

990440 MATERIAL SAFETY DATA SHEET: USA  
MEDICAL EMERGENCIES ONLY (24 Hour Service): 1-800-328-0026  
Medical Calls from Outside of the USA: 1-651-222-5352  
Ecolab Inc. Institutional Division  
370 Wabasha Street North  
St. Paul MN 55102  
Product Information: 1-800-352-5326 Issue Date: January 31, 2002

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**1.0 IDENTIFICATION /****1.1 Product Name:** SOLID ULTRA SURGE

1.2 Product Type: High Caustic Solid Laundry Detergent

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

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

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**2.0 HAZARDOUS COMPONENTS /**

	CAS No.	%	PEL	TWA
2.1 Sodium hydroxide (caustic soda)	1310-73-2	35	2	2C
2.2 Sodium carbonate (soda ash)	497-19-8	5-20	No	No
2.3 Nonylphenol ethoxylate	9016-45-9	20-50	No	No
2.4 Chelating agents	mixture	5-20	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

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**3.0 PHYSICAL DATA /**

3.1 Appearance: Bright yellow solid; ammonia odor  
3.2 Solubility in Water: Appreciable  
3.3 pH: 12.0 - 12.5 (at 0.2%)

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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.

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**6.0 SPILL OR LEAK PROCEDURES / WEAR PROPER PROTECTIVE EQUIPMENT**

6.1 Cleanup: Pick up without raising dust. Flush area with water.  
6.2 Waste Disposal: Consult state/local authority for limits on chemical waste disposal.

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**7.0 HEALTH HAZARD DATA / DANGER**

7.1 Effects of Overexposure to Concentrate:  
The solid form of this product makes exposure unlikely in normal use.  
The following applies to contact with product solutions or residues:  
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.

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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.

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:  
Due to the solid form of this product no protective equipment should be needed under normal use conditions. For exposure to concentrated solutions, the following measures are applicable:  
Eyes: Wear chemical splash goggles.  
Skin: Wear any impervious glove.
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## 10.0 ADDITIONAL INFORMATION /

- 10.1 Purpose of 1/31/2002 issue: Formula change; associated edits.  
Replaces June 18, 1996 issue.

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.