



Ecolab Center
St. Paul, Minnesota 55102

13961

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: July 2, 2003

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1.0 IDENTIFICATION /

- 1.1 Product Name: ULTRA SAN
- 1.2 Product Type: Sodium Hypochlorite Sanitizer - EPA No 1677-52
- 1.3 Hazard Rating: Health: 3 Fire: 0 Reactivity: 1

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

2.0 HAZARDOUS COMPONENTS /	CAS No.	%	(in mg/m3)	
			PEL	TWA
2.1 Sodium hypochlorite	7681-52-9	8.4	*	*
*PEL for chlorine = 3 C; ACGIH TWA = 1.5; ACGIH STEL = 2.9				

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 light yellow liquid; chlorine odor
- 3.2 Solubility in Water: Mixes with water in all proportions
- 3.3 pH: 10.5 (at 1%)
- 3.4 Initial Boiling Point: > 212 deg F / 100 deg C
- 3.5 Specific Gravity: 1.154 @ 68 deg F / 20 deg C

4.0 FIRE AND EXPLOSION DATA /

- 4.1 Special Fire Hazards: See Line 5.1
- 4.2 Fire Fighting Methods: Does not support combustion.

5.0 REACTIVITY DATA /

- 5.1 Stability: High temperatures may generate hazardous decomposition products including chlorine gas.
- 5.2 Conditions to Avoid: Mix only with water. Do not mix with acids or ammonia - will cause hazardous vapors.

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.



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7.0 HEALTH HAZARD DATA / DANGER

7.1 Effects of Overexposure to Concentrate:
Eyes: May cause severe eye irritation and damage. May cause blindness.
Skin: May cause severe irritation or chemical burns to broken skin.
If Swallowed: HARMFUL. Causes chemical burns of mouth, throat and stomach.
If Inhaled: Vapors or mist cause irritation, including a burning taste, sneezing, coughing and difficulty breathing. People with asthma or other lung problems may be more affected.

8.0 FIRST AID /

8.1 Eyes: Flush immediately with cool water. Remove contact lenses. Continue flushing for 15 minutes, holding eyelids apart. Get prompt medical attention.
8.2 Skin: Wash with plenty of soap and water while removing contaminated clothing and shoes. Discard or wash before reuse.
8.3 If Swallowed: Rinse mouth at once. Drink large amounts of water. DO NOT induce vomiting. NEVER give anything by mouth to an unconscious person. Call a physician or poison control center immediately.
8.4 If Inhaled: Vacate poorly ventilated areas as soon as possible. Do NOT return until odors have dissipated.

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

9.0 PROTECTIVE MEASURES /

9.1 FOR CONCENTRATE:
Eyes: Wear chemical goggles. For continued or severe exposure wear a face shield over the goggles.
Skin: Wear rubber gloves and protective clothing.
Respiratory: Avoid breathing vapors of this product.

10.0 ADDITIONAL INFORMATION /

10.1 Purpose of 7/2/2003 issue: Update safety, first aid, and protective measure information. Replaces August 5, 1999 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, handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.