

Ecolab Center  
St. Paul, Minnesota 55102

12716 MATERIAL SAFETY DATA SHEET: USA Page 1 of 2  
MEDICAL EMERGENCIES ONLY (24 Hour Service): 1-800-328-0026  
Medical Calls from Outside of the USA: 1-651-222-5352

INSTITUTIONAL DIVISION Ecolab Inc.

Ecolab Center St. Paul MN 55102

Product Information: 1-800-352-5326

Issue Date: November 25, 2003

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## 1.0 IDENTIFICATION /

- 1.1 Product Name: ECOTEMP ULTRA KLENE  
1.2 Product Type: Liquid Alkaline Machine Warewash Detergent  
1.3 Hazard Rating: Health: 3 Fire: 0 Reactivity: 1

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Substances Subject to SARA 313 Reporting Are Indicated by "#"

2.0 HAZARDOUS COMPONENTS /			(in mg/m3)	
	CAS No.	%	PEL	TWA
2.1 Sodium hydroxide (caustic soda)	1310-73-2	30	2	2C
2.2 Chelating agents	mixture	1-5	No	No

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STEL = ACGIH short term exp. limit (15 min) PEL = OSHA 8 hr ave in air  
TWA = ACGIH 8 hr average C = ceiling limit in air, do not exceed-----  
3.0 PHYSICAL DATA /

- 3.1 Appearance: Clear red liquid; no specific odor  
3.2 Solubility in Water: Mixes with water in all proportions  
3.3 pH: 13.0 - 14.0 (at 100%); 12.0 - 12.5 (at 0.2%)  
3.4 Initial Boiling Point: > 212 deg F / 100 deg C  
3.5 Specific Gravity: 1.365 @ 68 deg F / 20 deg C

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4.0 FIRE AND EXPLOSION DATA /

- 4.1 Special Fire Hazards: None, does not support combustion.  
4.2 Fire Fighting Methods: Use method appropriate for surrounding fire.  
Keep water from entering containers, generates significant heat.

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5.0 REACTIVITY DATA /

- 5.1 Stability: Stable under normal conditions of use and handling.  
5.2 Conditions to Avoid: Reacts vigorously with acids. Reacts with soft metals i.e. aluminum or zinc, producing flammable hydrogen gas.  
For mixing, add slowly to surface of solution to avoid splashing.

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6.0 SPILL OR LEAK PROCEDURES / WEAR PROPER PROTECTIVE EQUIPMENT

- 6.1 Cleanup: Dike or dam large spills. Pump to containers or soak up on inert absorbent. Flush residue or small spills to sanitary sewer.  
6.2 Waste Disposal: Consult state/local authority for limits on chemical waste disposal. Unused product is RCRA corrosive (D002).



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7.0 HEALTH HAZARD DATA / DANGER

7.1 Effects of Overexposure to Concentrate:  
Eyes: CAUSES CHEMICAL BURNS. May cause blindness.  
++ Immediate water flushing is vital in case of eye contact ++  
Skin: CAUSES CHEMICAL BURNS. Harmful contact may not cause immediate pain.  
If Swallowed: HARMFUL OR FATAL. Causes chemical burns of mouth throat and stomach.  
If Inhaled: Causes moderate to severe irritation or bronchitis, depending on exposure. People with lung problems may be more affected.

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8.0 FIRST AID /

- 8.1 Eyes: Flush at once with cool running water. Remove contact lenses and continue flushing for 15 minutes, holding eyelids apart so as to rinse entire eye. SEEK MEDICAL ATTENTION IMMEDIATELY.
- 8.2 Skin: Immediately flush skin with plenty of cool running water for at least 15 minutes while removing contaminated clothing and shoes. Discard or wash before reuse.
- 8.3 If Swallowed: Rinse mouth at once; then drink 1 or 2 large glasses of water. DO NOT induce vomiting. NEVER give anything by mouth to an unconscious person.
- 8.4 If Inhaled: Immediately move to fresh air.

IMMEDIATELY CALL THE MEDICAL EMERGENCY NUMBER, 1-800-328-0026,  
A POISON CONTROL CENTER, OR A PHYSICIAN

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9.0 PROTECTIVE MEASURES /

- 9.1 FOR CONCENTRATE:  
Eyes: Wear chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.  
Skin: Wear any impervious gloves, synthetic apron, other protective equipment as necessary to prevent skin contact.  
Respiratory: Avoid breathing mists or vapors of this product.  
Note: Provide access to emergency eye wash and shower.

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10.0 ADDITIONAL INFORMATION /

- 10.1 Purpose of 11/25/2003 issue: QC update; associated edits. Replaces September 1, 2000 issue.
- 10.2 SAFETY REMINDER:
  - \* Never pour product into unlabeled containers.
  - \* Use only for recommended uses. Read label.
  - \* Never take product home. Use only in workplace.

KEEP OUT OF REACH OF CHILDREN

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.