

10125

## MATERIAL SAFETY DATA SHEET

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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: September 1, 2000

## 1.0 IDENTIFICATION /

*Dishwasher*

1.1 Product Name: KEYSTONE LOW TEMP LIQUID DETERGENT

1.2 Product Type: Liquid Alkaline Machine Warewash Detergent

1.3 Hazard Rating: Health: 3 Fire: 0 Reactivity: 1

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 This product contains no other components considered hazardous according to the criteria of 29 CFR 1910.1200.				

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

3.2 Solubility in Water: Mixes with water in all proportions

3.3 pH: 13.0 - 14.0 (100%); 12.0 - 12.5 (0.2%)

3.4 Initial Boiling Point: &gt;212 deg F / 100 deg C

3.5 Specific Gravity: 1.360 @ 68 deg F / 20 deg C

## 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

## 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.

## 6.0 SPILL OR LEAK PROCEDURES /      USE PROPER PROTECTIVE EQUIPMENT

6.1 Cleanup: Rinse small amounts to drain where possible. Dike or dam large spills; pump to containers or soak up on inert absorbent. Flush residue to sanitary sewer; rinse area thoroughly.

6.2 Waste Disposal: Consult state/local authorities 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 irritation to bronchitis or pneumonia, 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. CALL A PHYSICIAN 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.

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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 industrial rubber 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 9/1/2000 issue: Add line 10.2; editorial update. Replaces August 3, 1999 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. 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.