Product shall be solid sour/neutralizer with static control agents
 - 3.1.1.4.2. Product shall ensures correct final rinse pH helping to prevent skin irritation
 - 3.1.1.4.3. Product shall protection against yellowing of linen in high iron water conditions
 - 3.1.1.4.4. Product shall use no softeners in order to maximize absorbency
- 3.1.1.5. **Detergent Color Safe Bleach: Solid laundry color safe bleach- Ecolab 16016 Solid Oxy-Brite or equivalent**
 - 3.1.1.5.1. Product shall provide color-safe laundry destaining in stable solid formula.

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- 3.1.1.5.2. The product shall provide alternative to chlorine bleach where destaining of fabrics is necessary, that are incompatible with chlorine products.
- 3.1.1.5.3. The product shall be effective in alkaline environments
- 3.1.1.6. Solid Laundry Softener: Ecolab 16001, Solid Navisoft or equivalent**
 - 3.1.1.6.1. Product shall provide highly concentrated mixture of fabric softener in a stable solid formula. .
 - 3.1.1.6.2. Product shall contain Souring agent that optimizes pH of finished linens
 - 3.1.1.6.3. Product shall contain detergent components that are biodegradable
 - 3.1.1.6.4. Product shall be phosphate free
- 3.1.1.7. Detergent: Liquid Laundry Detergent- Ecolab TriStar L2000XP or equivalent**
 - 3.1.1.7.1. Product shall be super concentrated liquid laundry detergent.
 - 3.1.1.7.2. Product shall be formulated with non-ionic surfactants and conditioners.
 - 3.1.1.7.3. Product shall be phosphate free
 - 3.1.1.7.4. Product shall be biodegradable
 - 3.1.1.7.5. Product shall be high performance, alkaline detergent with Nonionic surfactants and conditioners.
 - 3.1.1.7.6. Product shall be formulated to perform in a wide range of wash temperatures as well as hard water.
- 3.1.1.8. Destainer: Liquid chlorine bleach laundry destainer- Ecolab Eco-Star destainer 16144 or equivalent**
 - 3.1.1.8.1. Product shall be Phosphate free
 - 3.1.1.8.2. Product shall be a Concentrated chlorinated bleach
 - 3.1.1.8.3. Product shall restore natural whiteness and remove stains

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3.1.1.8.4. Product shall be formulated to perform in a wide range of wash temperatures as well as hard water.

3.1.1.9. Liquid laundry softener: Ecolab 14310 softener or equivalent

3.1.1.9.1. Product shall leave linens soft and static free

3.1.1.9.2. Product shall contain detergent components that are biodegradable

3.1.1.9.3. Product shall be phosphate free

3.1.1.9.4. Product shall be formulated to perform in a wide range of wash temperatures as well as hard water.

3.1.1.10. Detergent: Liquid Non Chlorine Bleach Alternative- Ecolab 16527, Tri-Star Oxy-Brite or equivalent

3.1.1.10.1. Product shall be phosphate-free

3.1.1.10.2. Product shall be biodegradable

3.1.1.10.3. Product shall efficiently removes stains on all washable fabrics

3.1.1.10.4. Product shall be liquid oxygen-based bleach

3.1.1.11. Delimer: Liquid Lime removal product – Ecolab 18700 Ultra Limeaway or equivalent

3.1.1.11.1 Product shall versatile for multi-purpose lime scale removal

3.1.1.12. Neutralizer: Liquid Laundry Neutralizing sour- Ecolab 16159 Eco-Star sour or equivalent

3.1.1.12.1. Product shall be able to prevent staining and graying

3.1.1.12.2. Product shall be Phosphate free

3.1.1.12.3. Product shall be Concentrated laundry sour and iron controlling agent formulated to work effectively in a wide range of washroom conditions

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- 3.1.1.12.4.** Product shall adjust the pH of the linens to minimize the potential for skin irritation by dissolving residual water hardness
- 3.1.1.12.5.** Product shall be formulated to perform in a wide range of wash temperatures as well as hard water.
- 3.1.2.** Vendor shall provide the usage rate for their products and the cost per ten (10) gallons of water as listed in Appendix B. Usage rate shall be based on eight (8) grains of hardness per gallon of water.
- 3.1.3.** Vendor shall provide the usage rate for their products and the cost per ten (10) gallons of water as listed in Appendix B. Usage rate shall be based on eight (8) grains of hardness per gallon of water.
- 3.1.4.** Vendor's products and services will produce a highly effective cleaning of linen types at the product's usage rates quoted in the bid documents.
- 3.1.5.** Only commercial products that have been used for a minimum of five (5) years shall be considered.
- 3.1.6.** Vendor shall provide the following items with their bid response:
- 3.1.6.1.** Product information which describe the product usage.
- 3.1.6.2.** Manufacturer's recommended product usage rates for medium soil conditions.
- 3.1.6.3.** Material Safety Data Sheets (MSDS).
- 3.1.7. Contractor Mandatory Requirements**
- 3.1.7.1.** Contractor shall have a minimum of five (5) years' experience in the production of commercial laundry materials for use in health care facilities.
- 3.1.7.2.** Contractor should employ a nationally certified laundry technician as per the National Association of Institutional Linen Managers to perform the technical services of the contract.
- 3.1.7.3.** Contractor must have successful experience in reducing energy consumption with the usage of low temperature detergents.
- 3.1.7.4.** Contractor shall provide laboratory services for the testing of linens.

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3.1.7.5. Contractor shall provide a detailed description of the inspection services performed by the laundry technician.

3.1.7.7. Contractor shall provide a detailed description of the inspection services performed by the laundry technician.

3.1.8. Laundry Technician Requirements

The nationally certified laundry technician is required to provide the following services:

3.1.8.1. Contractor is required to identify the nationally certified laundry technician(s) on the attached information sheet. (Exhibit B). Information should be provided with the bid, however, this information must be received prior to the contract award.

3.1.8.2. Laundry technician will (a) instruct laundry personnel in the correct application of laundry materials; (b) develop wash formula to achieve cleanliness of linen at the least material cost; (c) demonstrate energy cost savings of low temperature laundry products; (d) conduct the regular inspections of the washrooms; (e) submit written reports to the facility after each inspection.

3.1.8.3. At least once per month, the laundry technician shall inspect each participating facility. During the inspections, the laundry technician shall test the wash formula concentrations (titration test and ph levels), water temperature and levels, identify energy savings if available, and report and equipment deficiencies to the laundry supervisor.

3.1.8.4. Laundry technician shall survey the facilities laundry materials requirements and develop wash formulas capable of providing high levels of cleanliness. Formula shall identify the amount of product and the parts per million of the product in the wash wheel, water level and temperature, and length of the wash cycles in minutes.

3.1.8.5. In addition, when requested and within twenty-four (24) hours of such request, the technician shall make service calls to handle problems requiring attention and correction.

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3.1.9. Special Conditions

For the safety of the technician and security of the institution, the following measures are required:

- 3.1.9.1.** The technician shall be required to obtain a proper identification card before entering the work area. The facility shall furnish the ID.
- 3.1.9.2.** All persons, vehicles, food containers, tool boxes, etc. are subject to search before entering the premises.
- 3.1.9.3.** Technicians or other employees of vendor shall not be permitted to have any dealings or agreements of any kind with inmate personnel.
- 3.1.9.4.** Certain items, which will be detailed by each facility, i.e., alcoholic beverages, firearms, certain knives, etc. are strictly prohibited. If any of these items are found in the possession of any technician, he/she will be immediately ejected from the premises, or held for arrest, and any such contraband items seized.
- 3.1.9.5.** Extraordinary precautions must be observed to secure all tools and prevent them from falling into the hands of inmate personnel.
- 3.1.9.6.** Technicians shall be restricted to only those areas where it is necessary for the performance of the work and are not permitted in any other locations without prior consent from the warden or his representative.

Material delivery system, of solid materials and compatible delivery, which eliminates or greatly minimizes inmate contact and access to laundry cleaning materials, is desired.

3.1.10. Packaging

- 3.1.10.1.** The laundry detergent shall be packaged in inventory control cartons protected by means of aluminum foil or equal overwrap designed to prevent excessive loss of available chlorine. These cartons shall be package in a case with the maximum total weight of weight of sixty five (65) pounds.
- 3.1.10.2.** All materials shall be packaged in suitable storage containers to protect against high humidity.
- 3.1.10.3.** All delivered materials must be labeled clearly. Powdered materials shall be a homogenous solution and shall not gel or settle out during storage.

3.1.11. Dispensing Equipment

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- 3.1.11.1.** The Vendor shall furnish, install and maintain on a loan basis, statewide, at no cost to the DOC Facility, proper dispensing equipment as follows:
- 3.1.11.2.** The Vendor shall install and service all electronic dispensers requested by the DOC facility.
- 3.1.11.3.** The DOC facilities shall provide suitable water and electrical connections on/or adjacent to the dishwashing machines.
- 3.1.11.4.** At DOC facilities where rinse additives are used, the Vendor shall equip the laundry machines with a rinse injector.
- 3.1.11.5.** All dispensers and injectors furnished by the Vendor shall be first line models such as are in use by other accounts serviced by the Vendor and installation shall be made in accordance with accepted engineering practices.
- 3.1.11.6.** Vendor shall ensure that their installation does not create a cross connection which would allow back-siphonage into the water supply system.
- 3.1.11.7.** The vendor shall maintain both the liquid and solid dispensing equipment. Upon completion of the contract, the dispensing equipment shall remain on the facility site until the succeeding vendor assumes the supply for the facility.
- 3.1.11.8.** Should the products fail to achieve a consistently high performance level at the usage cost as bid, the contractor shall remove all unused material from the state facility and refund the original cost of material to the facility.
- 3.1.11.9.** Must have an automatic "out of product" alarm, alerting operators to replace materials when needed.

3.1.12. Installation of Dispensing Equipment

- 3.1.12.1.** Immediately upon award of the contract, the Vendor shall contact the DOC facilities, statewide, to schedule installation of the dispensing equipment.
- 3.1.12.2.** All equipment furnished by the prior contractor shall remain in service and be properly maintained by the prior Vendor until all the prior Vendor's compounds remaining in the DOC facilities stocks are

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consumed, or a period of thirty (30) days, whichever occurs first. The previous Vendor will accept return of merchandise and issue a credit to the facility for stock that would not be compatible with a change in dispensing equipment.

3.1.12.3. It shall be the responsibility of the new Vendor to remove, pack and have available for pick-up all dispensing equipment of the previous Vendor. The new Vendor shall plug all holes not to be used in installing their own equipment.

3.1.12.3.1. The dispensing equipment and installation shall be of such design that the units may be removed at the termination of the contract period without interruption of the service or without additional cost for parts or labor. Successful vendor of this contract shall at the end of the contract period leave their dispensing equipment at each site to allow the new Vendor to install their brand of dispensing equipment. Vendor shall allow a minimum of thirty (30) days for such transition period. At the end of the thirty (30) day period, the Vendor will accept return of merchandise and issue a credit to the facility for stock that would not be compatible with a change in dispensing equipment.

3.1.12.4. The dispensers and injectors shall be of first quality, maintained in good operating condition, and shall be properly installed.

3.1.12.5. A minimum of three products must be dispensed directly from their shipping cartons.

3.1.12.6. One dispenser must serve a minimum of two machines with a single hose to each machine, unless the facility otherwise directs.

3.1.12.7. System must be capable of producing a productivity report and current dispensing data.

3.1.12.8. Dispensing cabinet totally enclosed with a tamper resistant lock.

3.1.12.9. System must operate on 120 V/AC and an approved vacuum breaker.

3.1.12.10. Cost to install dispensing equipment shall be factored into the unit pricing and included on the Pricing Page.

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3.1.13. Scheduled Services

- 3.1.13.1.** The Vendor shall provide regular inspections of equipment at each DOC facility statewide. The schedule must be mutually agreed upon by the Vendor and each DOC facility. At a minimum, the vendor shall:
- 3.1.13.2.** Inspect and properly maintain all dispensing equipment whether supplied by the contractor or owned by the DOC Facility.
- 3.1.13.3.** Check all dishwashing machines in operation at the DOC facility, including the functioning of mechanical parts, gauges, valves, and cleanliness of wash arms and rinse nozzles, and make such adjustments as are necessary. Thoroughly clean interior of all machines, dispensers, and mechanical parts and de-liming when necessary. The facility shall provide de-liming solvent.
- 3.1.13.4.** Check solutions for optimum concentration and temperature. Each inspection report will show the water hardness and the percentage of concentration (PPM) of detergent and final rinse additives being dispensed into the dishwashing machine.
- 3.1.13.5.** Check the DOC facilities Sanitizing Titration Test Kit for completeness as per Sections 4-302.14 and 4-501.116 of the Federal Food Code incorporated by reference in West Virginia legislative rule 64CSR17, Food Establishments.
- 3.1.13.6.** Instruct the institutional personnel in the proper use of the Sanitizing Titration Test Kit.
- 3.1.13.7.** Instruct institutional personnel in the proper use of laundry machines and dispensing equipment, as well as the materials used therein.
- 3.1.13.8.** Submit to the business manager of the institution of a written service report at the time of each call, listing the service performed and any recommendation for corrective action to be taken by the institution.

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3.1.13.9. When requested, and within twenty-four (24) hours of such request, the Vendor shall make service calls to handle problems requiring attention or correction

3.1.13.10. Vendor shall provide detailed costs incurred for scheduled maintenance and inspection of equipment on Pricing Page. Vendor shall also complete Pricing Page information outlining the cost of service calls in the form of a flat rate call with mileage included in the rate.

3.1.13.11. Vendor shall provide a cost proposal of service calls related to the repairs of Vendor's equipment on Pricing Page.

Vendor shall also complete Pricing Page information outlining the cost of repair related service calls in the form of a flat rate call with mileage included in the rate.

3.1.14. Toxicity

3.1.14.1. The ingredients used in formulating the compounds shall not be contaminated with toxic amounts of poisonous compounds such as those of arsenic, lead, mercury, antimony, or other compounds having deleterious effects. The compounds provided shall meet all safety and health requirements of all applicable government agencies.

3.1.15. Service Representatives

3.1.15.1. Vendor service capability will be considered in the award of this contract. Each service representative shall have a minimum of one (1) year of experience in the installation, service, and maintenance of this type of equipment.

3.1.15.2. The successful Vendor shall have two a minimum of (2) service representatives working with the Division of Corrections that can service facilities statewide.

3.1.15.3. Information on the service representatives shall be included with the bid response.

3.1.16. The name and location of each Division of Corrections facility is listed in Exhibit A. The Vendor shall provide the contract items, at contract price, to any additional DOC facility(s) that may open, or require equipment and supplies during the course of the contract.

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4. CONTRACT AWARD:

- 4.1. Contract Award:** The Contract is intended to provide Agencies with a purchase price on all Contract Items. The Contract shall be awarded to the ONE Vendor that provides the Contract Items meeting the required specifications for the lowest overall total cost as shown on the Pricing Pages.
- 4.2. Evaluation of Bids:** Contractor should provide a manufacturer's recommended usage rate/cost per 100 lbs. of medium to heavy soiled linen. Bids may not be evaluated without the manufacturer's publication verifying the usage rate. Contractor shall complete the requested information for each item listed on the pricing page and must be specific on all responses.
- 4.3. Pricing Pages:** Vendor shall complete the Pricing Pages by completing the information listed on the Pricing Page. Vendor shall complete the Pricing Pages in their entirety as failure to do so may result in Vendor's bids being disqualified.

The Pricing Pages contain a list of the Contract Items and estimated purchase volume. The estimated purchase volume for each item represents the approximate volume of anticipated purchases only. No future use of the Contract or any individual item is guaranteed or implied.

Vendor shall complete the Pricing Page information to include Item count per case, item price per case, item price per ounce, item usage ratio for 10 gallons of water, treatment cost for 10 gallons of water, and Total Annual Cost. Failure to do so may result in Vendor's bids being disqualified.

Vendor shall also complete Pricing Page information outlining the cost of service calls in the form of a flat rate call with mileage included in the rate.

Vendor shall type or electronically enter the information into the Pricing Pages to prevent errors in the evaluation.

5. ORDERING AND PAYMENT:

- 5.1. Ordering:** Vendor shall accept orders by regular mail, facsimile, e-mail, or any other written forms of communication. Vendor may, but is not required to, accept on-line orders through a secure internet ordering portal/website. If Vendor has the ability to accept on-line orders, it shall include in its response a brief description of how Agencies may utilize the on-line ordering system. Any on-line ordering system must have the capability to restrict prices and available items to conform to the Catalog originally submitted with this RFQ. Vendor shall ensure that its on-line ordering system is properly secured prior to processing DOC Facility orders on-line.

REQUEST FOR QUOTATION
CRFQ COR1500000037 - Laundry Dispensing Equipment, Service and Supplies

5.2. Payment: Vendor shall accept payment in accordance with the payment procedures of the State of West Virginia.

6. DELIVERY AND RETURN:

6.1. Delivery Time: Vendor shall deliver standard orders within fourteen (14) working days after orders are received. Vendor shall ship all orders in accordance with the above schedule and shall not hold orders until a minimum delivery quantity is met. Deliveries longer than fourteen (14) days shall be considered unsatisfactory. Bids with specify a shipping date of over fourteen (14) days after receipt of order may be disqualified.

6.2. Late Delivery: The DOC Facility placing the order under this Contract must be notified in writing if orders will be delayed for any reason. Any delay in delivery that could cause harm to an DOC Facility will be grounds for cancellation of the delayed order, and/or obtaining the items ordered from a third party.

Any DOC Facility seeking to obtain items from a third party under this provision must first obtain approval of the Purchasing Division.

6.3. Delivery Payment/Risk of Loss: Standard order delivery shall be F.O.B. destination to the DOC Facility's location. Vendor shall include the cost of standard order delivery charges in its bid pricing/discount and is not permitted to charge the DOC Facility separately for such delivery. The DOC Facility will pay delivery charges on all emergency orders provided that Vendor invoices those delivery costs as a separate charge with the original freight bill attached to the invoice.

6.4. Return of Unacceptable Items: If the DOC Facility deems the Contract Items to be unacceptable, the Contract Items shall be returned to Vendor at Vendor's expense and with no restocking charge. Vendor shall either make arrangements for the return within five (5) days of being notified that items are unacceptable, or permit the DOC Facility to arrange for the return and reimburse DOC Facility for delivery expenses. If the original packaging cannot be utilized for the return, Vendor will supply the DOC Facility with appropriate return packaging upon request. All returns of unacceptable items shall be F.O.B. the DOC Facility's location. The returned product shall either be replaced, or the DOC Facility shall receive a full credit or refund for the purchase price, at the DOC Facility's discretion.

REQUEST FOR QUOTATION
CRFQ COR1500000037 - Laundry Dispensing Equipment, Service and Supplies

6.5. Return Due to DOC Facility Error: Items ordered in error by the DOC Facility will be returned for credit within 30 days of receipt, F.O.B. Vendor's location. Vendor shall not charge a restocking fee if returned products are in a resalable condition. Items shall be deemed to be in a resalable condition if they are unused and in the original packaging. Any restocking fee for items not in a resalable condition shall be the lower of the Vendor's customary restocking fee or 5% of the total invoiced value of the returned items.


7. MISCELLANEOUS:

7.1. No Substitutions: Vendor shall supply only Contract Items submitted in response to the RFQ unless a contract modification is approved in accordance with the provisions contained in this Contract.

7.2. Vendor Supply: Vendor must carry sufficient inventory of the Contract Items being offered to fulfill its obligations under this Contract. By signing its bid, Vendor certifies that it can supply the Contract Items contained in its bid response.

7.3. Reports: Vendor shall provide quarterly reports and annual summaries to the DOC Facility showing the DOC Facility's items purchased, quantities of items purchased, and total dollar value of the items purchased. Vendor shall also provide reports, upon request, showing the items purchased during the term of this Contract, the quantity purchased for each of those items, and the total value of purchases for each of those items. Failure to supply such reports may be grounds for cancellation of this Contract.

7.4. Contract Manager: During its performance of this Contract, Vendor must designate and maintain a primary contract manager responsible for overseeing Vendor's responsibilities under this Contract. The Contract manager must be available during normal business hours to address any customer service or other issues related to this Contract. Vendor shall list its Contract manager and his or her contact information below.

Contract Manager: Bruce Kottom 
Telephone Number: (651) 250 - 2892
Fax Number: (651) 306 - 5429
Email Address: bruce.kottom@ecolab.com


CRFQ COR150000037 - Laundry Dispensing Equipment, Service, and Supplies

Exhibit A - Facility Locations

Facility	Address	
Anthony Correctional Center	313 Anthony Center Drive White Sulphur Springs, WV 24986	Ecolab Sales Rep Chad George
Beckley Correctional Center	111 S Eisenhower Drive Beckley, WV 25801	Mike Whiter
Charleston Work Release Center	607 Brooks Street Charleston, WV 25301	Larry Sarver
Denmar Correctional Center	4319 Denmar Road Hillsboro, WV 24946	Chad George
Huntington Work Release Center	1236 Fifth Avenue Huntington, WV 25701	David Karshner
Huttonsville Correctional Center.	Route US 219/250 South Huttonsville, WV 26273	Chad George
Lakin Correctional Center	11264 Ohio River Rd West Columbia, WV 25287	Homer Randell
Martinsburg Correctional Center	38 Grapevine Rd Martinsburg, WV 25401	Rob Basye
Mount Olive Correctional Complex	1 Mountainside Way Mt Olive, WV 25185	Larry Sarver
Northern Correctional Facility	112 Northern Regional Correctional Drive Moundsville WV 26041	Michael Mahan
Ohio County Correctional Complex	1501 Eoff Street Wheeling, WV 26003	Michael Mahan
Parkersburg Correctional Center	225 Holiday Hills Dr Parkersburg, WV 26104	Greg Oxley
Pruntytown Correctional Center	PCC 2006 Trap Springs Road Grafton, WV 26354	Ron Welsh
St Marys Correctional Center	2880 N Pleasants Highway St Marys, WV 26170	Greg Oxley
Salem Correctional Center	7 Industrial Boulevard Industrial, WV 26426	Ron Welsh

CRFQ COR150000037 - Laundry Dispensing Equipment, Service and Supplies- Nationally Certified Laundry Technicians

Exhibit B

	Name	Address	Telephone
1	Chad George	528 Greenbrier Avenue White Sulphur Springs, WV 24986	(304) 667 - 6981
2	Michael White	316 Northview Road Princeton, WX 24740	(304) 921 - 0886
3	Larry Sarver	541 McClung Road Hurricane, WV 25525	(304) 419 - 0978
4	David Karshner	427 Junior Road Irtonton, OH 45638	(407) 908 - 2194
5	Homer Randsdell	19 Deer Run Road Barboursville, WV 25504	(304) 208 - 7198
6	Rob Basye	106 Towerview Drive Martinsburg, WV 25404	(540) 532 - 7575
7	Michael Mahan	120 Jamison Lane Wellsburg, WV 26070	(304) 281 - 9907
8	Greg Oxley	824 Lakeview Drive, #408B Parkersburg, WV 26104	(740) 972 - 4400
9	Ron Welsh	75 Gable Place Bridgeport, WV 26330	(304) 695 - 0066
10			
	Bidder/Vendor Information:	Ecolab Inc.	
	Name:	Bruce Kottom	
	Address:	370 Wabasha St. North St. Paul, MN 55102	
	Phone No.:	(651) 250 - 2892	
	Fax No.:	(651) 306 - 5429	
	Email Address:	bruce.kottom@ecolab.com	
	Authorized Signature		



GLOBAL SUPPLY CHAIN DIRECTORY



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

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

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

West Virginia

Martinsburg Plant (E)

942 Baker Road
Martinsburg, WV 25405
Plant Manager: Jon Gavlinski

Phone: 304-260-3500

Cell: 304-433-6513
jonathan.gavlinski@ecolab.com

Wyoming

Evansville Plant (N)

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

Phone: 307-235-6459

Phone: ext . 233
mboring@nalco.com
Cell: 307-267-8250
titucker@nalco.com

Plant Manager: Tom Tucker



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 Equipment |
| ■ Timer | | ■ Water | |

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.





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





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.



Navigator Solids™ Dispensing System

Our Solid laundry system delivers clean, white, soft washables in every load. The ultimate in flexibility provides superior performance in all conditions including:

- Central Dosing- One Dispenser for every two Washer Extractors (WEs)
- Closed loop system
- Out of Product Alarms
- Calibrated and consistent dispensing
- Load Tracking
- Water and Energy Calculator
- Designed for a range of chemistry from Heavy soils (alkali builders) to High pH levels (sours)
- Sustainable chemistry helps reduce your environmental footprint
- Hard water (water conditions)
- Easily integrated into all existing commercial WEs
- Able to dispense to machines over 100 feet away
- Locking cabinets available to secure chemistry and dispensers

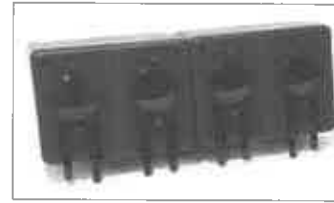


Each install requires an action plan. Ecolab recognizes that each facility is different and we partner with each unit to devise a change out plan. All installation work is done at no charge. Routine Preventive Service is done on a monthly basis and includes reporting any WE errors diagnosed.

TRI-STAR™ Dispensing System

Our liquid laundry system delivers clean, white, soft washables in every load. The ultimate in flexibility provides superior performance in all conditions including:

- Closed loop system
- Calibrated and consistent dispensing
- Load Tracking
- Water and Energy Calculator
- Designed for a range of chemistry from Heavy soils (alkali builders) to High pH levels (sours)
- Sustainable chemistry helps reduce your environmental footprint
- Hard water (water conditions)
- Easily integrated into all existing commercial Washer Extractors (WEs)
- Able to dispense to machines over 100 feet away
- Locking cabinets available to secure chemistry and dispensers



Each install requires an action plan. Ecolab recognizes that each facility is different and we partner with each unit to devise a change out plan. All installation work is done at no charge. Routine Preventive Service is done on a monthly basis and includes reporting any WE errors diagnosed.

Tri-Star Break III Extra

CLASSIFICATION

Concentrated Liquid Laundry Alkali

PRODUCT DESCRIPTION

Concentrated non-phosphate alkaline builder with water conditioners. Inhibits scale formation and controls water hardness and yellowing from iron. Can be used as the "break" in a 3 product detergent system or as an alkali booster to a built detergent.

USE

FOR INDUSTRIAL USE ONLY

DIRECTIONS FOR USE

Use only with Ecolab Laundry Dispensing Systems.

The dispensing rate is set on-site by an Ecolab Laundry Specialist and may vary depending on soil type and amount, fabric type, water conditions, etc. No adjustment of the dispensing rate can be made except by an Ecolab Laundry Specialist.

Consult your Ecolab Specialist or call 1-800-35 CLEAN (352-5326) for specific use directions, service, or additional information.

Usage Temperature Range: 80 – 170°F

Usage

Light: 2.5 fl oz / CWT (5 – 9 drops)

Medium: 4.5 fl oz / CWT (10 – 17 drops)

Heavy: 8+ fl oz / CWT (17+ drops)

Government: 4 oz / CWT (9 - 16 drops)

Freeze/Thaw Restrictions: Yes

PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Color	White
Odor	Faint Odor
pH	13.5 [Conc. (% w/w): 100%]

Ingredients:

Sodium Hydroxide	1310-73-2
Sodium Polyacrylate	9003-04-7
Water	7732-18-5

% P Formula ingredients contain no phosphorus

PACKAGING / PRODUCT NUMBERS

Size Available	Product Number
5 U.S. gal/18.9 L	16558

Solid Surge Plus

CLASSIFICATION

Super Concentrated Solid Laundry Detergent

PRODUCT DESCRIPTION

Ideal for hospitality or healthcare linens, this premium one-shot non-phosphate formula detergent combines alkalinity, water conditioners, a wetting agent, and a new fabric brightening system. This product is Green Seal™ (GS-51) certified!

USE

FOR INDUSTRIAL USE ONLY - NOT FOR HOUSEHOLD USE

DO NOT MIX WITH ANYTHING BUT WATER.

For Laundry Use Only

Store in a dry place

DIRECTIONS FOR USE

For use with an approved Ecolab Solid Laundry Dispenser – see your local Ecolab Sales Representative for assistance.

1. Remove product container cap. Use container handle. Place container open end down in the Ecolab Solid Laundry Dispenser.
2. To remove used container, carefully lift from dispenser. Turn container upright.
3. Use cap from new container to close the used container. Do not reuse empty container.
4. If product contacts hands, wash off immediately.

Use product for intended purpose or dispose in accordance with regulations. Rinse empty container with water 3 times and recycle empty container.

Usage

Usage Temperature Range: 100 – 180°F

Dose applicable in hard or softened water. Product to be used with multi-component solid program line. Washing at low temperatures is acceptable but washing at a temperature of 130°F-150°F is recommended for optimal performance. For max efficiency of Laundry Program always wash full loads.

Light: 100 grams / CWT (5 - 9 drops)

Medium: 150 grams / CWT (9 – 12 drops)

Heavy: 200 grams / CWT (12 - 17 drops)

Government: 85 grams / CWT (3 - 8 drops)

Freeze/Thaw Restrictions: No

Product AS SOLD

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

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

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

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

Product AT USE DILUTION

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

Hands: Use chemical-resistant, impervious gloves.

Skin: Use synthetic apron, other protective equipment as necessary to prevent skin contact.

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

Improper use or dilution may increase the risk of health effects and cause surface damage or staining

Consult your Ecolab Specialist or call 1-800-35 CLEAN (352-5326) for specific use directions, service, or additional information.

PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid [Cast Solid]
Color Yellow
Odor Fragrance-like
pH 11.8 to 13 [Conc. (% w/w): 1%]

Ingredients:

Sodium Hydroxide	1310-73-2
Aqua	7732-18-5
C ₁₂ -C ₁₆ Pareth-5	68551-12-2
Sodium Polyacrylate	9003-04-7
Sodium Carbonate	497-19-8
Monosodium Citrate	8996-35-5
Optical Brightener	
Silicone Dimethcone	
No Fragrance Added	

% P Formula ingredients contain no Phosphorus

PACKAGING / PRODUCT NUMBERS

Size Available	Product Number
4 - 9 lb / (4 kg)	17905

Solid Stain-A-Way®

CLASSIFICATION

Super Concentrated Chlorine Bleach Laundry Destainer

PRODUCT DESCRIPTION

Solid destainer for on-premise laundry. Unlike liquid destainers which can lose their strength within days, Solid Stain-A-Way maintains its bleaching power throughout the whole capsule. With solids, there's no more bleached out carpeting or stained floors from spilled liquid.

USE

**FOR FOOD PLANT AND INDUSTRIAL USE ONLY • KEEP CONTAINER TIGHTLY CLOSED
• DO NOT MIX WITH ANYTHING BUT WATER • DO NOT MIX WITH NEUTRALIZERS OR
ACID BASED PRODUCTS AS HAZARDOUS VAPORS MAY RESULT • STORE IN A DRY PLACE
DIRECTIONS FOR USE**

Use only in an Ecolab detergent dispenser. DO NOT use on wool, silk or delicate fabrics.

- Carefully lift empty container from dispenser and turn upright to avoid spills.
- Remove cap from full container and use it to seal the empty container. Dispose of empty container immediately. Do not reuse.
- If product from empty container contacts your skin or clothing, wash off immediately.
- Use handle to place full container in the dispenser with the open end down.
- Food contact surfaces must be rinsed with potable water before reuse.

Consult your Ecolab Specialist or call 1-800-35 CLEAN (352-5326) for specific use directions, service, or additional information.

Usage Temperature Range: 120 – 160°F

Usage

Light: 18 grams / CWT (50 ppm)

Medium: 26 grams / CWT (75 ppm)

Heavy: 36 grams / CWT (100 ppm)

Government: 14.5 grams / CWT (30 ppm)

Freeze/Thaw Restrictions: No

PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid [Cast solid]
Color	White
Odor	Chlorine
pH	6.25 [Conc. (% w/w): 1%]

Ingredients:

Sodium Dichloroisocyanurate Dihydrate

51580-86-0

% P Formula ingredients contain no Phosphorus

PACKAGING / PRODUCT NUMBERS

Size Available	Product Number
2 - 4 lb / (1.8 kg)	13649

Solid Navisour

CLASSIFICATION

Concentrated Laundry Sour

PRODUCT DESCRIPTION

This problem solving laundry sour contains a unique blend of powerful ingredients that provide maximum protection against yellowing of linen in high iron water conditions. Solid Navisour contains limited fabric softening capabilities for lint and static control. It's ideal for use on specialty healthcare fabrics that require proper conditioning for skin compatibility, but specify that no softeners be used in order to maximize absorbency.

USE

**FOR INDUSTRIAL USE ONLY - NOT FOR HOUSEHOLD USE.
DO NOT MIX WITH ANYTHING BUT WATER.**

DIRECTIONS FOR USE

For Use Only in Ecolab Dispensers. DO NOT use in laundry machines with porcelain-lined or soft metal tubs. NOT for use in home-style machines.

- Carefully lift empty container from dispenser and turn upright to avoid spills.
- Remove cap from full container and use it to seal the empty container. Dispose of empty container immediately. Do not reuse.
- If product from empty container contacts your skin or clothing, wash off immediately.
- Use handle to place full container in the dispenser with the open end down.

Consult your Ecolab Specialist or call 1-800-35 CLEAN (352-5326) for specific use directions, service, or additional information.

Usage Temperature Range: 90 – 110°F

Usage

Normal: 18 grams / CWT

Government: 14.5 grams / CWT

Freeze/Thaw Restrictions: No

PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid [Cast Solid]
Color	Tan
Odor	Fragrance-like
pH	2.5 [Conc. (% w/w): 1%]

Ingredients:

Sodium Bisulfate	7681-38-1
Dicarboxylic Acid Mixture	68603-87-2
Methoxypolyethylene Glycol	9004-74-4
Polyethylene Glycol	25322-68-3
Tallow Dimethyl Ammonium Methyl Sulfate	68410-69-5

% P Formula ingredients contain no Phosphorus

PACKAGING / PRODUCT NUMBERS

Size Available	Product Number
2 - 6 lb / (2.7 kg)	16005

Solid Oxy-Brite

CLASSIFICATION

Super Concentrated Solid Laundry Destainer

PRODUCT DESCRIPTION

Provides color-safe laundry destaining in a safe and stable solid formula. Ideal for shirt laundries and other applications where destaining of fabrics that are incompatible with chlorine is mandatory. Especially effective in alkaline environments, Solid Oxy-Brite encourages combining the detergent and bleach baths to increase laundry productivity and reduce labor, energy and water costs. This product is Green Seal™ (GS-51) certified¹.

USE

FOR INDUSTRIAL USE ONLY - NOT FOR HOUSEHOLD USE

DO NOT MIX WITH ANYTHING BUT WATER.

For Laundry Use Only

Store in a dry place

DIRECTIONS FOR USE

For use with an approved Ecolab Solid Laundry Dispenser – see your local Ecolab Sales Representative for assistance.

1. Remove product container cap. Use container handle. Place container open end down in the Ecolab Solid Laundry Dispenser.
2. To remove used container, carefully lift from dispenser. Turn container upright.
3. Use cap from new container to close the used container. Do not reuse empty container.
4. If product contacts hands, wash off immediately

Use product for intended purpose or dispose in accordance with regulations. Rinse empty container with water 3 times and recycle empty container

Freeze/Thaw Restrictions: No

Usage Temperature Range: 140 – 180°F

Usage

Light: 60 grams / CWT (20 ppm)

Medium: 90 grams / CWT (30 ppm)

Heavy: 120 grams / CWT (40 ppm)

Government: 57 grams / CWT (18 ppm)

Product AS SOLD

Eyes: Safety goggles; face shield

Hands: No protective equipment is needed under normal use conditions.

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

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

Product AT USE DILUTION

Eyes: No special protective equipment required.

Hands: No special protective equipment required.

Skin: No special protective equipment required.

Respiratory: No personal respiratory protective equipment normally required.

Improper use or dilution may increase the risk of health effects and cause surface damage or staining

Consult your Ecolab Specialist or call 1-800-35 CLEAN (352-5326) for specific use directions, service, or additional information.

PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid [Cast Solid]
Color	White
Odor	Odorless
pH	10.2 - 11.2 (1 %)

Ingredients:

Sodium Carbonate	497-19-8
Sodium Carbonate Peroxide	15630-89-4
Sodium Chloride	7647-14-5
C12-C16 Pareth-5	68551-12-2
Sodium Polyacrylate	9003-04-7
Aqua	7732-18-5
PEG-90M	25322-68-3
Sodium Metasilicate	6834-92-0
No Fragrance Added	

% P Formula ingredients contain no phosphorus

PACKAGING / PRODUCT NUMBERS

Size Available	Product Number
2 - 3 lb / (1.4 kg)	16016

1 - This product meets Green Seal™ Standard GS-51 based on effective performance, concentration of product, minimized/recycled packaging, and protective limits on human & environmental toxicity. Solids have alternate thresholds for acute toxicity and skin/eye damage, and added requirements for packaging and labeling. GreenSeal.org

Solid Navisoft

CLASSIFICATION

Concentrated Laundry Softener

PRODUCT DESCRIPTION

Ideal for hospitality or healthcare linens, this highly concentrated mixture of fabric softener and sour leaves linens with a soft hand. Doesn't spot or stain like some liquid softeners. The correct level of sour ensures that proper pH level is achieved to help minimize skin irritation from residual alkalis and bicarbonates. This product is Green Seal™ (GS-51) certified¹.

USE

**FOR INDUSTRIAL USE ONLY - NOT FOR HOUSEHOLD USE.
DO NOT MIX WITH ANYTHING BUT WATER.**

Keep Container Tightly Closed
For Laundry Use Only
Store in a dry place

DIRECTIONS FOR USE

For use with an approved Ecolab Solid Laundry Dispenser – see your local Ecolab Sales Representative for assistance.

1. Remove product container cap. Use container handle. Place container open end down in the Ecolab Solid Laundry Dispenser.
2. To remove used container, carefully lift from dispenser. Turn container upright.
3. Use cap from new container to close the used container. Do not reuse empty container.
4. If product contacts hands, wash off immediately

Use product for intended purpose or dispose in accordance with regulations. Rinse empty container with water 3 times and recycle empty container.

Usage Temperature Range: 90 – 110°F

Usage

Dose applicable in hard or softened water. Product to be used with multi-component solid program line. For max efficiency of Laundry Program always wash full loads.

Normal: 15 grams / CWT

Government: 11.5 grams / CWT

Freeze/Thaw Restrictions: No

Product AS SOLD

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

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

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

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

Product AT USE DILUTION

Eyes: No protective equipment is needed under normal use conditions.

Hands: No protective equipment is needed under normal use conditions.

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

Respiratory: No special protection is required.

Improper use or dilution may increase the risk of health effects and cause surface damage or staining.

Consult your Ecolab Specialist or call 1-800-35 CLEAN (352-5326) for specific use directions, service, or additional information.

PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid [Cast Solid]
Color	Tan
Odor	Fragrance-like
pH	2 to 3 [Conc. (% w/w): 1%]

Ingredients:

Sodium Bisulfate	7681-38-1
Dicarboxylic Acid C ₄₋₆	68603-87-2
DI-C ₁₄₋₁₆ Alkl Dimonium Chloride	68002-58-4
PEG 90M	25322-68-3
PEG-6 Methyl Ether	9004-74-4
Sodium Sulfate	7757-82-6
Diethylene Glycol	111-46-6
Glycol	
Fragrance added	

Please refer to the IFRA website for additional information on fragrance
www.ifraorg.org/en-us/ingredients

% P Formula ingredients contain no phosphorus

PACKAGING / PRODUCT NUMBERS

Size Available	Product Number
2 - 6 lb / (2.7 kg)	16001

1 - This product meets Green Seal™ Standard GS-51 based on effective performance, concentration of product, minimized/recycled packaging, and protective limits on human & environmental toxicity. Solids have alternate thresholds for acute toxicity and skin/eye damage, and added requirements for packaging and labeling. GreenSeal.org

Tri-Star® L-2000 XP®

CLASSIFICATION

Super Concentrated Emulsion Detergent

PRODUCT DESCRIPTION

A high performance, alkaline, one-shot, emulsion detergent with nonionic surfactants and conditioners. Superior surfactants boost performance in a wide range of wash temperatures and in challenging water conditions like high hardness or high dissolved solids. Effective on both oily and particulate soils.

USE

**FOR INDUSTRIAL USE ONLY
NOT FOR HOUSEHOLD USE**

DIRECTIONS FOR USE

Use only with Ecolab Laundry Dispensing Systems.

The dispensing rate is set on-site by an Ecolab Laundry Specialist and may vary depending on soil type and amount, fabric type, water conditions, etc. No adjustment of the dispensing rate can be made except by an Ecolab Laundry Specialist. **DO NOT** use on wool, silk or delicate fabrics. **DO NOT** use in laundry machines with porcelain-lined or soft metal tubs.

Consult your Ecolab Specialist or call 1-800-35 CLEAN (352-5326) for specific use directions, service, or additional information.

Recommended Wash Temperature: 100 – 180°F

Usage:

Light: 5 fl oz / CWT (5 - 9 drops)

Medium: 7 fl oz / CWT (9 - 13 drops)

High: 9 fl oz / CWT (13 - 16 drops)

Government: 5 fl oz / CWT (5 - 9 drops)

Freeze/Thaw: Unstable

PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid [Emulsion]
Color	Blue
Odor	Faint odor
pH	13 to 14 [Conc. (% w/w): 100%]

Ingredients:

Water	7732-18-5
Sodium Hydroxide	1310-73-2
Alcohol Alkoxylate	160875-66-1
Alcohols, Ethoxylated	68551-12-2
2-Propenoic Acid, Homopolymer, Sodium Salt	9003-04-7

% P Formula ingredients contain no phosphorus

PACKAGING / PRODUCT NUMBERS

Size Available	Product Number
5 U.S. gal / 18.9L	61000031

Eco-Star® Destainer

CLASSIFICATION

Concentrated Chlorinated Liquid Bleach

PRODUCT DESCRIPTION

Concentrated chlorinated bleach provides fast bleaching action, removes difficult stains.

USE

FOR INDUSTRIAL USE ONLY - NOT FOR HOUSEHOLD USE

KEEP OUT OF REACH OF CHILDREN

DO NOT MIX WITH ANYTHING BUT WATER

DIRECTIONS FOR USE

Use only with Ecolab Laundry Dispensing Systems.

The dispensing rate is set on-site by an Ecolab Laundry Specialist and may vary depending on soil type and amount, fabric type, water conditions, etc. No adjustment of the dispensing rate can be made except by an Ecolab Laundry Specialist. **DO NOT** use on wool, silk or delicate fabrics.

Consult your Ecolab Specialist or call 1-800-35 CLEAN (352-5326) for specific use directions, service, or additional information.

Usage Temperature Range: 80 – 160°F

Usage

Light: 3 - 4 fl oz / CWT (50 ppm)

Medium: 4 - 6 fl oz / CWT (75 ppm)

Heavy: 6 - 8 fl oz / CWT (100 ppm)

Government: 3 fl oz / CWT (50 ppm)

Freeze/Thaw Restrictions: No

PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Color	Yellow [Light]
Odor	Chlorine
pH	12.5 [Conc. (% w/w): 100%]

Ingredients:

Sodium Hypochlorite	7681-52-9
Water	7732-18-5

% P Formula ingredients contain no phosphorus

PACKAGING / PRODUCT NUMBERS

Size Available	Product Number
15 U.S. gal / 57 L	16146
55 U.S. gal / 208 L	16144

Tri-Star® So Fresh

CLASSIFICATION

Fabric Softener & Deodorizer

PRODUCT DESCRIPTION

So Fresh Softener leaves linens soft and static free. Adds a gentle, clean, fresh fragrance.

USE

FOR INDUSTRIAL USE ONLY

DIRECTIONS FOR USE

Use only with Ecolab Laundry Dispensing Systems.

The dispensing rate is set on-site by an Ecolab Laundry Specialist and may vary depending on soil type and amount, fabric type, water conditions, etc. No adjustment of the dispensing rate can be made except by an Ecolab Laundry Specialist.

Consult your Ecolab Specialist or call 1-800-35 CLEAN (352-5326) for specific use directions, service, or additional information.

Usage Temperature Range: 80 – 110°F

Usage

2 - 3 fl oz / CWT

Government: 1 fl oz / CWT

Freeze/Thaw Restrictions: Yes

PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Color	Green
Odor	Fragrance-like
pH	5 to 9 [Conc. (% w/w): 100%]

Ingredients:

Dimethyl Dialkyl (C ₁₄ -C ₁₈) Ammonium Chloride	61789-80-8
Isopropyl Alcohol	67-63-0
Water	7732-18-5

% P Formula ingredients contain no Phosphorus

PACKAGING / PRODUCT NUMBERS

Size Available	Product Number
2.5 U.S. gal / 9.46 L	14672
5 U.S. gal / 18.9 L	14310
15 U.S. gal/56.8 L 15 U.S. gal / 57 L	14320

Tri-Star® Oxy-Brite®

CLASSIFICATION

Concentrated Liquid Oxygen Bleach

PRODUCT DESCRIPTION

Oxy-Brite efficiently removes stains on most washable fabrics. Use where chlorine bleach is not desired--particularly on colored fabric.

USE

FOR INDUSTRIAL USE ONLY

DIRECTIONS FOR USE

Use only with Ecolab Laundry Dispensing Systems.

The dispensing rate is set on-site by an Ecolab Laundry Specialist and may vary depending on soil type and amount, fabric type, water conditions, etc. No adjustment of the dispensing rate can be made except by an Ecolab Laundry Specialist.

Consult your Ecolab Specialist or call 1-800-35 CLEAN (352-5326) for specific use directions, service, or additional information.

Usage Temperature Range: 140 – 180°F

Usage

Light: 2.5 fl oz / CWT (50 ppm)

Medium: 3.5 fl oz / CWT (75 ppm)

Heavy: 5 fl oz / CWT (100 ppm)

Government: 2.5 fl oz / CWT (50 ppm)

Freeze/Thaw Restrictions: No

PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Color	Clear
Odor	Pungent
pH	1.7 to 3.2 [Conc. (% w/w): 100%]

Ingredients:

Hydrogen Peroxide	7722-84-1
Water	7732-18-5

% P Formula ingredients contain no phosphorus

PACKAGING / PRODUCT NUMBERS

Size Available	Product Number
5 U.S. gal / 18.9 L	16527

Clinging Lime-A-Way

CLASSIFICATION

Lime Scale Remover

PRODUCT DESCRIPTION

Clinging formula for lime scale removal in tough-to-reach applications

USE

FOR INDUSTRIAL USE ONLY - NOT FOR HOUSEHOLD USE

1. Spray *Clinging Lime-A-Way* onto surface to be cleaned. Cover surface completely with gel.
2. Let penetrate lime scale for 1 to 3 minutes. Do not let product dry on surface.
3. Rinse with clear water. For heavy buildup it may be necessary to repeat.

Consult your Ecolab Specialist for specific use directions.

For service or additional information, call 1-800-35-CLEAN (352-5326)

PHYSICAL AND CHEMICAL PROPERTIES

PhysicalState	Liquid. [Liquid.]
Color	Green. [Light]
Odor	Odorless
pH	1 [Conc. (% w/w): 100%]

Compositional information:

Phosphoric Acid 7664-38-2

1. Spray *Clinging Lime-A-Way* onto surface to be cleaned. Cover surface completely with gel.
2. Let penetrate lime scale for 1 to 3 minutes. Do not let product dry on surface.
3. Rinse with clear water. For heavy buildup it may be necessary to repeat.

Consult your Ecolab Specialist for specific use directions.

For service or additional information, call 1-800-35-CLEAN (352-5326)

Phosphoric Acid	
Citric Acid	77-92-9
Ethoxylated Polyoxypropylene	9003-11-6
Water	7732-18-5

% P Formula ingredients contain not more than 8.7% Phosphorus, 4.9 g per gal of average recommended use concentration

PACKAGING / PRODUCT NUMBERS

Size Available	Product Number
6 - 32 fl oz/946 mL	15210

Eco-Star® Sour

CLASSIFICATION

Liquid Laundry Sour

PRODUCT DESCRIPTION

High neutralizing capacity sour for the most economical use. Adjusts pH of garments to minimize potential of skin irritation and fabric browning. Should be used with care as overuse could burn linen. Limited iron controll.

USE

FOR INDUSTRIAL USE ONLY

DIRECTIONS FOR USE

Use only with Ecolab Laundry Dispensing Systems.

The dispensing rate is set on-site by an Ecolab Laundry Specialist and may vary depending on soil type and amount, fabric type, water conditions, etc. No adjustment of the dispensing rate can be made except by an Ecolab Laundry Specialist. DO NOT use in laundry machines with porcelain-lined or soft metal tubs. NOT for use in home-style machines.

Consult your Ecolab Specialist or call 1-800-35 CLEAN (352-5326) for specific use directions, service, or additional information.

Usage Temperature Range: 80 – 110°F

Usage

Normal (pH 5.5 – 6.5): 1 – 1.5 fl oz / CWT

Ironer (pH 6.0 – 7.0): 0.5 - 1 fl oz / CWT

Shirts (pH 6.5 – 7.5): 0.25 – 0.5 fl oz / CWT

Government: 1 fl oz / CWT

Freeze/Thaw Restrictions: No

PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Color	Colorless to light yellow
Odor	Pungent
pH	1.25 [Conc. (% w/w): 100%

Ingredients:

Hydrofluorosilicic Acid	16961-83-4
Water	7732-18-5

% P Formula ingredients contain no phosphorus

PACKAGING / PRODUCT NUMBERS

Size Available	Product Number
15 U.S. gal / 57 L	16159
55 U.S. gal / 208 L	16158

Memorandum of Insurance

MEMORANDUM OF INSURANCE					DATE	
					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 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.</p>						
PRODUCER Marsh USA Inc. ("Marsh")			COMPANIES AFFORDING COVERAGE			
			co. a National Union Fire Ins Co of Pittsburgh PA			
INSURED 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 A	GENERAL LIABILITY Commercial General Liability Occurrence	GL4267827 GL4267828 (Products)	31-DEC-2014 31-DEC-2014	31-DEC-2015 31-DEC-2015	GENERAL AGGREGATE PRODUCTS - COMP/OP AGG PERSONAL AND ADV INJURY EACH OCCURRENCE FIRE DAMAGE (ANY ONE FIRE) MED EXP (ANY ONE PERSON)	USD 5,000,000 USD 15,000,000 USD 2,000,000 USD 2,000,000 Prem / USD 5,000,000 Products USD 500,000
A A B	AUTOMOBILE LIABILITY Any Auto	CA3814998 (AOS) CA4875657 (MA) CA3814999 (VA)	31-DEC-2014 31-DEC-2014 31-DEC-2014	31-DEC-2015 31-DEC-2015 31-DEC-2015	COMBINED SINGLE LIMIT BODILY INJURY (PER PERSON) BODILY INJURY (PER ACCIDENT)	USD 5,000,000

					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 B C 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-2014 31-DEC-2014 31-DEC-2014	31-DEC-2015 31-DEC-2015 31-DEC-2015 31-DEC-2015	WORKERS COMP LIMITS EL EACH ACCIDENT EL DISEASE - POLICY LIMIT EL DISEASE - EACH EMPLOYEE	Statutory USD 2,000,000 USD 2,000,000 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.						

MEMORANDUM OF INSURANCE		DATE 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 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.</p>		
PRODUCER Marsh USA Inc. ("Marsh")	INSURED 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.

SAFETY DATA SHEET



TRI-STAR BREAK III-XTRA

Section 1. Chemical product and company identification

Product name : TRI-STAR BREAK III-XTRA
Recommended use and restrictions : Laundry product
Use only for the purpose on the product label.

Product dilution information : Up to 2.0 oz/10 gal or 1.6 ml/L in water

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

Code : 954503-06

Date of issue : 03 May 2013

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

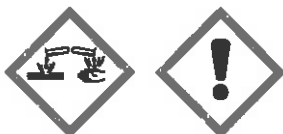
Section 2. Hazards identification

GHS Classification : **Product AS SOLD**
CORROSIVE TO METALS - Category 1
ACUTE TOXICITY: ORAL - Category 4
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.
Harmful if swallowed.
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

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

	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.	No other specific measures identified. See section 13 for waste disposal information. None known.
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	42	1310-73-2

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
Eye contact	: 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.
Skin contact	: 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.
Inhalation	: 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.
Ingestion	: Get medical attention immediately. Rinse mouth. Do not induce vomiting.	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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	
Notes to physician	: 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** : No specific fire or explosion hazard.
- 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	Product AT USE DILUTION
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.	Use personal protective equipment as required.
Environmental precautions	: 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.
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.	Use a water rinse for final clean-up.

Section 7. Handling and storage

	Product AS SOLD	Product AT USE DILUTION
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.	Wash thoroughly after handling.
Storage	: Keep out of reach of children. Keep container tightly closed. Store between the following temperatures: 10 and 40°C	Keep out of reach of children.

Section 8. Exposure controls/personal protection

Control parameters

Ingredient name	Exposure limits
SODIUM HYDROXIDE	ACGIH TLV (United States, 3/2012). C: 2 mg/m ³ OSHA PEL (United States, 6/2010). TWA: 2 mg/m ³ 8 hours. NIOSH REL (United States, 6/2009). CEIL: 2 mg/m ³

Section 8. Exposure controls/personal protection

	Product AS SOLD	Product AT USE DILUTION
Appropriate engineering controls	: 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.
Personal protection		
Eye protection	: 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.
Hand protection	: Use chemical-resistant, impervious gloves.	No protective equipment is needed under normal use conditions.
Skin protection	: Use synthetic apron, other protective equipment as necessary to prevent skin contact.	No protective equipment is needed under normal use conditions.
Respiratory protection	: 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.
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	Product AT USE DILUTION
Physical state	: Emulsion	Liquid.
Color	: White	Colorless
Odor	: Faint odor	Odorless
pH	: 13.5 (100%)	10.5 to 12
Flash point	: > 100°C Product does not support combustion.	> 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.	
Relative density	: 1.49 (Water = 1)	
Solubility	: Easily soluble in the following materials: hot water. Soluble in the following materials: cold water.	
Partition coefficient: n-octanol/water	: Not available.	
Auto-ignition temperature	: Not available.	
Decomposition temperature	: Not available.	

Section 9. Physical and chemical properties

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: metals.
 Slightly reactive or incompatible with the following materials: moisture.

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 : 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

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.

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
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

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 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>
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



Date of issue : 03 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.

SOLID SURGE PLUS

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	CAS-No.	Concentration (%)
sodium hydroxide	1310-73-2	30 - 60
alcohol ethoxylate	68551-12-2	10 - 30
Sodium Carbonate	497-19-8	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 : combustable 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 ³	ACGIH
		Ceiling	2 mg/m ³	NIOSH REL
		TWA	2 mg/m ³	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.
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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

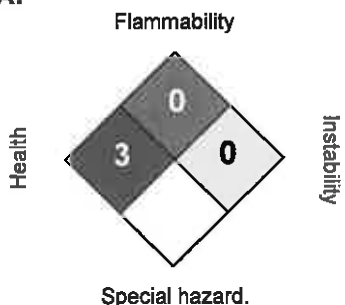
Philippines Inventory of Chemicals and Chemical Substances (PICCS) :
not determined

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

SECTION 16. OTHER INFORMATION

Product AS SOLD

NFPA:



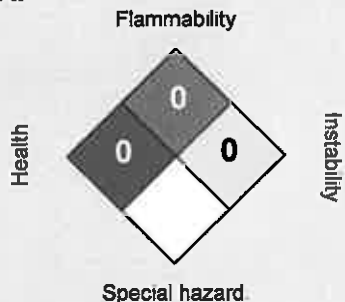
HMIS III:

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.	No other specific measures identified.
Disposal	: See section 13 for waste disposal information.	See section 13 for waste disposal information.
Other hazards	: None known.	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	Product AT USE DILUTION
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.	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.	No known effect after skin contact. Rinse with water for a few minutes.
Inhalation	: No special measures required. Treat symptomatically.	No special measures required. Treat symptomatically.
Ingestion	: Get medical attention if you feel unwell. Rinse mouth.	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)

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
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.	Use personal protective equipment as required.
Environmental precautions	: 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.
Methods for cleaning up	: 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
Handling	: 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.
Storage	: 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	ACGIH TLV (United States, 3/2012). STEL: 2.9 mg/m ³ 15 minutes. STEL: 1 ppm 15 minutes. TWA: 1.5 mg/m ³ 8 hours. TWA: 0.5 ppm 8 hours. OSHA PEL (United States, 6/2010). CEIL: 3 mg/m ³ CEIL: 1 ppm NIOSH REL (United States, 6/2009). CEIL: 0.5 ppm 15 minutes. CEIL: 1.45 mg/m ³ 15 minutes.

Section 8. Exposure controls/personal protection

	Product AS SOLD	Product AT USE DILUTION
Appropriate engineering controls	: 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.
Personal protection		
Eye protection	: 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.
Hand protection	: No protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
Skin protection	: No protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
Respiratory protection	: 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.
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	Product AT USE DILUTION
Physical state	: Cast Solid	Liquid.
Color	: White	Colorless
Odor	: chlorine	chlorine
pH	: 6.25 (1)	5.3 to 7.3
Flash point	: > 100°C Product does not support combustion.	> 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.	
Relative density	: 0 (Water = 1)	
Solubility	: Soluble in the following materials: hot water. Partially soluble in the following materials: cold 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** : 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

<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 : 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 NAVISOUR

Section 1. Chemical product and company identification

Product name : SOLID NAVISOUR
Recommended use and restrictions : Laundry product
Use only for the purpose on the product label.

Product dilution information : Up to 1 oz/100 gal or 0.8 mL/100 L in water

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

Code : 903657

Date of issue : 04 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

GHS label elements

Signal word : Danger

Symbol :



Hazard statements : Causes serious eye damage.

Precautionary statements

Prevention : 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
SODIUM BISULFATE	20 - 50	7681-38-1
carboxylic acids, di-, c4-6	20 - 50	68603-87-2
PEG-6 METHYL ETHER	5 - 20	9004-74-4
poly(oxy-1,2-ethanediyl), alpha-[2-[bis(2-aminoethyl) methylammonio]ethyl]-omega-hydroxy-, n,n'- ditallow acyl derivs., me sulfates (salts)	1 - 5	68410-69-5

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
Eye contact	: 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.
Skin contact	: 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.
Inhalation	: No special measures required. Treat symptomatically.	No special measures required. Treat symptomatically.
Ingestion	: Get medical attention if symptoms occur.	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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	
Notes to physician	: 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	: No specific fire or explosion hazard.
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
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.	Use personal protective equipment as required.
Environmental precautions	:	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.
Methods for cleaning up	:	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
Handling	:	Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Wash thoroughly after handling.	Wash thoroughly after handling.
Storage	:	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
None.	

		Product AS SOLD	Product AT USE DILUTION
Appropriate engineering controls	:	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.
Personal protection			
Eye protection	:	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.
Hand protection	:	No protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
Skin protection	:	No protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
Respiratory protection	:	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.
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	: Cast Solid
Color	: Tan
Odor	: Fragrance-like
pH	: 2.5 (1%)
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	: Not applicable.
Solubility	: Soluble in the following materials: hot water. Partially soluble in the following materials: cold water.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Odor threshold	: Not available.
Viscosity	: Not available.

Product AT USE DILUTION

Liquid.
Colorless
Fragrance-like
5 to 7
> 100°C

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

Section 11. Toxicological information

	Product AS SOLD	Product AT USE DILUTION
Symptoms		
Eye contact	: Adverse symptoms may include the following: pain watering redness	No specific data.
Skin contact	: No specific data.	No specific data.
Inhalation	: No specific data.	No specific data.
Ingestion	: No specific data.	No specific data.
Acute toxicity		
Eye contact	: Causes serious eye damage.	No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.	No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.	No known significant effects or critical hazards.
Ingestion	: 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
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.
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
Sodium bisulfate	Acute LC50 7960 mg/l	Fish	96 hours
carboxylic acids, di-, c4-6	Acute LC50 59.5 mg/l	Fish	96 hours
poly(oxy-1,2-ethanediyl), .alpha.-methyl-.omega.-hydroxy-	Acute LC50 10000 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>
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 : 04 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 : SOLID OXY-BRITE

Other means of identification : not applicable

Recommended use : Laundry product

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 : 07/11/2014

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Product AS SOLD

Acute toxicity (Oral) : Category 4
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 serious eye damage.

Precautionary Statements : **Prevention:**
Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye protection/ face protection.
Response:
IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. 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. Rinse mouth.
Disposal:
Dispose of contents/ container to an approved waste disposal plant.

Product AT USE DILUTION

SAFETY DATA SHEET

SOLID OXY-BRITE

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 Carbonate	497-19-8	30 - 60
Sodium Carbonate Peroxyhydrate	15630-89-4	30 - 60
alcohol ethoxylate	68551-12-2	1 - 5
Polyethylene Glycol	25322-68-3	1 - 5

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 : 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.

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

SAFETY DATA SHEET

SOLID OXY-BRITE

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.

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

SAFETY DATA SHEET

SOLID OXY-BRITE

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.

Storage temperature : 0 °C to 40 °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
Polyethylene Glycol	25322-68-3	TWA	10 mg/m ³	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 : 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. 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

SAFETY DATA SHEET

SOLID OXY-BRITE

	Product AS SOLD	Product AT USE DILUTION
Appearance	: Solid form	liquid
Color	: white	colorless
Odor	: odorless	odorless
pH	: 10.2 - 11.2, 1 %	9.5 - 10.5
Flash point	: not applicable	
Odor Threshold	: no data available	
Melting point/freezing point	: no data available	
Initial boiling point and boiling range	: > 100 °C	
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	: 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.
Incompatible materials	: Bases Acids Organic materials
Hazardous decomposition products	: Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

SAFETY DATA SHEET

SOLID OXY-BRITE

Information on likely routes of exposure : 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 : 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 : No symptoms known or expected.
Ingestion : No information available.
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 1,758 mg/kg
Acute inhalation toxicity : no data available
Acute dermal toxicity : no data available
Skin corrosion/irritation : no data available

SAFETY DATA SHEET

SOLID OXY-BRITE

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
	Polyethylene Glycol LD50 rabbit: 20,000 mg/kg

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	: alcohol ethoxylate 96 h LC50 Fish: 1.5 mg/l
	Polyethylene Glycol 96 h LC50 Fish: > 1,000 mg/l

Ingredients

Toxicity to daphnia and other aquatic invertebrates	: Sodium Carbonate 48 h EC50 Daphnia : 200 mg/l
	Sodium Carbonate Peroxyhydrate 48 h EC50 Daphnia : 4.9 mg/l

Persistence and degradability

no data available

Bioaccumulative potential

no data available

SAFETY DATA SHEET

SOLID OXY-BRITE

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.

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

SAFETY DATA SHEET

SOLID OXY-BRITE

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) :

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

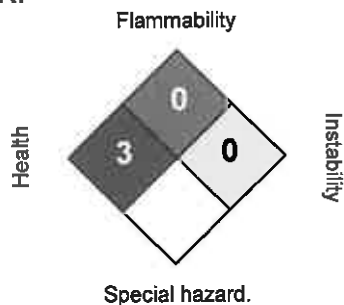
SECTION 16. OTHER INFORMATION

Product AS SOLD

SAFETY DATA SHEET

SOLID OXY-BRITE

NFPA:



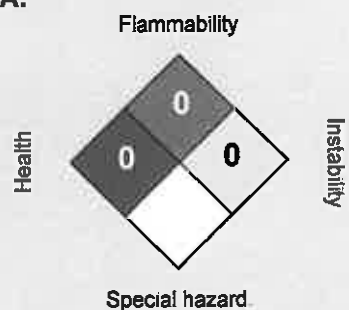
HMIS III:

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 : 07/11/2014
Version : 1.5
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 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.	
Storage	: No other specific measures identified.	No other specific measures identified.
Disposal	: See section 13 for waste disposal information.	See section 13 for waste disposal information.
Other hazards	: None known.	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
Eye contact	: 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.
Skin contact	: 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.
Inhalation	: 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.
Ingestion	: Get medical attention immediately. Rinse mouth. Do not induce vomiting.	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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	
Notes to physician	: 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
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.	Use personal protective equipment as required.
Environmental precautions	: 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.
Methods for cleaning up	: 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
Handling	: 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.
Storage	: 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 ³ 8 hours.

Section 8. Exposure controls/personal protection

	Product AS SOLD	Product AT USE DILUTION
Appropriate engineering controls	: 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.
Personal protection		
Eye protection	: 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.
Hand protection	: 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.
Skin protection	: 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.
Respiratory protection	: 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.
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	Product AT USE DILUTION
Physical state	: Cast Solid	Liquid.
Color	: Tan	Colorless
Odor	: Fragrance-like	Fragrance-like
pH	: 2 to 3 (1%)	5 to 7
Flash point	: > 100°C Product does not support combustion.	> 100°C
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	: 0 (Water = 1)	
Solubility	: Soluble in the following materials: hot water. Partially soluble in the following materials: cold 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** : 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-2,2'-oxybisethanol	Acute LC50 10000 mg/l	Fish	96 hours
	Acute LC50 75200 mg/l	Fish	96 hours

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.
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		

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.) :



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.

Product AT USE DILUTION

Health	0
Flammability	0
Physical hazards	0



SAFETY DATA SHEET



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.	
Storage	: No other specific measures identified.	No other specific measures identified.
Disposal	: See section 13 for waste disposal information.	See section 13 for waste disposal information.
Other hazards	: None known.	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
quatarnary 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
Eye contact	: 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.
Skin contact	: 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.
Inhalation	: 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.
Ingestion	: Get medical attention immediately. Rinse mouth. Do not induce vomiting.	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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	
Notes to physician	: 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

Personal precautions : **Product AS SOLD**
: 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 : 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

Handling : **Product AS SOLD**
: Do not ingest. Do not get in eyes or on skin or clothing. 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

Wash thoroughly after handling.

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 ³ 8 hours.

Section 8. Exposure controls/personal protection

	Product AS SOLD	Product AT USE DILUTION
Appropriate engineering controls	: 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.
Personal protection		
Eye protection	: 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.
Hand protection	: 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.
Skin protection	: 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.
Respiratory protection	: 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.
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	Product AT USE DILUTION
Physical state	: Cast Solid	Liquid.
Color	: Tan	Colorless
Odor	: Fragrance-like	Fragrance-like
pH	: 2 to 3 (1%)	5 to 7
Flash point	: > 100°C Product does not support combustion.	> 100°C
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	: 0 (Water = 1)	
Solubility	: Soluble in the following materials: hot water. Partially soluble in the following materials: cold 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** : 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

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.

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

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.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ECO-STAR 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

ECO-STAR 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	CAS-No.	Concentration (%)
---------------	---------	-------------------

sodium hypochlorite	7681-52-9	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

ECO-STAR 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

ECO-STAR 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 ³	WEEL
chlorine	7782-50-5	TWA	0.5 ppm	ACGIH
		STEL	1 ppm	ACGIH
		Ceiling	0.5 ppm 1.45 mg/m ³	NIOSH REL
		C	1 ppm 3 mg/m ³	OSHA Z1
sodium hypochlorite	7681-52-9	STEL	2 mg/m ³	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

ECO-STAR 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	slight
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

ECO-STAR 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

ECO-STAR 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

ECO-STAR DESTAINER

Toxicity to daphnia and other aquatic invertebrates : 96 h LC50 Inland Silverside : 7.6 mg/l
: 48 h LC50 Americamysis bahia : 18.1 mg/l

Toxicity to algae : 48 h LC50 Daphnia dubia : 0.57 mg/l
: no data available

Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

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 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

ECO-STAR 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

ECO-STAR 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

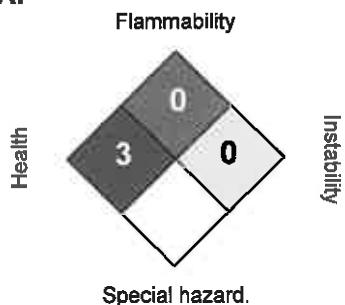
China. Inventory of Existing Chemical Substances in China (IECSC) :

On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Product AS SOLD

NFPA:



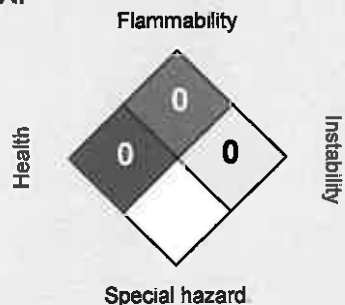
HMIS III:

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

ECO-STAR 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.



TRI-STAR SO FRESH

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 ² /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

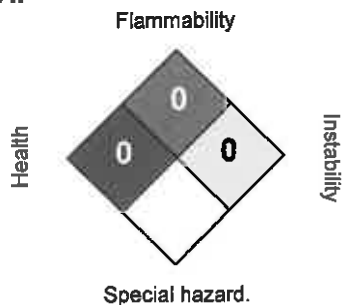
SECTION 16. OTHER INFORMATION

Product AS SOLD

SAFETY DATA SHEET

TRI-STAR SO FRESH

NFPA:



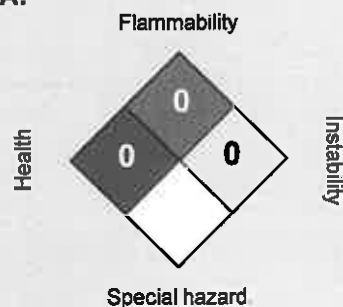
HMIS III:

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.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : TRI-STAR OXY-BRITE

Other means of identification : not applicable

Recommended use : Laundry product

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 0.04 % - 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 : 08/18/2014

SECTION 2. HAZARDS IDENTIFICATION
GHS Classification
Product AS SOLD

Oxidizing liquids : Category 3

Acute toxicity (Oral) : Category 4

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 : May intensify fire; oxidizer.
Harmful if swallowed.
Causes serious eye damage.

Precautionary Statements : **Prevention:**
Keep away from heat. Keep/Store away from clothing/ combustible materials. Take any precaution to avoid mixing with combustibles. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/ eye protection/ face protection.

Response:
IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. 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

TRI-STAR OXY-BRITE

Rinse mouth. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

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	CAS-No.	Concentration (%)
Hydrogen peroxide	7722-84-1	33.25
Hydrogen peroxide	7722-84-1	30 - 60

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 : 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.

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)

SAFETY DATA SHEET

TRI-STAR OXY-BRITE

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 : Oxidizer. Contact with other material may cause fire.
- 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 : 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

TRI-STAR OXY-BRITE

Product AS SOLD

Advice on safe handling : Do not ingest. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling.

Conditions for safe storage : Keep in a cool, well-ventilated place. 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 : 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
Hydrogen peroxide	7722-84-1	TWA	1 ppm	ACGIH
		TWA	1 ppm 1.4 mg/m ³	NIOSH REL
		TWA	1 ppm 1.4 mg/m ³	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

Eye protection : No special protective equipment required.

SAFETY DATA SHEET

TRI-STAR OXY-BRITE

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, colorless	colorless
Odor	: pungent	odorless
pH	: 1.7 - 3.2, 100 %	3.0 - 5.0
Flash point	: not applicable, Sustains 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	: 1.08 - 1.18	
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.

SAFETY DATA SHEET

TRI-STAR OXY-BRITE

Incompatible materials : Bases
Metals
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 : 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 : Harmful if swallowed.
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 : No symptoms known or expected.
Ingestion : No information available.
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

TRI-STAR OXY-BRITE

Inhalation : No symptoms known or expected.

Toxicity

Product AS SOLD

Acute oral toxicity : Acute toxicity estimate 1,462 mg/kg

Acute inhalation toxicity : 4 h Acute toxicity estimate : 33.08 mg/l

Acute dermal toxicity : no data available

Skin corrosion/irritation : No skin irritation

Serious eye damage/eye irritation : Irreversible effects on the eye

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 : 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 algae : Hydrogen peroxide
72 h EC50: 1.38 mg/l

Hydrogen peroxide
72 h EC50: 1.38 mg/l

Persistence and degradability

SAFETY DATA SHEET

TRI-STAR OXY-BRITE

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 : D001 (Ignitable)
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 : 2014
Description of the goods : Hydrogen peroxide, aqueous solutions
Class : 5.1 (8)
Packing group : II
Environmentally hazardous : no

Sea transport (IMDG/IMO)

UN number : 2014
Description of the goods : HYDROGEN PEROXIDE, AQUEOUS SOLUTION
Class : 5.1 (8)
Packing group : II

SAFETY DATA SHEET

TRI-STAR OXY-BRITE

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

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Hydrogen peroxide	7722-84-1	1000	3008

SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard

SARA 302 : The following components are subject to reporting levels established by SARA Title III, Section 302:

Hydrogen peroxide 7722-84-1 33.25 %

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:

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) :

SAFETY DATA SHEET

TRI-STAR OXY-BRITE

On the inventory, or in compliance with the inventory

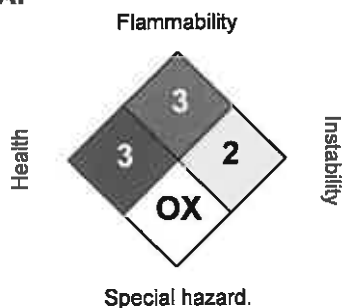
China. Inventory of Existing Chemical Substances in China (IECSC) :

On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Product AS SOLD

NFPA:



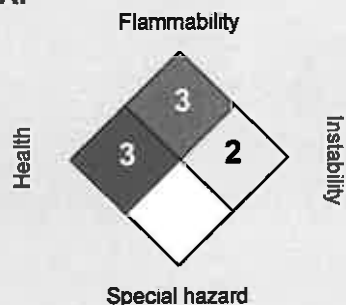
HMIS III:

HEALTH	3
FLAMMABILITY	3
PHYSICAL HAZARD	2

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

Product AT USE DILUTION

NFPA:



HMIS III:

HEALTH	3
FLAMMABILITY	3
PHYSICAL HAZARD	2

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

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CLINGING LIME-A-WAY

Section 1. Chemical product and company identification

Product name : CLINGING LIME-A-WAY
Recommended use and restrictions : Delimer
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 : 975045

Date of issue : 22 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 1
SERIOUS EYE DAMAGE/ EYE IRRITATION -
Category 1

GHS label elements

Signal word : Danger

Symbol :

Hazard statements : 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. Do not mix with bleach or other chlorinated products - will cause chlorine gas.

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

Product is sold ready to use.

Section 2. Hazards identification

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.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product AS SOLD

Hazardous ingredients	Concentration Range (%)	CAS number
CITRIC ACID	20 - 50	77-92-9
oxirane, methyl-, polymer with oxirane	1 - 5	9003-11-6

Product AT USE DILUTION

Hazardous ingredients	Concentration Range (%)	CAS number
Product is sold ready to use.		

Product is sold ready to use.

Section 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
Eye contact	: 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.
Skin contact	: 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.	
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.	
Ingestion	: Get medical attention immediately. Rinse mouth. Do not induce vomiting.	
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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	
Notes to physician	: 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 : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

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.
- 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

- Personal precautions** : **Product AS SOLD**
: 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

- Handling** : **Product AS SOLD**
: 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. Do not mix with bleach or other chlorinated products - will cause chlorine gas.
- Storage** : Keep out of reach of children. Keep container tightly closed.
Store between the following temperatures: 5 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.	

- 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.

Section 8. Exposure controls/personal protection

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	: Green [Light]
Odor	: Odorless
pH	: 1 (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	: 1.105 to 1.125 (Water = 1)
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.

Product AT USE DILUTION
Product is sold ready to use.

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. Do not mix with bleach or other chlorinated products - will cause 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, 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.

Product AT USE DILUTION

Product is sold ready to use.

Toxicity data

Product/ingredient name

citric acid	LD50 Dermal	Rat	>2000 mg/kg
	LD50 Oral	Rat	11700 mg/kg
oxirane, methyl-, polymer with oxirane	LC50 Inhalation Dusts and mists	Rat	0.147 mg/l
	LD50 Dermal	Rabbit	>2000 mg/kg
	LD50 Oral	Rat	>2000 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 : No known significant effects or critical hazards.

Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
citric acid	Acute LC50 >100 mg/l	Fish	96 hours
oxirane, methyl-, polymer with oxirane	Acute LC50 >100 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 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 : 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

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 : 22 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 : ECO-STAR SOUR

Other means of identification : Not applicable

Recommended use : Laundry product

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 0.005 % - 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 : 02/09/2015

SECTION 2. HAZARDS IDENTIFICATION
GHS Classification
Product AS SOLD

Acute toxicity (Oral) : Category 4

Skin corrosion : Category 1A

Serious eye damage : Category 1

Specific target organ systemic toxicity - repeated exposure (Oral) : Category 1 (Bone)

Specific target organ systemic toxicity - repeated exposure (Inhalation) : Category 1 (Bone)

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.
Causes damage to organs (Bone) through prolonged or repeated exposure if swallowed.
Causes damage to organs (Bone) through prolonged or repeated exposure if inhaled.

Precautionary Statements : **Prevention:**
Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Wash skin

SAFETY DATA SHEET

ECO-STAR SOUR

thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/ protective clothing/ eye protection/ face protection. Do not mix with bleach or other chlorinated products – will cause chlorine gas.

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 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
fluorosilicic acid

CAS-No.
16961-83-4

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. Apply calcium gluconate gel, if available, or milk of magnesia to affected area.

If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately. If available, take several calcium antacid tablets (eg Tums) or several tablespoons of milk of magnesia.

SAFETY DATA SHEET

ECO-STAR SOUR

- 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.

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.

SAFETY DATA SHEET

ECO-STAR SOUR

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 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. Do not mix with bleach or other chlorinated products – will cause chlorine gas.

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 : 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 : Wear eye protection/ face protection.

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.

SAFETY DATA SHEET

ECO-STAR SOUR

- 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 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	: pungent	odorless
pH	: 1.25, 100 %	5.5 - 7.5
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	: 1.225	
Water solubility	: soluble	
Solubility in other solvents	: No data available	
Partition coefficient: n-octanol/water	: No data available	

SAFETY DATA SHEET

ECO-STAR SOUR

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	: Do not mix with bleach or other chlorinated products – will cause chlorine gas.
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

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	: May cause damage to organs through prolonged or repeated exposure.

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.

SAFETY DATA SHEET

ECO-STAR SOUR

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.

Toxicity

Product AS SOLD

- Acute oral toxicity : Acute toxicity estimate 1,720 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

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

SAFETY DATA SHEET

ECO-STAR SOUR

Toxicity to algae : No data available

Ingredients

Toxicity to fish : fluorosilicic acid
96 h LC50 Fish: 50 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. 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 : 1778
Description of the goods : Fluorosilicic acid
Class : 8
Packing group : II
Environmentally hazardous : no

Sea transport (IMDG/IMO)

UN number : 1778

SAFETY DATA SHEET

ECO-STAR SOUR

Description of the goods : FLUOROSILICIC ACID
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

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:

Switzerland. New notified substances and declared preparations :

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

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

SAFETY DATA SHEET

ECO-STAR SOUR

Philippines Inventory of Chemicals and Chemical Substances (PICCS) :

On the inventory, or in compliance with the inventory

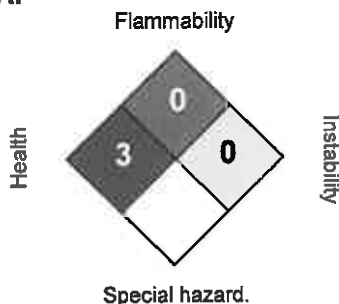
China. Inventory of Existing Chemical Substances in China (IECSC) :

On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Product AS SOLD

NFPA:



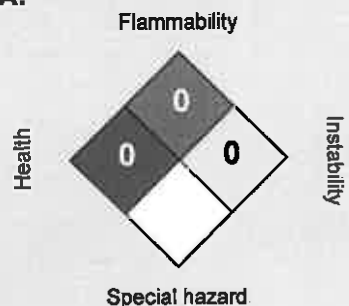
HMIS III:

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 : 02/09/2015
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.

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: Ecolab Inc.

Signed: [Signature]

Date: 04/16/2015

Title: 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 Kollar* Date: 04/16/2015

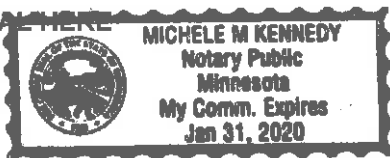
State of Minnesota

County of Ramsey, to-wit:

Taken, subscribed, and sworn to before me this 16 day of April, 2015.

My Commission expires 1-31, 2020.

AFFIX SEAL HERE



NOTARY PUBLIC *Michele Kennedy*