



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
DWASH10

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
JO ANN ADKINS 304-558-8802

*709030107 800-352-5326
ECOLAB INC
370 WABASHA STREET

ST PAUL MN 55102

VENDOR

SHIP TO

**ALL STATE AGENCIES
 AND POLITICAL SUBDIVISIONS
 VARIOUS LOCALES AS INDICATED
 BY ORDER**

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B	FREIGHT TERMS
08/19/2010	Net 30	common carrier	destination	FOB

BID OPENING DATE: **09/16/2010** **BID OPENING TIME 01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	EA		485-38-04-001		
<p>DISHWASHER DISPENSING EQUIPMENT AND SUPPLIES</p> <p>REQUEST FOR QUOTATION</p> <p>THE PURCHASING DIVISION IS SOLICITING BIDS FOR DISHWASHING MATERIALS, DISPENSING EQUIPMENT AND SERVICE TO ALL WEST VIRGINIA STATE AGENCIES AND POLITICAL SUBDIVISIONS.</p> <p>ATTACHMENTS TO THIS REQUEST FOR QUOTATION:</p> <ol style="list-style-type: none"> GENERAL SPECIFICATIONS & ITEM SPECIFICATIONS, EIGHT PAGES, DATED AUGUST 19, 2010. PRICING PAGE - VENDOR TO COMPLETE INFORMATION PAGE - VENDOR TO COMPLETE LIST OF FACILITIES USING DWASH NO DEBT AFFIDAVIT RESIDENT VENDOR PREFERENCE <p>PREVIOUS ANNUAL PURCHASES AGAINST THE CONTRACT AMOUNT TO APPROXIMATELY \$200,000.00. SUBJECT FIGURE IS SHOWN FOR INFORMATIONAL PURPOSES AND SHOULD NOT BE CONSTRUED AS ANY GUARANTEE OF FUTURE CONTRACT USAGE.</p> <p>CONTRACTOR SHALL REMOVE ANY PRODUCT ON THIS CONTRACT THAT THE AGENCY HAS RECEIVED AND DETERMINED THAT PRODUCT IS UNSATISFACTORY IN PERFORMANCE AND/OR IS NOT SUITABLE FOR THEIR FACILITY.</p>						

RECEIVED
 2010 SEP -9 A 10:45
 PURCHASING DIVISION
 STATE OF WV

SEE REVERSE SIDE FOR TERMS AND CONDITIONS			
SIGNATURE <i>Michele Kennedy</i>	TELEPHONE 651-293-2372	DATE 9/8/10	
TITLE Michele Kennedy Government Sales Manager	FEIN 41-0231510	ADDRESS CHANGES TO BE NOTED ABOVE	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

**GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **CONFIDENTIALITY:** The vendor agrees that he or she 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/noticeConfidentiality.pdf>.
15. **LICENSING:** Vendors 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, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will 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 the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



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LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>INQUIRIES</p> <p>WRITTEN QUESTIONS SHALL BE ACCEPTED THROUGH CLOSE OF BUSINESS ON FRIDAY, SEPTEMBER 3, 2010. QUESTIONS MAY BE SENT VIA USPS, FAX, COURIER OR E-MAIL IN ORDER TO ASSURE NO VENDOR RECEIVES AN UNFAIR ADVANTAGE, NO SUBSTANTIVE QUESTIONS WILL BE ANSWERED ORALLY. IF POSSIBLE, E-MAIL QUESTIONS ARE PREFERRED. ADDRESS INQUIRIES TO:</p> <p>JO ANN ADKINS DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305 FAX: 304.558.4115 E-MAIL: JO.A.ADKINS@WV.GOV</p> <p>EXHIBIT 3</p> <p>LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE ON AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING 30 DAYS WRITTEN NOTICE.</p> <p>UNLESS SPECIFIC PROVISIONS ARE STIPULATED ELSEWHERE IN THIS CONTRACT DOCUMENT, THE TERMS, CONDITIONS AND PRICING SET HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT.</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Michele Kennedy</i>	TELEPHONE 651-293-2372	DATE 9/8/10
TITLE Michele Kennedy Government Sales Manager	FEIN 41-0231510	ADDRESS CHANGES TO BE NOTED ABOVE

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<p>RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) ONE (1) YEAR PERIODS.</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICE SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</p> <p>OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANSPORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK.)</p> <p>QUANTITIES: QUANTITIES LISTED IN THE REQUISITION ARE APPROXIMATIONS ONLY, BASED ON ESTIMATES SUPPLIED BY THE STATE SPENDING UNIT. 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.</p> <p>ORDERING PROCEDURE: SPENDING UNIT(S) SHALL ISSUE A WRITTEN STATE CONTRACT ORDER (FORM NUMBER WV-39) TO THE VENDOR FOR COMMODITIES COVERED BY THIS CONTRACT. THE ORIGINAL COPY OF THE WV-39 SHALL BE MAILED TO THE VENDOR AS AUTHORIZATION FOR SHIPMENT, A SECOND COPY</p>						

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<p>MAILED TO THE PURCHASING DIVISION, AND A THIRD COPY RETAINED BY THE SPENDING UNIT.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.</p> <p>THE TERMS AND CONDITIONS CONTAINED IN THIS CONTRACT SHALL SUPERSEDE ANY AND ALL SUBSEQUENT TERMS AND CONDITIONS WHICH MAY APPEAR ON ANY ATTACHED PRINTED DOCUMENTS SUCH AS PRICE LISTS, ORDER FORMS, SALES AGREEMENTS OR MAINTENANCE AGREEMENTS, INCLUDING ANY ELECTRONIC MEDIUM SUCH AS CD-ROM.</p> <p>REV. 04/11/2001</p> <p>PURCHASING CARD ACCEPTANCE: THE STATE OF WEST VIRGINIA CURRENTLY UTILIZES A VISA PURCHASING CARD PROGRAM WHICH IS ISSUED THROUGH A BANK. THE SUCCESSFUL VENDOR MUST ACCEPT THE STATE OF WEST VIRGINIA VISA PURCHASING CARD FOR PAYMENT OF ALL ORDERS PLACED BY ANY STATE AGENCY AS A CONDITION OF AWARD.</p> <p>EXHIBIT 10</p> <p style="text-align: right;">REQUISITION NO.:</p> <p>ADDENDUM ACKNOWLEDGEMENT</p> <p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.</p>						

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ADDENDUM NO.'S:						
NO. 1						
NO. 2						
NO. 3						
NO. 4						
NO. 5						
<p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.</p> <p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p> <p style="text-align: center;">..... <i>Michele Kennedy</i> SIGNATURE</p> <p style="text-align: center;">..... Ecolab Inc. COMPANY</p> <p style="text-align: center;">..... 9/8/10 DATE</p> <p>NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE BID.</p>						

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CONTACT PERSON (PLEASE PRINT CLEARLY):						
***** THIS IS THE END OF RFQ DWASH10 ***** TOTAL:						152,059.84

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General Specifications DWASH10

SCOPE

This contract is to supply dishwashing dispensing equipment and detergent (and other items as detailed on the pricing sheet) to all West Virginia State Agencies and Political Subdivisions.

Vendor shall provide the usage rate for their products and the cost per 10 gallons of water. Usage rate shall be based on eight (8) grains of hardness per gallon of water, unless otherwise noted.

Vendor is to the pricing page sections describing the commodities bid by brand name, unit of measure / packaging, net weight of commodity per case, and the usage rate per 10 gallons of water.

Vendor's products and services will produce a highly effective cleaning of china, plastic, and metal ware at the product's usage rates quoted in the bid document.

Vendor shall provide the following items with their bid response:

- A) Manufacturer's recommended product usage rates for medium soil conditions.
- B) Product brochures which describe the product usage.
- C) Material Safety Data Sheets.

Product brochures shall be provided for the products bid. Material safety data sheets shall be provided with the bid.

PACKAGING

The dishmachine 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 packaged in a case with the maximum total weight of approximately sixty (60) pounds.

Rinse additives shall be packaged in the manufacturer's standard unit.

DISPENSING EQUIPMENT

The contractor shall furnish, install and maintain on a loan basis at no cost to the State of West Virginia, proper dispensing equipment as follows:

All continuous belt type dishwashing machines (flight type) two-tank dishwashing machines and single tank conveyor dishwashing machines and single tank conveyor dishwashing machines to be equipped with electronic dishwashing compound dispensers. Electronic dispensers shall also be provided for use with single tank door-type dishwashing machines using 2,000 lbs. or more of dishwashing compound per year. It shall be the responsibility of the contractor to install and service all electronic dispensers requested by the using agencies. However, the using

agencies shall provide suitable water and electrical connections on or adjacent to the dishwashing machines.

All other dishwashing machines shall be equipped with hydraulic (gravity feed type) dishwashing compound dispensers.

In addition, where rinse additives are used, dishwashing machines shall be equipped with a rinse injector. It shall be the responsibility of the contractor to install rinse injectors. However, the using agency shall provide suitable water and electrical connections on or adjacent to the dishwashing machine.

All dispensers and injectors furnished by the contractor shall be first line models such as are in use by other accounts serviced by the contractors and installation shall be made in accordance with accepted engineering practices.

No installation shall create a cross connection of back siphonage into approved water supply.

INSTALLATION OF DISPENSING EQUIPMENT

Immediately upon award of the contract, the contractor shall contact or visit all using agencies to schedule installation of the dispensing equipment.

All equipment furnished by the prior contractor shall remain in service and be properly maintained by the prior contractor until all the prior contractor's compounds remaining in the agencies stocks are consumed or a period of 30 days whichever occurs first. The previous vendor will accept return of merchandise and issue a credit to the agency for stock that would not be compatible with a change in dispensing equipment.

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

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 contractor to install their brand of dispensing equipment; vendor shall allow a minimum of 30 days for such transition period.

Dispensers and injectors shall be of first quality, in good condition, and shall be properly installed.

CONTRACTOR'S SERVICING

At each regular inspection, it shall be the contractor's responsibility to:

- A) Inspect and properly maintain all dispensing equipment whether supplies by the contractor or owned by the State of West Virginia.

- B) Check all dishwashing machines in operation at the agency, 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 deliming when necessary. The using agency shall provide deliming solvent.
- C) 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.
- D) Check the facility's Sanitizing Titration Test Kit for completeness as per Sections 4-302.14 and 501.116 of the 1999 Federal Food Code which is incorporated by reference in West Virginia legislative rule, 64CSR17, Food Establishments
- E) Instruct the Institutional Personnel in the proper use of the Sanitizing Titration Test Kit.
- F) Instruct institutional personnel in the proper use of dishwashing machines and dispensing equipment, as well as the materials used therein.
- G) Submit to the business manager of the institution 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. A copy of each report shall be forwarded to:

Department of Administration
Purchasing Division
ATTN: Jo Ann Adkins
2019 Washington Street East
Charleston, WV 25305-0130

NOTE: Failure of the contractor to submit reports as herein provided and/or failure to provide highly effective cleaning of dinnerware at the usage rate as bid, shall be sufficient cause for cancellation of this contract.

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

TOXICITY:

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

by the Contractor shall meet all safety and health requirements of all applicable government agencies.

FINAL RINSE ADDITIVES:

Drying solution shall be suitable for quick drying of all eating utensils and tableware, (utensils, glassware, china, silverware, plastic dinnerware) without water spotting or towelings. An odorless non-foaming rinse additive containing no alcohol or aromatic solvents, non-toxic, product when mixed into water at 180* degrees F. shall show no settling out and shall give a clear to translucent solution.

SERVICE REPRESENTATIVES:

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

The successful vendor shall have four service representatives working with the agencies of the State of West Virginia. The service representatives shall live in the general area in which service is to be provided.

Information on the service representatives shall be entered on the "Information Page" attached to this request for quotation.

GENERAL CONDITIONS

- 1) Orders shall be delivered within 14 days after receipt of order. Preferred delivery is 10 days ARO. Delivery greater than 21 days will not be considered. Spending units shall be advised in writing if orders will be delayed for any reason. Contractor shall carry an adequate stock to insure such delivery service for the duration of the contract.

Bidders shall enter their delivery information (number of days after receipt of order) on the pricing page.

- 2) All orders from this contract totaling \$200.00 or more shall be delivered FOB: Destination.

All orders less than \$200.00 shall be delivered FOB: Shipping Point. Any transportation costs will be invoiced as a separate charge with the original freight bill attached to the invoice.

- 3) Contractor shall remove any product on this contract that the agency has received and determined the product is unsatisfactory in performance and/or is not suitable for their facility.
- 4) All quantities listed in the request for quotation are approximations only, based on estimates supplied by the state spending units. 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.

- 5) The successful vendor shall not substitute any other brand from those awarded, nor sell any additional items under their contract not specifically covered herein, without prior written permission of the Purchasing Division.
- 6) The Purchasing Division desires to enter into a fixed price contract with the successful vendor. The prices quoted in the vendor(s) quote will not be subject to any increase for the original contract term of one year.
- 7) Successful vendor is to provide a nine (9) month summary report of procurement volumes by line item and dollar amounts. This is a single report which is to be furnished at the beginning of the tenth month of the contract. This report shall also contain a list of the facilities using the contract. The report is to be delivered to:

Jo Ann Adkins, Senior Buyer
Purchasing Division
2019 Washington Street, East
Charleston, WV 25305-0130
Jo.a.adkins@wv.gov

ITEM SPECIFICATIONS

Item 1 - DISHWASHER DETERGENT FOR HARD WATER - The compound shall be a highly concentrated detergent which may be a liquid or a solid. The compound shall be a uniform detergent for cleaning glassware, china, plastic, and in spray type washers in water conditions of 8.0 grains of water hardness or more per gallon. Product specifications should be similar to the following:

- * Available chlorine content: .75% minimum by weight.
- * Total alkalinity: 30% minimum to 40% maximum as na o
- * PH of the compound: should not exceed 12.5 in solution.
- * Foaming quality: diluted solution heated to 155 degrees – 165 degrees and shaken vigorously shall show no foam 30 seconds after agitation has stopped.

Item 2 - RINSE ADDITIVE: DISHWASHER, LIQUID – The rinse additive shall be a type which will speed air drying, reduce water spotting and filming, eliminate the need for toweling and enhance the sanitary conditions of eating utensils processed through the dishwashing machine. Product shall be non-corrosive and non-toxic. Product shall be usable in both hard and soft water.

- * PH maximum should not exceed 8.5 for a 1% solution.

- * Product shall cause a complete run-off of water in 20-30 seconds from average ware when removed from 180 degrees F hot water rinse, spray type dishwashing machine.
- * The rinse additive must be biodegradable.

Item 3 - SANITIZER: CHLORINE, POWDER, FOR 3 COMPARTMENT SINK

- * Product shall be an EPA approved sanitizer. Immersion of utensil for at least one minute in a clean solution containing at least 50 parts per million of available chlorine as a hypochlorite and at a temperature of 75* degrees.

Item 4 - DETERGENT: MANUAL DISHWASHING, SOLID -

- * The product shall be a concentrated manual dishwashing detergent for the hand washing of china, plastic and aluminum metal ware used for food service equipment. Product shall perform in water hardness of 8 grains per gallon and should contain no phosphates.

Item 5 - PRE-SOAK: FLATWARE, DINNERWARE -

- * Product shall be biodegradable, non-phosphate, low-foaming, and shall not burn silver or stainless steel dinnerware when used as directed.

Item 6 - Rinse Additive - Product to be a liquid non-foaming biodegradable rinse additive for use with an automatic dispensing unit.

- * The product shall be used directly from the shipping container.
- * This product shall be colored blue so that the liquid level is readily visible in the container and feed hose.
- * The product will promote faster drying, reduce water spotting and filming.
- * The product PH will range from 7.0 - 8.0.
- * The product will effectively accomplish the specified functions when present in the rinse water at concentration range of 50-200 ppm.
- * The product shall not contain alcohol or phosphorus and shall remain stable for up to one year.

Item 7 - PRESOAK - SOLID - Product should be a solid presoak specifically designed for stainless flatware, not for use on silverware or silver-plate.

- * Product is formulated to restore and help maintain luster and shine of stainless flatware.

- * Product should rapidly loosen difficult protein food soils and strip away dulling film, making flatware ready for machine washing.
- * Product should be dispensed by push button controlled dispensing system that will reduce costs by eliminating waste and overuse.

Item 8 - SOLID DISHMACHINE DETERGENT - This product should be a solid, encapsulated, 100% active dishmachine detergent that is highly concentrated for use with an automatic dispensing system.

- * The product shall be dispensed directly from the shipping container.
- * The product shall have a chlorine content to remove staining from ware.
- * The product shall contain a defoamer to control sudsing and be formulated to provide sparkling results in all water conditions.

Item 9 - LIQUID LOW TEMPERATURE MACHINE DETERGENT - Product should be a highly concentrated, automatic, dishmachine detergent formulated to penetrate and strip away stubborn food soils and is effective in all water and soil conditions.

- * Product must also contain water conditioning agents to help reduce spotting and streaking.

Item 10 - HEAVY DUTY DEGREASER – OVEN CLEANER – Product shall be a ready to use, heavy duty, multi-purpose degreaser, able to remove burnt-on grease deposits from kitchen equipment.

- * Product shall be an alkaline cleaning gel capable of clinging to vertical surfaces with no run-off.
- * Product is to be applied by means of a spray gun, which is to be provided and formulated for the easy and quick removal of greases and soils from ovens, grills, ranges, hoods, vents, steamers, fryers and similar surfaces in commercial kitchens.
- * Product is to be safe for use on stainless steel and melamine.
- * Product is to be formulated to eliminate fumes, flashback and misting.
- * Product is to be non-butyl, free of phosphorous, and biodegradable.

Item 11 - AQUOUS ACIDIC CLEANER/DEGREASER/DESCALER – Product is an non-abrasive, liquid, acidic detergent, specifically formulated for delimiting and stain removal from metal, glass, ceramic, tile and cement surfaces in soft or hard water.

- * Product formulation shall be compounded of selected acidic materials and organic detergents to product no deleterious effects on

foodservice equipment and providing maximum cleaning speed and reduced labor.

Item 12 - DISINFECTANT, GERMICIDAL RINSE – Product to be an EPA registered quaternary ammonium sanitizer, for use as a sanitizing rinse in a three-compartment sink.

- * Free rinsing sanitizer, disinfectant and deodorizer, for sanitizing tables, countertops, cutting boards, meat room equipment, etc.
- * Must be safe for use on soft metals and stainless steel, as well as effective in hard water conditions up to 500 ppm.
- * Product should have a visible blue color to ensure that sanitizer is present in the use solution.

Item 13 - COLD TEMPERATURE CLEANER – Product shall be a non-dilutable liquid freezer cleaner, designed to work effectively in freezers without defrosting.

- * Product should be formulated to be self cleaning and quick drying to allow cleaning operations to be completed efficiently and foods replaced immediately.
- * Product should be non-irritating to skin and have no unpleasant odor.

Pricing Sheet - DWASH10

*Complete all information - including delivery information.

Item #	Product	Est. Qty (Cases)	Must be equal to Ecolab:	Brand	Brand Item #	Count Per Case	Case Price:	Gross Weight Per Case	Net Weight Per Case	*Usage Ratio for 10 gallons of water (show ounces)	**Treatment cost for 10 Gallons of Water
1	Dishwasher Detergent for Hard Water	1,000	Solid Power Plus	Solid Power Plus	25155	4/9#	51.86	39#	36#	0.25	0.022
2	Rinse Additive: Dishwasher, Liquid Sanitizer: Chlorine, Powder, for 3 Compartment sink	350	Jet Dry	Rinse Dry	10934	5 gal.	69.02	45.5#	42.29#	0.032	0.003
3	Detergent: Manual Dishwashing, Solid	146	Mikro-Chlor	Victory	15932	2/58oz.	60.29	10.50#	8.41#	0.625	0.324
4	Pre-Soak: Flatware, Dinnerware	250	Softaire	Softaire	17301	4/5#	90.7	22#	20#	0.25	0.07
5	Rinse Additive: Dishwasher, Liquid	100	Silver Power	Silver Power	12922	2/8#	62.73	17.3#	16#	0.5	0.122
6	Pre-soak - Solid	50	Jet Dry	Jet Dry	11817	4/1 gal.	61.84	36.1#	33.7#	0.064	0.007
7	Solid Dishwasher Detergent	75	Solid Silver Power	Silver Power	12922	2/8#	62.73	17.3#	16#	0.5	0.122
8	Liquid Low Temperature Machine Detergent	100	Solid Power	Solid Power	10371	6/9#	82.39	56.1#	54#	0.5	0.047
9	Heavy Duty Degreaser Oven Cleaner Aqueous Acidic Cleaner/Delimer/Descaler	100	Ultra Klene	Ultra Klene	12716	5 gal.	59.75	56.3#	53.1#	0.75	0.07
10	Disinfectant, Germicidal Rinse	75	Greestrip Plus	Greestrip Plus	29777	6/32oz.	52.28	15.1#	13.49#	RTU	N/A
11	Cold Temperature Cleaner	50	Ster Bac Ciu	Lime-A-Way	18700	4/1 gal.	33.44	40.80#	38.30#	5	0.326
12	Cold Temperature Cleaner	75	Kool Klene	Kool-Klene	17708	2.5 gal.	51.97	22#	20.80#	2.5	0.406
13	Cold Temperature Cleaner	100	Kool Klene	Kool-Klene	15461	4/1 gal.	67.91	38.30#	35.82#	RTU	N/A

*Based on water hardness of eight (8) grains per gallon. Treatment cost for 10 gallons as per manufacturer's specification (must include manufacturing information supporting this cost).
 **Based on water hardness of eight (8) grains per gallon. Treatment cost for 10 gallons as per manufacturer's specification (must include manufacturing information supporting this cost).

Note: I Delivery will be made within 3-5 days after receipt of order

NOTE: If you would like to receive this form electronically, Email your request to joackins@wvadmin.gov

I, Michele Kennedy representing Ecolab Inc.
 (Print Name) (Company Name)
 hereby certify that all products bid meet and comply with all specifications.
Michele Kennedy Government Sales Manager 9/8/10
 Signature Title Date

**DWASH10 - Information Page
(To be completed by Bidder)**

VENDOR: Ecolab Inc.

Contact Information:

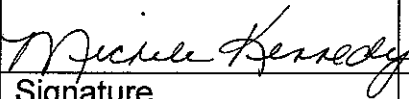
Bidders shall complete the following information on the four required service representatives:

Name	Address	Telephone Number	Fax Number
Marcus Kirk	1515 Mt Horeb Rd Princeton, WV 24740	800-352-5326 304-887-2818	651-293-2682
Ron Welsh	75 Gable Place, Bridgeport, WV 26330	800-352-5326 304-838-3795	651-293-2682
Jason Goebel	1414 Main Ave., Nitro, WV 25143	304-545-2184 800-352-5326	651-293-2682
Larry Sarver	541 McClung Rd Hurricane, WV 25526	800-352-5326 304-419-0978	651-293-2682

Reference Information:

Bidders must list four current local references:

Company Name	Contact Name	Address	Phone Number
Lakin State Hospital	RN Miller	#1 Bateman Circle, Lakin, WV 25250	304-348-0275
Sheppard College	Scott, Asst Dir	301 N King St, Shepherdstown, WV 25443	304-876-5158
Lakin Correctional	Jim Goddard	11264 Ohio River Rd West Columbia, WV 25287	304-674-6189
Stevens Correctional	Linda White	795 Virginia Ave, Welch, WV 24801	304-436-8566

Michele Kennedy		9/8/10
Name (Type or Print)	Signature	Date

CURRENT FACILITIES USING DWASH

18

NAME/ADDRESS	CITY	STATE
DUNBAR MIDDLE SCHOOL 325 27TH ST	DUNBAR	WV
JOHN ADAMS MIDDLE SCHOOL 2002 PRESIDENTIAL DR	CHARLESTON	WV
BLACKWATER LODGE REST BLACKWATER STATE PARK	DAVIS	WV
PRUNTYTOWN CORRECTIONAL CTR RR 4, BOX 49A	GRAFTON	WV
BECKLEY WORK RELEASE PINECREST HOSPITAL GRNDS	BECKLEY	WV
WEBSTER COUNTY HIGH SCHOOL 1 HIGHLANDER DR	UPPERGLADE	WV
GLADE ELEMENTARY SCHOOL RT 20	COWEN	WV
WEST VIRGINIA REHAB CTR RT 25	INSTITUTE	WV
HAYES JR HIGH 830 STRAWBERRY RD	BELLE	WV
ELKVIEW MIDDLE SCHOOL 5090 ELK RIVER ROAD	ELKVIEW	WV
EAST BANK JR HIGH RT 61	EAST BANK	WV
DUPONT JR HIGH MAIN ST W & 2ND AVE	BELLE	WV
WEST VIRGINIA NORTHERN COMMUNITY COLLEGE	WHEELING	WV
MARION HEALTH CARE HOSPITAL 401 GUFFEY ST	FAIRMONT	WV
WEST VIRGINIA INDUSTRIAL HOME FOR YOUTH	INDUSTRIAL	WV
HOPEMONT ST HOSP-WV RR3, BOX 330	TERRA ALTA	WV

CURRENT FACILITIES USING DWASH

19

NAME/ADDRESS	CITY	STATE
LAKIN STATE HOSPITAL #1 BATEMAN CIRCLE	LAKIN	WV
BARBOURSVILLE VETERANS HOME 512 WATER ST	BARBOURSVILLE	WV
WELCH COMMUNITY HOSPITAL 454 MCDOWELL ST	WELCH	WV
PINECREST HOSPITAL 105 S EISENHOWER DR	BECKLEY	WV
ANTHONY CENTER/WV ROUTE 2 NORTH	WHITE SULPHUR	WV
WEST VIRGINIA FFA-FHA CAMP/CEDAR LAKE CONF CTR	RIPLEY	WV
DUNBAR MIDDLE SCHOOL 325 27TH ST	DUNBAR	WV
BRAXTON COUNTY BOARD OF ED 411 N HILL RD	SUTTON	WV
SISSONVILLE ELEMENTARY SCHOOL 8324 SISSONVILLE DRIVE	SISSONVILLE	WV
FAMILY DEVELOPMENT HEADSTART	PARKERSBURG	WV
RICHMOND ELEMENTARY SCHOOL 4620 SPRING HILL AVE	SOUTH CHARLESTON	WV
TYGART LAKE STATE PARK RR 1, BOX 260	GRAFTON	WV
J E ROBBINS ELEMENTARY SCHOOL 915 BEECH AVENUE	CHARLESTON	WV
SISSONVILLE MIDDLE SCHOOL 8316 OLD MILL RD	SISSONVILLE	WV
GEORGE WASHINGTON HIGH SCHOOL 1 EAGLE WAY	CHARLESTON	WV
SISSONVILLE HIGH SCHOOL 6100 SISSONVILLE DRIVE	SISSONVILLE	WV

NAME/ADDRESS	CITY	STATE
NITRO HIGH SCHOOL 1301 PARK AVE	NITRO	WV
ST ALBANS HIGH SCHOOL 2009 WASHINGTON AVE	SAINT ALBANS	WV
HERBERT HOOVER HIGH SCHOOL 275 ELK RIVER ROAD	CLENDENIN	WV
CAPITAL HIGH SCHOOL 1500 GREENBRIER ST	CHARLESTON	WV
STONEWALL JACKSON JR HIGH 812 PARK AVE	CHARLESTON	WV
BRIDGEVIEW ELEMENTARY CENTER 5100 OHIO ST	SOUTH CHARLESTON	WV
SOUTH CHARLESTON JR HIGH 400 3RD AVE SW	SOUTH CHARLESTON	WV
MCKINLEY JR HIGH 3000 KANAWHA TERRACE	SAINT ALBANS	WV
ANDREW JACKSON JR HIGH 5445 BIG TYLER RD	CHARLESTON	WV
HORACE MANN JR HIGH 4302 MACCORKLE AVE SE	CHARLESTON	WV
ALUM CREEK ELEMENTARY SCHOOL ROUTE 7, BOX 279A	SOUTH CHARLESTON	WV
ST ALBANS ELEMENTARY SCHOOL 2030 HARRISON AVE	SAINT ALBANS	WV
WILLIAM R. SHARPE JR HOSPITAL/DIETARY	WESTON	WV
ANDREWS HEIGHTS ELEMENTARY COAL RIVER RD	TORNADO	WV
DENMAR CORRECTIONAL CTR DENMAR RD	HILLSBORO	WV
RUTHLAWN ELEMENTARY RT 214	SOUTH CHARLESTON	WV

NAME/ADDRESS	CITY	STATE
NITRO ELEMENTARY 1921 19TH ST	NITRO	WV
CHESAPEAKE ELEMENTARY SCHOOL 13620 MACCORKLE AVE	CHESAPEAKE	WV
SHOALS ELEMENTARY SCHOOL 100 DUTCH ROAD	CHARLESTON	WV
BROOKE HIGH SCHOOL BRUIN DR /RD 3	WELLSBURG	WV
OVERBROOKE ELEMENTARY 218 OAKWOOD RD	CHARLESTON	WV
WEBERWOOD ELEMENTARY SCHOOL 732 GORDON DRIVE	CHARLESTON	WV
BONHAM ELEMENTARY EDENS FORK RD	CHARLESTON	WV
PENDLETON CO SCHOOLS BUS GARAGE	FRANKLIN	WV
HOLZ ELEMENTARY 1505 HAMPTON RD	CHARLESTON	WV
POINT HARMONY ELEMENTARY 5312 BIG TYLER RD	CHARLESTON	WV
ELK ELEMENTARY CENTER 3320 PENNSYLVANIA AVE	CHARLESTON	WV
FLINN ELEMENTARY SCHOOL 2006 MCCLURE PKWY	CHARLESTON	WV
RUFFNER ELEMENTARY SCHOOL 809 LITZ DR	CHARLESTON	WV
MIDLAND TRAIL ELEMENTARY 200 FERRY ST	DIAMOND	WV
SHAWNEE COMMUNITY ED CTR 142 MARSHALL AVE	DUNBAR	WV
CHANDLER ELEMENTARY SCHOOL CAFETERIA	CHARLESTON	WV

NAME/ADDRESS	CITY	STATE
TYLER MIDDLE SCHOOL 4277 WASHINGTON ST W	CHARLESTON	WV
SHARON DAWES ELEMENTARY SCHOOL	MIAMI	WV
PRATT ELEMENTARY SCHOOL PRATT AVE	PRATT	WV
PINCH ELEMENTARY SCHOOL 300 S PINCH ROAD	ELKVIEW	WV
PIEDMONT ELEMENTARY SCHOOL 203 BRADFORD ST	CHARLESTON	WV
MARY INGLES ELEMENTARY SCHOOL	TAD	WV
MARMET ELEMENTARY SCHOOL 408 94TH STS DR	MARMET	WV
MALDEN ELEMENTARY SCHOOL 4001 SALINES DR.	CHARLESTON	WV
LAKESWOOD ELEMENTARY 2089 LAKESWOOD DR	SAINT ALBANS	WV
KENNA ELEMENTARY SCHOOL 198 EUREKA RD	CHARLESTON	WV
KANAWHA CITY ELEMENTARY SCHOOL 3601 STAUNTON AVENUE SE	CHARLESTON	WV
GRANDVIEW ELEMENTARY SCHOOL 959 WOODWARD DR	CHARLESTON	WV
GLENWOOD ELEMENTARY SCHOOL 810 GRANT ST	CHARLESTON	WV
DUNBAR PRIMARY 2401 MYERS AVE	DUNBAR	WV
CROSS LANES ELEMENTARY SCHOOL 5525 BIG TYLER RD	CHARLESTON	WV
CLENDENIN ELEMENTARY SCHOOL MAYWOOD AVE	CLENDENIN	WV
CHAMBERLAIN ELEMENTARY SCHOOL 4901 VENABLE AVE	CHARLESTON	WV

NAME/ADDRESS	CITY	STATE
CENTRAL ELEMENTARY SCHOOL 900 HELENE ST	SAINT ALBANS	WV
BRIDGE ELEMENTARY SCHOOL 5120 ELK RIVER ROAD N.	ELKVIEW	WV
BELLE ELEMENTARY SCHOOL 401 E 6TH ST	BELLE	WV
ANNE BAILEY ELEMENTARY SCHOOL 405 WINFIELD RD	SAINT ALBANS	WV
PUBLIC EMPLOYEES DAYCARE 302 JEFFERSON ST	CHARLESTON	WV
ST MARY'S CORRECTIONAL CTR/LY STATE ROUTE 2	SAINT MARY'S	WV
BLACKWATER LDG RESORT BLACKWATER STATE PARK	DAVIS	WV
HUTTONSVILLE CORRECTIONAL CTR/WW RT 250 S	HUTTONSVILLE	WV
MONONGALIA COUNTY BOARD OF ED WAREHOUSE	MORGANTOWN	WV
ST MARY'S CORRECTIONAL CTR/WW STAT RT 2, BOX 383B	SAINT MARY'S	WV
SOUTHWESTERN REGIONAL JAIL EARL RAY TOMBLIN IND PK	HOLDEN	WV
OHIO COUNTY CORRECTIONAL 1501 EOFF ST	WHEELING	WV
EASTERN REGIONAL JAIL 38 GRAPEVINE ROAD	MARTINSBURG	WV
ROANE COUNTY SCHOOLS 813 CAPITOL ST	SPENCER	WV
SHEPHERD COLLEGE/HS-WV RAM'S DEN	SHEPHERDSTOWN	WV
HILLSBORO ELEMENTARY MID SCHOOL GENERAL DELIVERY	HILLSBORO	WV

CURRENT FACILITIES USING DWASH

24

NAME/ADDRESS	CITY	STATE
MCNINCH ELEMENTARY SCHOOL 2600 4TH ST	MOUNDSVILLE	WV
WV REGIONAL JAIL/SOUTH CHARLESTON 1001 CENTRE WAY	CHARLESTON	WV
NORTH BEND STATE PARK RESTAURANT	CAIRO	WV
CENTRAL REGIONAL JAIL 300 DAYS DR	SUTTON	WV
JOHN MARSHALL HIGH SCHOOL 1300 WHEELING AVE	GLEN DALE	WV
CEDAR GROVE COMM SCHOOL JOHN ST	CEDAR GROVE	WV
CHARLESTON WORK RELEASE CTR 607 BROOKS ST	CHARLESTON	WV
WEIMER ELEMENTARY SCHOOL 3040 KANAWHA TERRACE	SAINT ALBANS	WV
WATTS ELEMENTARY SCHOOL 230 COSTELLO DR	CHARLESTON	WV
POTOMAC HIGHLAND REGIONAL JAIL 13 DOLIN ST	AUGUSTA	WV
RITCHIE ELEMENTARY SCHOOL 3700 WOOD ST	WHEELING	WV
WHEELING PARK HIGH/KIT 1976 PARK VIEW RD	WHEELING	WV
PRINCETON HIGH SCHOOL 1321 STAFFORD DR	PRINCETON	WV
PUTNAM AGING PROGRAMS 108 LEWIS ST	OAK HILL	WV
UPSHUR CO SCHOOL WHSE RR 6, BOX 513	BUCKHANNON	WV
MARSH WASHINGTON LANDS RR 4, BOX 255	MOUNDSVILLE	WV

NAME/ADDRESS	CITY	STATE
MARSH LIMESTONE ELEMENTARY RR 1, BOX 245	MOUNDSVILLE	WV
MARSH CAMERON HIGH SCHOOL 61 MAPLE AVE	CAMERON	WV
CAMERON ELEMENTARY 12 CHURCH ST	CAMERON	WV
MARSH SANFORD GRADE SCHOOL 1600 3RD ST	MOUNDSVILLE	WV
MARSH PARK VIEW ELEMENTARY 21 PARK ST	MOUNDSVILLE	WV
MARSH-SHEPPARD JR HIGH 1000 FAIRMONT PIKE	WHEELING	WV
MARSH/MOUNDSVILLE JR HIGH	MOUNDSVILLE	WV
MARSH CENTER 800 MARSHALL ST	MCMECHEN	WV
MARSH GLENDALE ELEMENTARY 407 7TH ST	GLEN DALE	WV
GOVERNOR'S MANSION 1716 KANAWHA BLVD E	CHARLESTON	WV
RIVERSIDE HIGH SCHOOL 1 WARRIOR WAY	BELLE	WV
DRS INSTITUTE PO BOX 1004	INSTITUTE	WV
WV DIV OF HUMAN SVCS WV CHILDREN'S HOME	ELKINS	WV
M MITCHELL/BATEMAN HOSPITAL 1530 NORWAY AVE	HUNTINGTON	WV
PIPESTEM RESORT STATE PARK WV DIV/ NATURAL RESOURCES	PIPESTEM	WV
HUTTONSVILLE CORRECTIONAL CTR RT 250 S, BOX 1	HUTTONSVILLE	WV

NAME/ADDRESS	CITY	STATE
WV INDUSTRIAL HOME FOR YOUTH 7 INDUSTRIAL BLVD	INDUSTRIAL	WV
WHEELING PARK HIGH/CUL 1976 PARK VIEW RD	WHEELING	WV
HARRISON COUNTY SCHOOL GORE WAREHOUSE	CLARKSBURG	WV
DUNBAR INTERMEDIATE CT 1330 MYERS AVE	DUNBAR	WV
NORTH CENTRAL REGIONAL 1 LOIS LANE	GREENWOOD	WV
HILLTOP CAFÉ @ ABL 210 STATE ROUTE 956	KEYSER	WV
SHERRARD ELEMENTARY RR 3, BOX 505	WHEELING	WV
CENTRAL ELEMENTARY SCHOOL 750 TOMLINSON AVE	MOUNDSVILLE	WV
TAYLOR COUNTY BOARD OF ED 12 ROSE ST	GRAFTON	WV
PRINCETON PRIMARY SCHOOL 219 PRINCETON AVE	PRINCETON	WV
BLUEFIELD INTERM SCHOOL 1301 SOUTHVIEW DR	BLUEFIELD	WV
POTOMAC STATE COLLEGE 100 FORT AVE	KEYSER	WV
JM CHICK BUCK BEE JUV 1 JERRY LN	AUGUSTA	WV
TWIN FALLS RESORT STATE PARK ROUTE 97	MULLENS	WV
SALEM-INTERNATIONAL UN RANDOLPH STUDENT CTR	SALEM	WV
TIGER MORTON JUV CENTER 60 MANFRED HOLLAND WAY	DUNBAR	WV

CURRENT FACILITIES USING DWASH

27

NAME/ADDRESS	CITY	STATE
WESTERN REGIONAL JAIL 1 O'HAULON PLACE	BARBOURSVILLE	WV
KENNEDY CENTER CASE OF WEST VIRGINIA	BLUEFIELD	WV
DONALD R KUHN JUV CENTER 50 LEARNING LANE	JULIAN	WV
WATOGA STATE PARK HC 82 BOX 252	MARLINGTON	WV
HANCOCK COUNTY WORKSHOP 1100 PENNSYLVANIA AVE	WEIRTON	WV
BARBOUR COUNTY VOTECH CTR RR 4, BOX 268	PHILIPPI	WV
GREENBRIER CO COMMISSION ON AGING 1003 GREENBRIER ST	RUPERT	WV
LAKIN CORRECTIONAL FACILITY 11264 OHIO RIVER RD	WEST COLUMBIA	WV
SAND HILL ELEMENTARY RR 1, BOX 87	DALLAS	WV
HOPEMONT STATE HOSPITAL-HS RR 3, BOX 330	TERRA ALTA	WV
WEST VIRGINIA STATE COLLEGE	INSTITUTE	WV
BLUEFIELD STATE COLLEGE 219 ROCK ST	BLUEFIELD	WV
SOUTHERN REGIONAL JAIL 1200 AIRPORT RD	BEAVER	WV

State of West Virginia VENDOR PREFERENCE CERTIFICATE

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

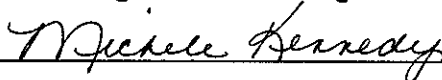
- 1. **Application is made for 2.5% resident vendor preference for the reason checked:**
 Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; **or,**
 Bidder is a partnership, association or corporation 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% resident 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% resident 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% resident 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% resident 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% resident 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.

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: 

Date: 9/8/10

Title: Government Sales Manager

*Check any combination of preference consideration(s) indicated above, which you are entitled to receive.

RFQ No. DWASH10

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: 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 the debt owed is an amount greater than one thousand dollars in the aggregate.

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.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "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.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this 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.

Under penalty of law for false swearing (*West Virginia Code* §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: Ecolab Inc.

Authorized Signature: *Michelle Kennedy* Date: 9/8/10

State of Minnesota

County of Ramsey, to-wit:

Taken, subscribed, and sworn to before me this 8 day of September, 2010.

My Commission expires _____, 20__.



NOTARY PUBLIC *Michelle Kruppa*

SOLID POWER PLUS

1. A 100% active machine dishwashing detergent in a solid capsule equipped with a handle for ease in handling.
2. Contains an active timed-release chlorine system for destaining performance that is exceptionally effective and long lasting.
3. Designed to eliminate misuse by employees, to provide maximum safety and control of detergent usage and costs.
4. Fed and controlled by a system such as the CONTROL MAX.
5. Meets the following specifications:

Appearance.....	Blue solid
Odor.....	None
pH (1%).....	12.5

6. The recommended use dilution ratio is .25 oz. per 10 gallons of water. Use dilution ratios may vary depending on soil load and local water conditions.

Material Safety Data Sheet



SOLID POWER PLUS

Section 1. Chemical product and company identification

Trade name : SOLID POWER PLUS
Product use : Machine Warewashing Detergent
Supplier : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326
Code : 905125-01
Date of issue : 31-July-2008

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

Section 2. Composition, information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
sodium hydroxide	1310-73-2	36
triphosphoric acid, pentasodium salt	7758-29-4	14
sodium carbonate	497-19-8	20 - 50

Section 3. Hazards identification

Physical state : Solid. [Cast Solid]
Emergency overview : WARNING!
CAUSES SEVERE EYE AND SKIN IRRITATION. Untreated contact may cause severe irritation or chemical burns.
CAUSES DIGESTIVE TRACT BURNS.
Do not ingest. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling.

Potential acute health effects

Eyes : Severely irritating to eyes. Untreated contact may cause chemical burns.
Skin : Severely irritating to the skin. Untreated contact may cause severe irritation or chemical burns.
Inhalation : No known significant effects or critical hazards.
Ingestion : Causes burns to mouth, throat and stomach.

See toxicological information (section 11)

Section 4. First aid measures

Eye contact : In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention immediately.
Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation : If inhaled, remove to fresh air.
Ingestion : If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire fighting measures

- Flash point** : > 100°C
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
sulfur oxides
phosphorus oxides
metal oxide/oxides
- Fire-fighting media and instructions** : Use an extinguishing agent suitable for the surrounding fire.

Dike area of fire to prevent runoff.
No specific fire or explosion hazard.
- 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** : Immediately contact emergency personnel. Stop leak if without risk. Use suitable protective equipment. Keep unnecessary personnel away. Do not touch or walk through spilled material.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up** : If emergency personnel are unavailable, vacuum or carefully scoop up spilled material and place in an appropriate container for disposal.

Section 7. Handling and storage

- Handling** : Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
- Storage** : Keep out of the reach of children. Do not allow water to enter container. Keep container tightly closed. Keep container in a cool, well-ventilated area.
Store between the following temperatures: -10 and 50°C

Section 8. Exposure controls/personal protection

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

Personal protection :

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

Name

sodium hydroxide

Exposure limits

ACGIH TLV (United States, 1/2007).

C: 2 mg/m³

OSHA PEL (United States, 11/2006).

TWA: 2 mg/m³ 8 hour(s).

Section 9. Physical and chemical properties

Physical state	: Solid. [Cast Solid]
Color	: Blue. [Light]
Odor	: Faint odor. [Slight]
pH	: 12.5 [Conc. (% w/w): 1%]

Section 10. Stability and reactivity

Stability	: The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
Reactivity	: Extremely reactive or incompatible with the following materials: acids. Highly reactive or incompatible with the following materials: metals. Reactive or incompatible with the following materials: organic materials.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Potential acute health effects

Eyes	: Severely irritating to eyes. Untreated contact may cause chemical burns.
Skin	: Severely irritating to the skin. Untreated contact may cause severe irritation or chemical burns.
Inhalation	: No known significant effects or critical hazards.
Ingestion	: Causes burns to mouth, throat and stomach.

Potential chronic health effects

Target organs	: Contains material which may cause damage to the following organs: lungs, upper respiratory tract.
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Section 12. Ecological information

Section 13. Disposal considerations

Waste disposal	: The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
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Consult your local or regional authorities.

Section 14. Transport information

See shipping documents for specific transportation information.

Section 15. Regulatory information

HCS Classification	: Corrosive material Target organ effects
U.S. Federal regulations	: SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. TSCA 8(b) inventory : All components are listed or exempted.

California Prop. 65 : No products were found.

Section 16. Other informationHazardous Material
Information System (U.S.A.) :

Health	*	2
Flammability		0
Physical hazards		0

Date of issue : 31-July-2008.
Responsible name : Regulatory Affairs
Date of previous issue : 18-July-2006.**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.

RINSE DRY

1. Rinse Dry is a drying chemical surface active agent. When mixed with the final rinse water of a commercial dishwashing machine, it will speed drying, reduce water spotting and filiming, eliminate unsanitary toweling and give better sanitary conditions to dishware.
2. Designed for use in an Ecolab Rinse Injector plumbed into a rinse line and is not corrosive to the dishwashing machine or dishware.
3. Will not cause foaming in the dishwasher.
4. Works in both soft and hard water.
5. Meets the following specifications:

pH 100%	2.701
Cloud Point.....	47.7°C
Specific Gravity @ 68°F.....	1.0153
Haze Point (100% solution).....	4.44°C
Color.....	Green
Alcohol.....	None
Non Toxic	
Non Ionic	

6. The recommended use dilution ratio is .032 oz. per 10 gallons of water. Use dilution ratios may vary depending on soil load and local water conditions.

Material Safety Data Sheet



RINSE DRY

Section 1. Chemical product and company identification

Trade name : RINSE DRY
Product use : Rinse additive
Supplier : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326
Code : 913590
Date of issue : 30-June-2009

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

Section 2. Hazards identification

Physical state : Liquid. [Liquid.]
Emergency overview : CAUTION !

MAY CAUSE EYE IRRITATION.

Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Potential acute health effects

Eyes : Moderately irritating to eyes.
Skin : Slightly irritating to the skin.
Inhalation : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

See toxicological information (section 11)

Section 3. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
alcohols, c10-16, ethoxylated	68002-97-1	1 - 5

Section 4. First aid measures

Eye contact : In case of contact, immediately flush eyes with plenty of water. Remove contact lenses and flush again. Get medical attention if irritation persists.
Skin contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation persists. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation : If inhaled, remove to fresh air.
Ingestion : Do not induce vomiting. Never give anything by mouth to an unconscious person. If irritation persists, get medical attention.

Section 5. Fire-fighting measures

Flash point : > 100°C
Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
Fire-fighting media and instructions : Use an extinguishing agent suitable for the surrounding fire.

Dike area of fire to prevent runoff.

In a fire or if heated, a pressure increase will occur and the container may burst.

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 : Use suitable protective equipment (section 8). Do not allow to enter drains or watercourses.

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up : For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain it to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Section 7. Handling and storage

Handling : Avoid contact with eyes. Wash thoroughly after handling.

Storage : Keep out of reach of children. Keep container in a cool, well-ventilated area. Keep container tightly closed.
Do not store above the following temperature: 50°C

Section 8. Exposure controls/personal protection

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

Personal protection :

Eyes : Eye protection recommended.

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.

Consult local authorities for acceptable exposure limits.

Section 9. Physical and chemical properties

Physical state : Liquid. [Liquid.]

Color : Green. [Light]

Odor : Faint odor.

pH : 2.701 [Conc. (% w/w): 100%]

Relative density : 1.0153

Section 10. Stability and reactivity

Stability : The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Potential acute health effects

Eyes : Moderately irritating to eyes.
 Skin : Slightly irritating to the skin.
 Inhalation : No known significant effects or critical hazards.
 Ingestion : No known significant effects or critical hazards.

Section 12. Ecological information

Ecotoxicity data : Not available.

Section 13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Consult your local or regional authorities.

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.

UN Classification : Not regulated.

See shipping documents for specific transportation information.

Section 15. Regulatory information

HCS Classification : Irritating material

U.S. Federal regulations

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

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

California Prop. 65 : No products were found.

Section 16. Other information

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

Health	1
Flammability	0
Physical hazards	0

Date of issue : 30-June-2009.

Responsible name : Regulatory Affairs

Date of previous issue : 11-August-2006.

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 Specification Document

VICTORY

984484-07

CLASSIFICATION:

Anti-microbial wash for fruits and vegetables

SCOPE:

Fruit and vegetable wash only

DIRECTIONS FOR USE:

1 Oz./ 16.4 gallons 60 to 80 ppm peracetic acid

PRODUCT INFORMATION:

State	Liquid		
Appearance	Clear, colorless, sharp pungent odor (like vinegar)		
Fragrance	None		
pH – conc.	2.8@ 1%	pH – use dilution – 5.5- 7.5	
% P	1%		
Kosher	Yes		
USDA	Yes Log on File		
Conc. Test	Test Strips 56842 Test Kit 57037		
Hazard Rating (HMIS)	Health - # 3	Fire - # 0	Reactivity - # 1

STABILITY & STORAGE:

Shelf life of concentrate: 360 Days

Usage Notes:

Protective equipment needed in case of spills (concentrate only)

Material Safety Data Sheet



VICTORY

Section 1. Chemical product and company identification

Trade name : VICTORY
Product use : Sanitizer.
Supplier : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326
Code : 984484-04
Date of issue : 05-May-2009
EPA Registration No. : 1677-186

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

Section 2. Hazards identification

Physical state : Liquid. [Liquid.]
Emergency overview : DANGER !

CAUSES DIGESTIVE TRACT, EYE AND SKIN BURNS.
HARMFUL IF SWALLOWED. MAY BE FATAL IF SWALLOWED.
CAUSES RESPIRATORY TRACT IRRITATION.
OXIDIZER.
CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE.

Do not ingest. Do not get in eyes, on skin or on clothing. Avoid breathing vapors, spray or mists. Keep only in the original container. Avoid contact with combustible materials. Avoid all possible sources of ignition (spark or flame). Keep away from heat and direct sunlight. Decomposes on heating. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Potential acute health effects

Eyes : Corrosive to eyes.
Skin : Corrosive to the skin.
Inhalation : Severely irritating to the respiratory system.
Ingestion : Harmful if swallowed. May be fatal if swallowed. Causes burns to mouth, throat and stomach.

See toxicological information (section 11)

Section 3. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
ACETIC ACID	64-19-7	31
peracetic acid	79-21-0	15.2
HYDROGEN PEROXIDE	7722-84-1	11.2

Section 4. First aid measures

Eye contact : In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation : If inhaled, remove to fresh air. If exposed person is not breathing, give artificial respiration or oxygen applied by trained personnel. Get medical attention immediately.

Ingestion : If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire-fighting measures

Flash point : 96.1111 °C (Closed cup)
Product does not support combustion.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Fire-fighting media and instructions : Use an extinguishing agent suitable for the surrounding fire.

Use water spray to keep fire-exposed containers cool. Dike area of fire to prevent runoff.
Contact with combustible material may cause fire. This material increases the risk of fire and may aid combustion. In a fire or if heated, a pressure increase will occur and the container may burst.

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 : Immediately contact emergency personnel. Stop leak if without risk. Eliminate all ignition sources. Use suitable protective equipment. Keep unnecessary personnel away. Do not touch or walk through spilled material.

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up : If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For small spills, add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion-proof means to transfer material to a sealable, appropriate container for disposal. For large spills, dike spilled material or otherwise contain it to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Section 7. Handling and storage

Handling : Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe vapor or spray. Avoid contact with combustible materials. Keep container closed. Keep only in the original container. 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 in a cool, well-ventilated area. Keep container tightly closed. Separate from reducing agents and combustible materials.
Store between the following temperatures: -10 and 50°C

Section 8. Exposure controls/personal protection

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

Personal protection :

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

Hands : Use chemical-resistant, impervious gloves.

Skin : Wear suitable protective clothing.

Respiratory : Wear appropriate respirator when ventilation is inadequate and occupational exposure limits are exceeded.

<u>Name</u>	<u>Exposure limits</u>
ACETIC ACID	ACGIH TLV (United States, 1/2008). STEL: 37 mg/m ³ 15 minute(s). STEL: 15 ppm 15 minute(s). TWA: 25 mg/m ³ 8 hour(s). TWA: 10 ppm 8 hour(s). OSHA PEL (United States, 11/2006). TWA: 25 mg/m ³ 8 hour(s). TWA: 10 ppm 8 hour(s).
HYDROGEN PEROXIDE	ACGIH TLV (United States, 1/2008). TWA: 1.4 mg/m ³ 8 hour(s). TWA: 1 ppm 8 hour(s). OSHA PEL (United States, 11/2006). TWA: 1.4 mg/m ³ 8 hour(s). TWA: 1 ppm 8 hour(s).

Section 9. Physical and chemical properties

Physical state	: Liquid. [Liquid.]
Color	: Colorless.
Odor	: Acetic acid.
pH	: 1.8 [Conc. (% w/w): 100%]
Boiling/condensation point	: >100°C (>212°F)
Relative density	: 1.114
Dispersibility properties	: Easily dispersible in the following materials: cold water and hot water.
Solubility	: Easily soluble in the following materials: cold water and hot water.

Section 10. Stability and reactivity

Stability	: The product is stable. Decomposes on heating. Under normal conditions of storage and use, hazardous polymerization will not occur.
Reactivity	: Reactive or incompatible with the following materials: organic materials, metals and alkalis. Do not mix with bleach or other chlorinated products – will cause chlorine gas.
Hazardous decomposition products	: Oxygen
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Potential acute health effects

Eyes	: Corrosive to eyes.
Skin	: Corrosive to the skin.
Inhalation	: Severely irritating to the respiratory system.
Ingestion	: Harmful if swallowed. May be fatal if swallowed. Causes burns to mouth, throat and stomach.

Potential chronic health effects

Target organs	: Contains material which may cause damage to the following organs: upper respiratory tract, teeth.
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Section 12. Ecological information

Ecotoxicity data : Not available.

Section 13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Waste classification : Unused product is D002 (Corrosive)
 Unused product is D001 (Ignitable)

Consult your local or regional authorities.

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.

UN Classification

UN number UN3109
Proper shipping name ORGANIC PEROXIDE TYPE F, LIQUID (Peroxyacetic acid, Type F, stabilized)
Class 5.2 (8)
Packing group -

See shipping documents for specific transportation information.

Section 15. Regulatory information

HCS Classification : Oxidizing material
 Corrosive material
 Target organ effects

U.S. Federal regulations

TSCA 8(b) inventory : All components are listed or exempted.
EPA Registration No. : 1677-186
SARA 302/304/311/312 extremely hazardous substances: Peroxyacetic acid
SARA 302/304 emergency planning and notification: Peroxyacetic acid

SARA 313	Product name	CAS number	Concentration
Form R - Reporting requirements	: peracetic acid	79-21-0	15.2

California Prop. 65 : No products were found.

Section 16. Other information

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

Health	*	3
Flammability		0
Physical hazards		1

Date of issue : 05-May-2009.
Responsible name : Regulatory Affairs
Date of previous issue : 20-July-2006.

Section 16. Other information**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.**

SOLITAIRE

1. Non-abrasive cleaning material suitable for cleaning of all glassware, dishes, pots and pans, silverware, etc.
2. Extra-concentrated solid, dispensed at use concentration through a Solitaire dispenser.
3. Designed for use in all water conditions.
4. Meets the following specifications:

pH 1%.....	8.3
Non volatile @ 105°C.....	89.0-92.0
Density.....	0.85-0.95
The product is freeze/thaw stable..	
Nonionic detergent.....	18-24%
Anionic detergent (active).....	42-46%
Phosphate as P.....	0%
5. Contains hard ABS detergents.
6. When used as recommended by the seller, the product gives washing results which are satisfactory as judged by the responsible head of each department where used. High sudsing and more highly concentrated than other manual detergents therefore, only 1/4 to 1/6 as much product is used.
7. The recommended use dilution ratio is .25 oz. per 10 gallons of water. Use dilution ratios may vary depending on soil load and local water conditions.

Material Safety Data Sheet



SOLITAIRE

Section 1. Chemical product and company identification

Trade name : SOLITAIRE
Product use : Manual Warewashing Detergent
Supplier : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326
Code : 975888
Date of issue : 25-January-2008

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

Section 2. Composition, information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
sodium dodecylbenzene sulfonate	25155-30-0	31
dodecanamide, n-(2-hydroxyethyl)-	142-78-9	5 - 20
poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, c10-16-alkyl ethers, sodium salts	68585-34-2	5 - 20
amides, coco, n-[3-(dimethylamino)propyl], n-oxides	68155-09-9	5 - 20
acetic acid, sodium salt	127-09-3	1 - 5
ethanol	64-17-5	1 - 5

Section 3. Hazards identification

Physical state : Solid.
Emergency : CAUTION !
overview : MAY BE HARMFUL IF SWALLOWED.
MAY CAUSE EYE AND SKIN IRRITATION.
Do not ingest. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Potential acute health effects

Eyes : Moderately irritating to eyes.
Skin : Moderately irritating to the skin.
Inhalation : No known significant effects or critical hazards.
Ingestion : May be harmful if swallowed.

See toxicological information (section 11)

Section 4. First aid measures

Eye contact : In case of contact, immediately flush eyes with plenty of water. Remove contact lenses and flush again. Get medical attention if irritation persists.
Skin contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation persists. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation : If inhaled, remove to fresh air.
Ingestion : Rinse mouth; then drink one or two large glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire fighting measures

- Flash point** : > 100°C
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon oxides
nitrogen oxides
sulfur oxides
metal oxide/oxides
- Fire-fighting media and instructions** : Use an extinguishing agent suitable for the surrounding fire.

Dike area of fire to prevent runoff.
No specific fire or explosion hazard.
- 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** : Use suitable protective equipment (section 8). Do not allow to enter drains or watercourses.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up** : Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Avoid creating dusty conditions and prevent wind dispersal.

Section 7. Handling and storage

- Handling** : Do not ingest. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
- Storage** : Keep out of reach of children. Keep container in a cool, well-ventilated area. Keep container tightly closed.
Do not store above the following temperature: 50°C

Section 8. Exposure controls, personal protection

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

Personal protection :

- Eyes** : Eye protection recommended.
- Hands** : For prolonged or repeated handling, use the following type of gloves: Impervious gloves.
- Skin** : No protective equipment is needed under normal use conditions.
- Respiratory** : A respirator is not needed under normal and intended conditions of product use.

Name

ethanol

Exposure limits

ACGIH TLV (United States, 1/2007).
TWA: 1880 mg/m³ 8 hour(s).
TWA: 1000 ppm 8 hour(s).
OSHA PEL (United States, 11/2006).
TWA: 1900 mg/m³ 8 hour(s).
TWA: 1000 ppm 8 hour(s).

Section 9. Physical and chemical properties

- Physical state** : Solid.
- Color** : pink [Light]
- Odor** : citrus
- pH** : 8.3 [Conc. (% w/w): 1%]
- Solubility** : Soluble in cold water, hot water.

Section 10. Stability and reactivity

- Stability** : The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
- Reactivity** : Reactive with oxidizing agents.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Hazardous polymerization** : Will not occur.

Section 11. Toxicological information

Potential acute health effects

- Eyes** : Moderately irritating to eyes.
- Skin** : Moderately irritating to the skin.
- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : May be harmful if swallowed.

Potential chronic health effects

- Target organs** : Contains material which may cause damage to the following organs: upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

Section 12. Ecological information

Section 13. Disposal considerations

- Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Consult your local or regional authorities.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Additional information
DOT Classification	Not regulated.	-	-	-	Not available.

APPLIES ONLY DURING ROAD TRANSPORT

Any variation of the shipping description based on the packaging is not addressed.

Section 15. Regulatory information

- HCS Classification** : Irritating material
Target organ effects
- U.S. Federal regulations** : **United States inventory (TSCA 8b)**: All components are listed or exempted.
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
- California Prop. 65** : No products were found.

Section 16. Other information

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

Health	*	1
Flammability		0
Physical hazards		0

Date of issue : 25-January-2008.
Responsible name : Regulatory Affairs
Date of previous issue : 18-July-2006.

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 SILVER POWER

1. A 100% active solid presoak in a solid capsule equipped with a handle for ease in handling.
2. Contains active enzymes to break down stubborn food soils.
3. Metal safe and detarnishes silver and eliminates stainless steel haze.
4. Fed and controlled by a system to dispense the exact amount of presoak needed for soak tanks or bus pans of any size.
5. Meets the following specifications:

pH (1%).....	10.5
Enzymes (Protease).....	10,000 to 20,000 units per gram
Appearance and odor.....	Blue Solid
Phosphate as P.....	Less than 8.7%
Active Alkalinity.....	6.0-9.5%
Biodegradable.....	Yes
Wetting Agents.....	3.5-6.0%
Total Alkalinity.....	16.0-21.0%
Non-Phosphate Water Conditioners.....	Present

6. The recommended use dilution ratio is .5 oz. per 10 gallons of water. Use dilution ratios may vary depending on soil load and local water conditions.

Material Safety Data Sheet

ECOLAB®

SILVER POWER

Section 1. Chemical product and company identification

Trade name : SILVER POWER
Product use : Presoak
Supplier : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326
Code : 961870
Date of issue : 04-June-2009

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

Section 2. Hazards identification

Physical state : Solid. [Cast Solid]
Emergency overview : CAUTION !

MAY CAUSE EYE AND SKIN IRRITATION.
Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Potential acute health effects

Eyes : Moderately irritating to eyes.
Skin : Moderately irritating to the skin.
Inhalation : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

See toxicological information (section 11)

Section 3. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
SODIUM CARBONATE	497-19-8	>50
alcohols, c12-16, ethoxylated	68551-12-2	1 - 5
TRISODIUM HEDTA	139-89-9	1 - 5

Section 4. First aid measures

Eye contact : In case of contact, immediately flush eyes with plenty of water. Remove contact lenses and flush again. Get medical attention if irritation persists.
Skin contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation persists. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation : If inhaled, remove to fresh air.
Ingestion : Do not induce vomiting. Never give anything by mouth to an unconscious person. If irritation persists, get medical attention.

Section 5. Fire-fighting measures

Flash point : > 100°C
Product does not support combustion.
Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
metal oxide/oxides

Fire-fighting media and instructions : Use an extinguishing agent suitable for the surrounding fire.

Dike area of fire to prevent runoff.

No specific fire or explosion hazard.

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 : Use suitable protective equipment (section 8). Do not allow to enter drains or watercourses.

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up : Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container.

Section 7. Handling and storage

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

Storage : Keep out of reach of children. Keep container in a cool, well-ventilated area. Keep container tightly closed.

Do not store above the following temperature: 40°C

Section 8. Exposure controls/personal protection

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

Personal protection :

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 : No protective equipment is needed under normal use conditions.

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

Consult local authorities for acceptable exposure limits.

Section 9. Physical and chemical properties

Physical state : Solid. [Cast Solid]

Color : Blue. [Dark]

Odor : citrus

pH : 10.5 [Conc. (% w/w): 1%]

Dispersibility properties : Easily dispersible in the following materials: cold water and hot water.

Solubility : Easily soluble in the following materials: cold water and hot water.

Section 10. Stability and reactivity

Stability : The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.

Reactivity : Slightly reactive or incompatible with the following materials: acids.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Potential acute health effects

Eyes : Moderately irritating to eyes.
 Skin : Moderately irritating to the skin.
 Inhalation : No known significant effects or critical hazards.
 Ingestion : No known significant effects or critical hazards.

Section 12. Ecological information

Ecotoxicity data : Not reported

Section 13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Consult your local or regional authorities.

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.

UN Classification : Not regulated.

See shipping documents for specific transportation information.

Section 15. Regulatory information

HCS Classification : Irritating material

U.S. Federal regulations

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

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

California Prop. 65 : No products were found.

Section 16. Other information

Hazardous Material Information System (U.S.A.)	Health	1
	Flammability	0
	Physical hazards	0

Date of issue : 04-June-2009.

Responsible name : Regulatory Affairs

Date of previous issue : 18-July-2006.

Notice to reader

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JET DRY

1. Designed specifically for use in an Ecolab rinse injector mechanism and is not corrosive to this mechanism, the spray type warewashing machine, or the utensils to be washed in the machine. When properly proportioned and mixed with the final rinse water of a commercial dishwashing machine, it will speed drying, reduce water spotting and filming, eliminate the need for expensive mechanical air drying or unsanitary toweling and give better sanitary conditions to eating utensils washed in the dishwashing machine.
2. Does not contribute to foaming in the dishwashing machine and has a foam depressing effect on food soil.
3. Jet Dry is a concentrated liquid of non-ionic nature, free-flowing at ordinary room temperatures.
4. Performs satisfactorily in soft or hard water areas when optimal operating conditions are present.
5. Meets the following specifications:

pH of a 100% solution.....	2.61
Cloud Point (100%).....	118-128°F
Specific Gravity @ 68°F.....	1.01
Haze Point (100%).....	4.44°C
Biodegradable.....	Yes
USDA.....	Yes
Phosphorus.....	None
Color.....	Green
6. The recommended use dilution ratio is .064 oz. per 10 gallons of water. Use dilution ratios may vary depending on soil load and local water conditions.

Material Safety Data Sheet



JET DRY

Section 1. Chemical product and company identification

Trade name : JET DRY
Product use : Rinse additive
Supplier : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326
Code : 914598-01
Date of issue : 24-June-2009

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

Section 2. Hazards identification

Physical state : Liquid. [Liquid.]
Emergency overview : CAUTION !

MAY CAUSE EYE IRRITATION.
Avoid contact with eyes. Wash thoroughly after handling.

Potential acute health effects

Eyes : Slightly irritating to the eyes.
Skin : Slightly irritating to the skin.
Inhalation : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

See toxicological information (section 11)

Section 3. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
alcohols, c10-16, ethoxylated	68002-97-1	1 - 5

Section 4. First aid measures

Eye contact : In case of contact, immediately flush eyes with plenty of water. Remove contact lenses and flush again. Get medical attention if irritation persists.
Skin contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation persists. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation : If inhaled, remove to fresh air.
Ingestion : Do not induce vomiting. Never give anything by mouth to an unconscious person. If irritation persists, get medical attention.

Section 5. Fire-fighting measures

Flash point : > 100°C
Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
Fire-fighting media and instructions : Use an extinguishing agent suitable for the surrounding fire.

Dike area of fire to prevent runoff.
In a fire or if heated, a pressure increase will occur and the container may burst.

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 : Use suitable protective equipment (section 8). Do not allow to enter drains or watercourses.

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up : For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain it to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Section 7. Handling and storage

Handling : Avoid contact with eyes. Wash thoroughly after handling.

Storage : Keep out of reach of children. Keep container in a cool, well-ventilated area. Keep container tightly closed.
Do not store above the following temperature: 50°C

Section 8. Exposure controls/personal protection

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

Personal protection :

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

Consult local authorities for acceptable exposure limits.

Section 9. Physical and chemical properties

Physical state : Liquid. [Liquid.]

Color : Green. [Dark]

Odor : Odorless.

pH : 2.61 [Conc. (% w/w): 100%]

Relative density : 1.01

Section 10. Stability and reactivity

Stability : The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Potential acute health effects

Eyes : Slightly irritating to the eyes.
 Skin : Slightly irritating to the skin.
 Inhalation : No known significant effects or critical hazards.
 Ingestion : No known significant effects or critical hazards.

Section 12. Ecological information

Ecotoxicity data : Not available.

Section 13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Consult your local or regional authorities.

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.

UN Classification : Not regulated.

See shipping documents for specific transportation information.

Section 15. Regulatory information

HCS Classification : Not regulated.

U.S. Federal regulations

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

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

California Prop. 65 : No products were found.

Section 16. Other information

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

Health	1
Flammability	0
Physical hazards	0

Date of issue : 24-June-2009.

Responsible name : Regulatory Affairs

Date of previous issue : 11-August-2006.

Notice to reader

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SOLID POWER

1. A 100% active machine dishwashing detergent in a solid capsule equipped with a handle for ease in handling.
2. Contains water conditioners, a defoamer and maximum strength alkalies to deliver maximum performance in all soil and water conditions.
3. Designed to eliminate misuse by employees, to provide maximum safety and control of detergent usage and costs.
4. Fed and controlled by a system such as the POWER ACTIVATOR.
5. Contains phosphate and non-phosphate water conditioners.
6. Meets the following specifications:

Defoamers.....	0.5-1.5%
Active Alkalinity as Na ₂ O.....	30.00-40.00%
Total Titratable Alkalinity as Na ₂ O.....	36.00-46.00%
Phosphate as P.....	Less than 8.7%
Carbonate as CO ₂	Trace
Biodegradable.....	Yes
7. The recommended use dilution ratio is .5 oz. per 10 gallons of water. Use dilution ratios may vary depending on soil load and local water conditions.

Material Safety Data Sheet

ECOLAB®

SOLID POWER

Section 1. Chemical product and company identification

Trade name : SOLID POWER
Product use : Machine Warewashing Detergent
Supplier : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326
Code : 949008
Date of issue : 25-August-2008

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

Section 2. Composition, information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
sodium hydroxide	1310-73-2	36
triphosphoric acid, pentasodium salt	7758-29-4	14
sodium carbonate	497-19-8	20 - 50

Section 3. Hazards identification

Physical state : Solid. [Cast Solid]
Emergency : WARNING!
overview : CAUSES SEVERE EYE AND SKIN IRRITATION. Untreated contact may cause severe irritation or chemical burns.
MAY BE HARMFUL IF SWALLOWED.
May cause burns to mouth, throat and stomach.
Do not ingest. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling.

Potential acute health effects

Eyes : Severely irritating to eyes. Untreated contact may cause chemical burns.
Skin : Severely irritating to the skin. Untreated contact may cause severe irritation or chemical burns.
Inhalation : No known significant effects or critical hazards.
Ingestion : May be harmful if swallowed. Causes burns to mouth, throat and stomach.

See toxicological information (section 11)

Section 4. First aid measures

Eye contact : In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention immediately.
Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation : If inhaled, remove to fresh air.
Ingestion : If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire fighting measures

- Flash point** : > 100°C
Product does not support combustion.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
sulfur oxides
phosphorus oxides
metal oxide/oxides
- Fire-fighting media and instructions** : Use an extinguishing agent suitable for the surrounding fire.

Dike area of fire to prevent runoff.
No specific fire or explosion hazard.
- 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** : Immediately contact emergency personnel. Stop leak if without risk. Use suitable protective equipment. Keep unnecessary personnel away. Do not touch or walk through spilled material.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up** : If emergency personnel are unavailable, vacuum or carefully scoop up spilled material and place in an appropriate container for disposal.

Section 7. Handling and storage

- Handling** : Do not ingest. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.
- Storage** : Keep out of the reach of children. Do not allow water to enter container. Keep container tightly closed. Keep container in a cool, well-ventilated area.
Store between the following temperatures: -10 and 50°C

Section 8. Exposure controls/personal protection

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

Personal protection :

- 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.

Name

sodium hydroxide

Exposure limits

ACGIH TLV (United States, 1/2008).

C: 2 mg/m³

OSHA PEL (United States, 11/2006).

TWA: 2 mg/m³ 8 hour(s).

Section 9. Physical and chemical properties

Physical state	: Solid. [Cast Solid]
Color	: Blue. [Light]
Odor	: Faint odor.
pH	: 12 to 13 [Conc. (% w/w): 1%]
Solubility	: Easily soluble in the following materials: cold water and hot water.

Section 10. Stability and reactivity

Stability	: The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
Reactivity	: Extremely reactive or incompatible with the following materials: acids. Highly reactive or incompatible with the following materials: metals. Reactive or incompatible with the following materials: organic materials and moisture.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Potential acute health effects

Eyes	: Severely irritating to eyes. Untreated contact may cause chemical burns.
Skin	: Severely irritating to the skin. Untreated contact may cause severe irritation or chemical burns.
Inhalation	: No known significant effects or critical hazards.
Ingestion	: May be harmful if swallowed. Causes burns to mouth, throat and stomach.

Potential chronic health effects

Target organs	: Contains material which may cause damage to the following organs: lungs, upper respiratory tract.
---------------	---

Section 12. Ecological information

Section 13. Disposal considerations

Waste disposal	: The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
----------------	--

Consult your local or regional authorities.

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.

UN Classification

UN number	UN1759
Proper shipping name	CORROSIVE SOLIDS, N.O.S. (Contains Sodium hydroxide)
Class	8
Packing group	III

See shipping documents for specific transportation information.

Section 15. Regulatory information

HCS Classification : Corrosive material
 Target organ effects

U.S. Federal regulations : SARA 302/304/311/312 extremely hazardous substances: No products were found.
 SARA 302/304 emergency planning and notification: No products were found.
 TSCA 8(b) inventory : All components are listed or exempted.

California Prop. 65 : No products were found.

Section 16. Other information

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

Health	*	2
Flammability		0
Physical hazards		0

Date of issue : 25-August-2008.
 Responsible name : Regulatory Affairs
 Date of previous issue : 15-August-2005.

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.



ULTRA KLENE

1. A liquid non-chlorinated warewashing detergent.
2. Designed for use in Automatic Dispensing Systems supplied by Ecolab Inc.
3. Meets the following specifications:

pH (100%).....	13.5
Specific Gravity @ 68°F.....	1.275
Total Alkalinity (Titratable) as Na ₂ O.....	22.0-26.0
% Phosphorus.....	None
Organic Sequestering Agents.....	Yes
Visual Appearance.....	Clear red liquid
Biodegradable.....	Yes - 100%
Freezing Point.....	Less than 17°C, 0°F
USDA.....	Authorized
4. The recommended use dilution ratio is .75 oz. per 10 gallons of water. Use dilution ratios may vary depending on soil load and local water conditions.

Material Safety Data Sheet



ECOTEMP ULTRA KLENE

Section 1. Chemical product and company identification

Trade name : ECOTEMP ULTRA KLENE
Product use : Machine Warewashing Detergent
Supplier : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326
Code : 986216-02
Date of issue : 29-October-2008

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

Section 2. Composition, information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
water	7732-18-5	20 - 50
sodium hydroxide	1310-73-2	23
1,2,4-butanetricarboxylic acid, 2-phosphono-, sodium salt	40372-66-5	1 - 5
2-prenopenc acid, homopolymer, sodium salt	9003-04-7	1 - 5

Section 3. Hazards identification

Physical state : Liquid. [Liquid.]
Emergency overview : DANGER !
CAUSES DIGESTIVE TRACT, EYE AND SKIN BURNS.
CAUSES RESPIRATORY TRACT IRRITATION.
MAY BE HARMFUL IF SWALLOWED.
Do not ingest. Do not get in eyes, on skin or on clothing. Avoid breathing vapors, spray or mists. Use only with adequate ventilation. Keep container closed. Wash thoroughly after handling.

Potential acute health effects

Eyes : Corrosive to eyes.
Skin : Corrosive to the skin.
Inhalation : Severely irritating to the respiratory system.
Ingestion : Causes burns to mouth, throat and stomach. May be harmful if swallowed.

See toxicological information (section 11)

Section 4. First aid measures

Eye contact : In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation : If inhaled, remove to fresh air. If exposed person is not breathing, give artificial respiration or oxygen applied by trained personnel. Get medical attention immediately.

Ingestion : If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire fighting measures

- Flash point** : > 100°C
Product does not support combustion.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
phosphorus oxides
metal oxide/oxides
- Fire-fighting media and instructions** : Use an extinguishing agent suitable for the surrounding fire.

Dike area of fire to prevent runoff.
In a fire or if heated, a pressure increase will occur and the container may burst.
- 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** : Immediately contact emergency personnel. Stop leak if without risk. Use suitable protective equipment. Keep unnecessary personnel away. Do not touch or walk through spilled material.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up** : If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain it to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Section 7. Handling and storage

- Handling** : Do not ingest. Do not get in eyes, on skin or on clothing. Keep container closed. Do not allow water to enter container. Use only with adequate ventilation. Do not breathe vapor or mist. Wash thoroughly after handling. Do not add water directly to product. Slowly stir product into water.
SAFETY REMINDER:
* Never pour product into unlabeled containers
* Use only for recommended uses. Read label.
* Never take product home. Use only in workplace.
- Storage** : Keep out of reach of children. Keep container in a cool, well-ventilated area. Keep container tightly closed.
Do not store above the following temperature: 50°C

Section 8. Exposure controls/personal protection

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

Personal protection :

- 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** : Wear appropriate respirator when ventilation is inadequate and occupational exposure limits are exceeded.

Name

Exposure limits

Class 8

Packing group II

See shipping documents for specific transportation information.

Section 15. Regulatory information

HCS Classification : Corrosive material
 Target organ effects

U.S. Federal regulations : SARA 302/304/311/312 extremely hazardous substances: No products were found.
 SARA 302/304 emergency planning and notification: No products were found.
 TSCA 8(b) inventory : All components are listed or exempted.

California Prop. 65 : No products were found.

Section 16. Other information

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

Health	*	3
Flammability		0
Physical hazards		0

Date of issue : 29-October-2008.
 Responsible name : Regulatory Affairs
 Date of previous issue : 25-September-2008.

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.

GREASESTRIP PLUS

1. An alkaline cleaning gel capable of clinging to vertical surfaces. Its primary intended use is removal of burnt on and baked on food soils.
2. Applied by means of a spray gun. The spray gun is provided separately for attachment to the one gallon jug.
3. Biodegradable and free of phosphorous.
4. Designed to reduce misting, fumes and flashback for ease of use.
5. Free of butyls (ethylene glycol monobutyl ether).
6. Not to be used on aluminum and painted surfaces.
7. Contains ingredients to prohibit blackening of stainless steel.
8. Meets the following specifications:

Viscosity.....	250-350 cps
pH 100%.....	13.5
Active Alkalinity as Na ₂ O.....	5.8-7.1
Active Ingredients.....	12.5%
Color.....	Dark Red
Appearance.....	Viscous Gel
Flammability.....	Non-Flammable
Specific Gravity.....	1.08
USDA.....	Approved

9. Product is used full strength.

Material Safety Data Sheet



GREASESTRIP PLUS

Section 1. Chemical product and company identification

Trade name : GREASESTRIP PLUS
Product use : Degreaser
Supplier : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326
Code : 905117
Date of issue : 06-November-2008

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

Section 2. Composition, information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
sodium hydroxide	1310-73-2	6

Section 3. Hazards identification

Physical state : Liquid.
Emergency overview : DANGER !
CAUSES DIGESTIVE TRACT, EYE AND SKIN BURNS.
CAUSES RESPIRATORY TRACT IRRITATION.
Do not ingest. Do not get in eyes, on skin or on clothing. Do not breathe vapor or spray.
Use only with adequate ventilation. Keep container closed. Wash thoroughly after handling.

Potential acute health effects

Eyes : Corrosive to eyes.
Skin : Corrosive to the skin.
Inhalation : Severely irritating to the respiratory system.
Ingestion : Causes burns to mouth, throat and stomach.

See toxicological information (section 11)

Section 4. First aid measures

Eye contact : In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention immediately.
Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation : If inhaled, remove to fresh air. If exposed person is not breathing, give artificial respiration or oxygen applied by trained personnel. Get medical attention immediately.
Ingestion : If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire fighting measures

Flash point : > 100°C
Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
metal oxide/oxides
:

Fire-fighting media and instructions

Use an extinguishing agent suitable for the surrounding fire.

Dike area of fire to prevent runoff.

In a fire or if heated, a pressure increase will occur and the container may burst.

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** : Immediately contact emergency personnel. Stop leak if without risk. Use suitable protective equipment. Keep unnecessary personnel away. Do not touch or walk through spilled material.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up** : If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain it to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Section 7. Handling and storage

- Handling** : Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe vapor or spray. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
- Storage** : Keep out of reach of children. Keep container in a cool, well-ventilated area. Keep container tightly closed.
Do not store above the following temperature: 50°C

Section 8. Exposure controls/personal protection

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

Personal protection :

- 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** : Wear appropriate respirator when ventilation is inadequate and occupational exposure limits are exceeded.

Name

Sodium hydroxide

Exposure limits

ACGIH TLV (United States, 9/2004).

CEIL: 2 mg/m³ Form: All forms

2-Aminoethanol

ACGIH TLV (United States, 9/2004).

STEL: 15 mg/m³ 15 minute(s). Form: All forms

STEL: 6 ppm 15 minute(s). Form: All forms

TWA: 7.5 mg/m³ 8 hour(s). Form: All forms

TWA: 3 ppm 8 hour(s). Form: All forms

Section 9. Physical and chemical properties

Physical state	: Liquid.
Color	: Orange. [Dark]
Odor	: Odorless.
pH	: 13.5 [Conc. (% w/w): 100%]
Relative density	: 1.08
Dispersibility properties	: Easily dispersible in the following materials: cold water and hot water.
Solubility	: Easily soluble in the following materials: cold water and hot water.

Section 10. Stability and reactivity

Stability	: The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
Reactivity	: Extremely reactive or incompatible with the following materials: acids. Reactive or incompatible with the following materials: metals.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Potential acute health effects

Eyes	: Corrosive to eyes.
Skin	: Corrosive to the skin.
Inhalation	: Severely irritating to the respiratory system.
Ingestion	: Causes burns to mouth, throat and stomach.

Potential chronic health effects

Target organs	: Contains material which may cause damage to the following organs: lungs, upper respiratory tract.
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Section 12. Ecological information

Section 13. Disposal considerations

Waste disposal	: The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
Waste classification	: Unused product is D002 (Corrosive)
Consult your local or regional authorities.	

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.

UN Classification

UN number	UN1824
Proper shipping name	SODIUM HYDROXIDE SOLUTION
Class	8

Packing group

II

See shipping documents for specific transportation information.

Section 15. Regulatory information

HCS Classification : Corrosive material
Target organ effects

U.S. Federal regulations : SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
TSCA 8(b) inventory : All components are listed or exempted.

California Prop. 65 : No products were found.

Section 16. Other information

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

Health	*	3
Flammability		0
Physical hazards		0

Date of issue : 06-November-2008.
Responsible name : Regulatory Affairs
Date of previous issue : 08-July-2008.

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.

LIME-A-WAY

1. Non-abrasive liquid acid detergent suitable for de-liming and stain removal from metal, glass, ceramic, and tile or cement surfaces.
2. Designed for use in all water conditions.
3. Used to de-lime interior of dish machines and is also a multi purpose cleaner.
4. Meets the following specifications:

Nonionic (active Synthetic Detergent).....	1-3%
Vehicles and Buffering Agents.....	40-65%
Phosphate as P.....	Less than 8.7%
Specific Gravity.....	1.132-1.162
Color.....	Clear, emerald green
Biodegradable.....	Yes
USDA.....	Approved
5. The recommended use dilution ratio is 5 oz. per 10 gallons of water. Use dilution ratios may vary depending on soil load and local water conditions.

Material Safety Data Sheet



LIME-A-WAY

Section 1. Chemical product and company identification

Trade name : LIME-A-WAY
Product use : Delimer
Supplier : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326
Code : 913153
Date of issue : 31-August-2009

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

Section 2. Hazards identification

Physical state : Liquid. [Liquid.]
Emergency overview : DANGER !

CAUSES DIGESTIVE TRACT, EYE AND SKIN BURNS.
CAUSES RESPIRATORY TRACT IRRITATION.
MAY BE HARMFUL IF SWALLOWED.

Do not ingest. Do not get in eyes, on skin or on clothing. Avoid breathing vapors, spray or mists. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Potential acute health effects

Eyes : Corrosive to eyes.
Skin : Corrosive to the skin.
Inhalation : Severely irritating to the respiratory system.
Ingestion : Causes burns to mouth, throat and stomach. May be harmful if swallowed.

See toxicological information (section 11)

Section 3. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
uronium hydrogen sulphate	21351-39-3	20 - 50
UREA	57-13-6	1 - 5

Section 4. First aid measures

Eye contact : In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation : If inhaled, remove to fresh air. If exposed person is not breathing, give artificial respiration or oxygen applied by trained personnel. Get medical attention immediately.

Ingestion : If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire-fighting measures

- Flash point : > 100°C
- Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides
- Fire-fighting media and instructions : Use an extinguishing agent suitable for the surrounding fire.

Dike area of fire to prevent runoff.
- 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.

In a fire or if heated, a pressure increase will occur and the container may burst.

Section 6. Accidental release measures

- Personal precautions : Immediately contact emergency personnel. Stop leak if without risk. Use suitable protective equipment. Keep unnecessary personnel away. Do not touch or walk through spilled material.
- Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up : If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain it to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Section 7. Handling and storage

- Handling : Do not ingest. Do not get in eyes, on skin, or on clothing. Do not mix with bleach or other chlorinated products – will cause chlorine gas. Do not breathe vapor or spray. Use only with adequate ventilation. Keep container closed. Wash thoroughly after handling.
- Storage : Keep out of reach of children. Keep container in a cool, well-ventilated area. Keep container tightly closed.
Do not store above the following temperature: 50°C

Section 8. Exposure controls/personal protection

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

Personal protection :

- 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 : Wear appropriate respirator when ventilation is inadequate and occupational exposure limits are exceeded.

Consult local authorities for acceptable exposure limits.

Section 9. Physical and chemical properties

Physical state	: Liquid. [Liquid.]
Color	: Green. [Dark]
Odor	: Odorless.
pH	: 1.8 to 1.9 [Conc. (% w/w): 100%]
Boiling/condensation point	: 100°C (212°F)
Relative density	: 1.132 to 1.162
Solubility	: Easily soluble in the following materials: cold water and hot water.

Section 10. Stability and reactivity

Stability	: The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
Reactivity	: Highly reactive or incompatible with the following materials: alkalis. 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.
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Potential acute health effects

Eyes	: Corrosive to eyes.
Skin	: Corrosive to the skin.
Inhalation	: Severely irritating to the respiratory system.
Ingestion	: Causes burns to mouth, throat and stomach. May be harmful if swallowed.

Section 12. Ecological information

Ecotoxicity data	: Not reported
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Section 13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Waste classification : Unused product is D002 (Corrosive)

Consult your local or regional authorities.

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.

UN Classification

UN number	UN3265
Proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (uronium hydrogen sulphate)
Class	8
Packing group	III

See shipping documents for specific transportation information.

Section 15. Regulatory information

HCS Classification : Corrosive material
Target organ effects

U.S. Federal regulations

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

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

California Prop. 65 : No products were found.

Section 16. Other information

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

Health	*	3
Flammability		0
Physical hazards		0

Date of issue : 31-August-2009.

Responsible name : Regulatory Affairs

Date of previous issue : 21-May-2009.

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 Specification Document

Oasis 146 Multi-Quat Sanitizer

910787

CLASSIFICATION:

Quat sanitizer

SCOPE:

Disinfectant - Cleaner - Sanitizer - Deodorizer with Organic Soil Tolerance for Hospitals, Institutional and Industrial Use Institutions - Hospitals - Nursing Homes - Health Care Facilities - Schools - Restaurants - Food Services

DIRECTIONS FOR USE:

Oasis 146 Multi-Quat Sanitizer can be used to sanitize hard, non-porous food contact surfaces such as tables, counters, and food processing equipment.

Oasis 146 Multi-Quat Sanitizer is an effective sanitizer against *Escherichia coli* and *Staphylococcus aureus* on food contact surfaces when used at 0.25 oz.-0.67 oz. per 1 gallon of 400 ppm hard water (150 ppm to 400 ppm active quat).

Oasis 146 Multi-Quat Sanitizer is an effective sanitizer against *Escherichia coli*, *Staphylococcus aureus*, *Campylobacter jejuni*, *Escherichia coli* O157:H7, *Klebsiella pneumoniae*, *Listeria monocytogenes*, *Salmonella choleraesuis*, *Shigella sonnei*, *Yersinia enterocolitica* and *Enterobacter sakazakii* on food contact surfaces when used at 0.32 oz.-0.67 oz. per 1 gallon of 500 ppm hard water (200 ppm to 400 ppm active quat).

Sanitizing Equipment - (Food Processing Plants or Restaurants): For sanitizing pre-cleaned food processing equipment or utensils in federally inspected meat and poultry processing plants or restaurants. Prior to application, remove gross food particles and soil by a pre-flush, pre-scrape or when necessary, a pre-soak. Then thoroughly wash or flush objects with a good detergent or compatible cleaner followed by a potable water rinse before application of the sanitizing solution. Apply a use-solution of 1 oz. to 2.67 oz. of *Oasis 146 Multi-Quat Sanitizer* per 4 gallons of 400 ppm hard water (150-400 ppm active quat) or 1.25 oz. to 2.67 oz. *Oasis 146 Multi-Quat Sanitizer* per 4 gallons of 500 ppm hard water (200-400 ppm active quat). Expose all surfaces to the sanitizing solution for a period of not less than 1 minute. Allow equipment to drain thoroughly and air dry. In restaurants in Wisconsin, clean equipment with a good detergent and follow with a potable water rinse, then rinse equipment with a sanitizing solution of 1.25 oz. to 2.67 oz. of *Oasis 146 Multi-Quat Sanitizer* per 4 gallons of 500 ppm hard water (200-400 ppm active quat).

Restaurant and Bar Rinse - Sanitizing Eating and Drinking Utensils

1. Scrape and pre-flush utensils to remove excess soil.
2. Wash with good detergent or compatible cleaner (see your Ecolab representative for a recommendation).
3. Rinse with potable water.
4. Sanitize in a solution of 0.25 oz.-0.67 oz. of *Oasis 146 Multi-Quat Sanitizer* to 1 gallon of 400 ppm water (150-400 ppm active quat). In Wisconsin, sanitize in a solution of 0.32 oz.-0.67 oz. *Oasis 146 Multi-Quat Sanitizer* to 1 gallon of 500 ppm water (200-400 ppm active quat). Immerse all utensils for at least 1 minute. Use 2 minutes exposure time if required by governing sanitary code.
5. Drain and air dry.

Sanitizing - Non-Porous Gloved Hands: To prevent the spreading of harmful organisms into animal areas and the packaging and storage areas of food plants, dip pre-washed (plastic, latex or other synthetic rubber) gloved hands into a suitable clean container that contains enough freshly made sanitizing solution to cover the gloved area. **Do not let sanitizing solution come in contact with exposed skin.** Make up the sanitizing solution by adding 1 to 2.67 ounces of product per 4 gallons of water (or equivalent use dilution) (150-400 ppm active quat). Dip (soak) in solution for 60 seconds. No potable water rinse is allowed. Change the sanitizing solution in the bath at least daily or when solution appears dirty.

NOTE: FOR MECHANICAL OPERATIONS: A prepared use solution may not be reused for sanitizing, but may be reused for other purposes such as cleaning.

FOR MANUAL OPERATIONS: Prepare a fresh sanitizing solution as soon as it becomes diluted or soiled.

DO NOT MIX WITH ANYTHING BUT WATER

HOSPITAL DISINFECTION DIRECTIONS

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Apply *Oasis 146 Multi-Quat Sanitizer* with a cloth, mop or mechanical spray device. When applied with a mechanical spray device, surface must be sprayed until thoroughly wetted. Fresh solution should be prepared daily or when the use solution becomes visibly dirty. This product can be used to disinfect floors, walls, countertops, bathtubs, lavatories, bed-frames, tables, chairs, garbage pails and other hard, nonporous surfaces in health care institutions. To disinfect, add 1.0 oz. *Oasis 146 Multi-Quat Sanitizer* per 1 gallon of water (8 mL/L). For heavily soiled areas, a pre-cleaning step is required. Treated surfaces must remain wet for 10 minutes. Remove solution with a clean mop, cloth, or wet vacuum pickup or allow to air dry. Prepare fresh solution at least daily or when use solution becomes visibly dirty. At this use level, *Oasis 146 Multi-Quat Sanitizer* is effective against *Pseudomonas aeruginosa*, *Staphylococcus aureus* and *Salmonella choleraesuis* in the presence of 5% blood serum when evaluated by the AOAC Use-Dilution test. This product is not for use on medical device surfaces.

GENERAL DISINFECTION: At 1.0 oz. per 1 gallon of water, this product is an effective general disinfectant that can be used to disinfect floors, walls, woodwork, sink tops, garbage pails, telephones, rest rooms, bathroom fixtures, and other hard, nonporous surfaces. Remove gross filth or heavy soil and pre-clean surface. Apply disinfecting solution to surface by flushing, mopping, sponging or hand pump spraying so as to thoroughly wet surface. Allow surface to remain wet for 10 minutes. Remove solution with a clean mop, cloth, or wet vacuum pickup or allow to air dry. Prepare fresh solution at least daily or when use becomes visibly dirty. Any food contact surfaces that have been disinfected must be thoroughly rinsed with potable water. Before use in federally inspected meat and poultry food processing plants and dairies, food products and packaging materials must be removed from the room or carefully protected.

Non-Acid Toilet Bowl Disinfectant/Cleaner Directions: Remove gross filth prior to disinfection.

From Concentrate: Add ½ oz. to the bowl and mix. Brush over exposed surfaces and under the rim, allow to stand for 10 minutes and flush.

From Use Solution: Empty toilet bowl or urinal and apply 1 oz. per gallon use-solution to exposed surfaces and under the rim with a cloth, mop, sponge or mechanical spray. Brush or swab thoroughly. Let stand for 10 minutes and flush.

For Heavy Duty Use: Empty toilet bowl or urinal and apply 4 oz. per gallon use-solution to exposed surfaces including under the rim with a cloth, mop, sponge or sprayer. Brush or swab thoroughly. Let stand for 10 minutes and flush.



Deodorizing Directions: This product deodorizes garbage storage areas, garbage bins, toilet bowls and any other hard nonporous surfaces in odor causing areas. Mix ½ oz. per gallon of water and apply solution to surfaces. Thoroughly wet surfaces, allow to air dry.

Non-Food Contact Surface Sanitizing: Add 0.34 oz. of Oasis 146 Multi-Quat Sanitizer per 1 gallon of water (200 ppm active quat) to sanitize hard, nonporous non-food contact surfaces. Apply sanitizer use-solution with a cloth, mop, sponge, sprayer or by immersion. For sprayer applications, use a coarse spray device. Spray 6-8 inches from surface. Do not breathe spray. Treated surfaces must remain wet for 60 seconds. Wipe dry with a sponge, mop, or cloth or allow to air dry.

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

PRODUCT INFORMATION:

State	Liquid		
Appearance	Red transparent		
Fragrance	Disinfectant		
pH – conc:	6.5 – 9.0	pH – use dilution:	6.0 - 8.0
% P	0 %		
Kosher	No		
USDA	Letter of Guaranty available		
Conc. Test	Volumetric, quat test kit # 417, or QT 40 test strips (.25 - .67 oz/gal = 150 - 400 ppm)		
Hazard Rating (HMIS)	Health - 3	Fire - 0	Reactivity - 0

REGULATORY INFORMATION:

EPA Registration Number: 1677-198

MICROBIOLOGY:

Oasis 146 Multi-Quat Sanitizer is proven effective against:

When used at 0.25 oz - 0.67 oz. per 1 gallon of 400 ppm hard water (150 ppm to 400 ppm active quat), Oasis 146 Multi-Quat Sanitizer is an effective sanitizer against:

<i>Escherichia coli</i>	<i>Staphylococcus aureus</i>
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When used at 0.32 oz.- 0.67 oz. per 1 gallon of 500 ppm hard water (200 ppm to 400 ppm active quat), Oasis 146 Multi-Quat Sanitizer is an effective sanitizer against:

<i>Escherichia coli</i>	<i>Staphylococcus aureus</i>	<i>Campylobacter jejuni</i>
<i>Escherichia coli O157:H7</i>	<i>Klebsiella pneumoniae</i>	<i>Listeria monocytogenes</i>
<i>Salmonella choleraesuis</i>	<i>Shigella sonnei</i>	<i>Yersinia enterocolitica</i>
<i>Enterobacter sakazakii</i>		

When used at 1.0 oz. per 1 gallon water in the presence of 5% blood serum when evaluated by the AOAC Use-Dilution test (600 ppm active quat), Oasis 146 Multi-Quat Sanitizer is an effective hospital disinfectant against:

<i>Pseudomonas aeruginosa</i>	<i>Staphylococcus aureus</i>	<i>Salmonella choleraesuis</i>
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STABILITY & STORAGE:

Shelf life of concentrate: 12 Months

Usage Notes:

- Recommended dilution levels for food service sanitizing applications:

Spray bottle	250 ppm	0.42 oz/gal
3 – comp sink	250 ppm	0.42 oz/gal
Sanitizer pail w/cloths	350 ppm	0.58 oz/gal
- When testing dilution strength using quat test strips, always follow temperature guidelines printed on the test strip dispenser – i.e. solution temp between 65 and 75 degrees.
- Replace sanitizing solutions when they become visibly soiled or solution strength falls below minimum ppm requirement on the product label.

Material Safety Data Sheet



OASIS 146 MULTI-QUAT SANITIZER

Section 1. Chemical product and company identification

Trade name : OASIS 146 MULTI-QUAT SANITIZER
Product use : Sanitizer.
Supplier : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326
Code : 910787
Date of issue : 21-April-2006
EPA Registration No. : 1677-198

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

Section 2. Composition, information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
quatarnary ammonium compounds, di-c8-10-alkyldimethyl, chlorides	68424-95-3	4.5
quatarnary ammonium compounds, benzyl-c12-c16-alkyldimethyl, chlorides	68424-85-1	3.0
ethanol	64-17-5	1 - 5

Section 3. Hazards identification

Physical state : Liquid. (Liquid.)
Emergency overview : DANGER!

CAUSES EYE AND SKIN BURNS.
HARMFUL IF SWALLOWED.
MAY CAUSE RESPIRATORY TRACT IRRITATION.
Do not ingest. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Potential acute health effects

Eyes : Corrosive to eyes.
Skin : Corrosive to the skin.
Inhalation : Moderately irritating to the respiratory system.
Ingestion : Harmful if swallowed. Causes burns to mouth, throat and stomach.
See toxicological information (section 11)

Section 4. First aid measures

Eye contact : In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention immediately.
Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion : Rinse mouth; then drink one or two large glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire fighting measures

- Flash point : > 100°C
- Fire-fighting media and instructions : Use an extinguishing agent suitable for the surrounding fire.
- Dike liquid for later disposal.
No specific hazard.
- 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 : Ventilate area of leak or spill. Do not touch damaged containers or spilled material unless wearing appropriate protective equipment (Section 8). Stop leak if without risk. Do not allow to enter drains or watercourses.
- Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up : If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Section 7. Handling and storage

- Handling : Do not ingest. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
- Storage : Keep out of the reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area.
Do not store below 0°C

Section 8. Exposure controls, personal protection

- Engineering controls : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Provide eyewash and safety shower in area if contact or splash hazard exists.

Personal protection

- Eyes : Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.
- Hands : Use chemical-resistant, impervious gloves.
- Skin : Wear suitable protective clothing.
- Respiratory : Avoid breathing vapors, spray or mists.

Name

ethanol

Exposure limits

ACGIH TLV (United States, 1/2005).

TWA: 1880 mg/m³ 8 hour(s). Form: All forms

TWA: 1000 ppm 8 hour(s). Form: All forms

OSHA PEL (United States, 8/1997).

TWA: 1900 mg/m³ 8 hour(s). Form: All forms

TWA: 1000 ppm 8 hour(s). Form: All forms

Section 9. Physical and chemical properties

- Physical state : Liquid. (Liquid.)
- Color : Red.
- Odor : disinfectant
- pH : 7.7 (100%)
- Boiling/condensation point : 100 °C
- Specific gravity : 0.998 (Water = 1)
- Dispersibility properties : Easily dispersed in cold water, hot water.

Solubility : Easily soluble in cold water, hot water.

Section 10. Stability and reactivity

Stability : The product is stable.

Section 11. Toxicological information

Potential acute health effects

- Eyes : Corrosive to eyes.
- Skin : Corrosive to the skin.
- Inhalation : Moderately irritating to the respiratory system.
- Ingestion : Harmful if swallowed. Causes burns to mouth, throat and stomach.
- Chronic effects on humans : Contains material which causes damage to the following organs: blood, the reproductive system, liver, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

Section 12. Ecological information

Products of degradation : These products are carbon oxides (CO, CO₂) and water. Some metallic oxides.

Section 13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Consult your local or regional authorities.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Additional information
DOT Classification	Not regulated.	-	-	-	-

APPLIES ONLY DURING ROAD TRANSPORT

Any variation of the shipping description based on the packaging is not addressed.

Section 15. Regulatory information

- HCS Classification : Corrosive material
Target organ effects
- U.S. Federal regulations : SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
- TSCA 8(b) inventory : All materials are listed or exempt.
- California Prop. 65 : No products were found.
- EPA Registration No. : 1677-198

Section 16. Other information

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

Health	3
Fire hazard	0
Reactivity	0
Personal protection	B

Date of issue : 21-April-2006.
Responsible name : Regulatory Affairs
Date of previous issue : 30-March-2005.

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.**

KOOL-KLENE

1. Designed for cleaning walk-in freezers without defrosting or removing packaged food.
2. A mixture of detergents and freeze-point depressants.
3. USDA approved.
4. Meets the following specifications:

pH (100%).....	10.6-11.8
Specific Gravity @ 68°F.....	1.065-1.085
Nonionic Surfactant.....	1.5-3.0%
Non-Volatile @ 105°C.....	35% Min.
USDA Approved.....	Yes
Ethylene Glycol.....	None
5. Kool-Klene is ready-to- use.

Material Safety Data Sheet



KOOL KLENE

Section 1. Chemical product and company identification

Trade name : KOOL KLENE
Product use : Cleaning product
Supplier : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326
Code : 965806-03
Date of issue : 01-December-2009

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

Section 2. Hazards identification

Physical state : Liquid. [Liquid.]
Emergency overview : CAUTION !

COMBUSTIBLE LIQUID AND VAPOR.
MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.
Can cause central nervous system (CNS) depression.
Avoid contact with eyes, skin and clothing. Avoid breathing vapors, spray or mists. Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Potential acute health effects

Eyes : Moderately irritating to eyes.
Skin : Moderately irritating to the skin.
Inhalation : Moderately irritating to the respiratory system. High vapor concentrations can cause headaches, dizziness, drowsiness and nausea and may lead to unconsciousness.
Ingestion : May be harmful if swallowed. Ingestion may cause nausea, weakness and central nervous system effects.

See toxicological information (section 11)

Section 3. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
GLYCERIN	56-81-5	20 - 50
ISOPROPYL ALCOHOL	67-63-0	5 - 20
ETHANOLAMINE	141-43-5	1 - 5
poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-	34398-01-1	1 - 5

Section 4. First aid measures

Eye contact : In case of contact, immediately flush eyes with plenty of water. Remove contact lenses and flush again. Get medical attention if irritation persists.
Skin contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation persists. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation : If inhaled, remove to fresh air.
Ingestion : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire-fighting measures

- Flash point** : 40.5556 °C (Closed cup)
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
- Fire-fighting media and instructions** : Use dry chemical, CO₂, water spray (fog) or foam.
- Use water spray to keep fire-exposed containers cool. Dike area of fire to prevent runoff.
Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
- 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** : Use suitable protective equipment (section 8). Do not allow to enter drains or watercourses.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up** : If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion-proof means to transfer material to a sealable, appropriate container for disposal. For large spills, dike spilled material or otherwise contain it to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Section 7. Handling and storage

- Handling** : Avoid contact with eyes, skin and clothing. Avoid breathing vapors, spray or mists. Keep away from heat, sparks and flame. To avoid fire, eliminate ignition sources. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
- Storage** : Keep out of reach of children. Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).
Do not store above the following temperature: 35°C

Section 8. Exposure controls/personal protection

- Engineering measures** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.

Personal protection :

- Eyes** : Eye protection recommended.
- Hands** : For prolonged or repeated handling, use the following type of gloves: Impervious gloves.
- Skin** : No protective equipment is needed under normal use conditions.
- Respiratory** : Avoid breathing vapors, spray or mists.

Name

Exposure limits

GLYCERIN	ACGIH TLV (United States, 1/2009). TWA: 10 mg/m ³ 8 hour(s). Form: Mist OSHA PEL (United States, 11/2006). TWA: 5 mg/m ³ 8 hour(s). Form: Respirable fraction TWA: 15 mg/m ³ 8 hour(s). Form: Total dust
ISOPROPYL ALCOHOL	ACGIH TLV (United States, 1/2009). STEL: 400 ppm 15 minute(s). TWA: 200 ppm 8 hour(s). OSHA PEL (United States, 11/2006). TWA: 980 mg/m ³ 8 hour(s). TWA: 400 ppm 8 hour(s).
ETHANOLAMINE	ACGIH TLV (United States, 1/2009). STEL: 15 mg/m ³ 15 minute(s). STEL: 6 ppm 15 minute(s). TWA: 7.5 mg/m ³ 8 hour(s). TWA: 3 ppm 8 hour(s). OSHA PEL (United States, 11/2006). TWA: 6 mg/m ³ 8 hour(s). TWA: 3 ppm 8 hour(s).

Section 9. Physical and chemical properties

Physical state	: Liquid. [Liquid.]
Color	: Green. [Light]
Odor	: Alcohol-like.
pH	: 10.6 to 11.8 [Conc. (% w/w): 100%]
Relative density	: 1.065 to 1.085
Dispersibility properties	: Easily dispersible in the following materials: cold water and hot water.
Solubility	: Easily soluble in the following materials: cold water and hot water.

Section 10. Stability and reactivity

Stability	: The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
Reactivity	: Reactive or incompatible with the following materials: acids.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Potential acute health effects

Eyes	: Moderately irritating to eyes.
Skin	: Moderately irritating to the skin.
Inhalation	: Moderately irritating to the respiratory system. High vapor concentrations can cause headaches, dizziness, drowsiness and nausea and may lead to unconsciousness.
Ingestion	: May be harmful if swallowed. Ingestion may cause nausea, weakness and central nervous system effects.

Potential chronic health effects

Other adverse effects

Target organs	: Contains material which causes damage to the following organs: kidneys, liver. Contains material which may cause damage to the following organs: upper respiratory tract, central nervous system (CNS).
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Section 12. Ecological information

Ecotoxicity data : Not reported

Section 13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Consult your local or regional authorities.

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.

UN Classification

UN number	UN1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S. (Isopropanol)
Class	3
Packing group	III

See shipping documents for specific transportation information.

Section 15. Regulatory information

HCS Classification : Combustible liquid
Irritating material
Target organ effects

U.S. Federal regulations

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

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

California Prop. 65 : No products were found.

Section 16. Other information

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

Health	*	1
Flammability		2
Physical hazards		0

Date of issue : 01-December-2009.

Responsible name : Regulatory Affairs

Date of previous issue : 29-January-2009.

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.