

948323-05

MATERIAL SAFETY DATA SHEET

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: October 5, 1999

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1.0 IDENTIFICATION /**1.1 Product Name:** OASIS ENFORCE

1.2 Product Type: Liquid Self-Foaming Chlorinated Alkaline Cleaner

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

Substances Subject to SARA 313 Reporting Are Indicated by "#"-----
2.0 HAZARDOUS COMPONENTS /

(mg/m3)

	CAS No.	%	PEL	TWA
2.1 Potassium hypochlorite	7778-66-7	2	*	*
	*PEL for chlorine = 3 C; ACGIH STEL = 3			
2.2 Potassium hydroxide (caustic potash)	1310-58-3	11	No	2C
2.3 Nonionic surfactant	confidential	1-5	No	No
2.4 Anionic surfactant	confidential	1-5	No	No

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: 13.0 (100%)

3.4 Initial Boiling Point: > 212 deg F

3.5 Specific Gravity: 1.235 @ 68 deg F

4.0 FIRE AND EXPLOSION DATA /

4.1 Special Fire Hazards: High temperatures may release hazardous decomposition products including chlorine gas, hydrogen chloride.

4.2 Fire Fighting Methods: Does not support combustion.

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.

5.3 Reacts with reducing sugars in food products to form lethal carbon monoxide gas. Take proper precautions when using in an enclosed or semi-enclosed space. Monitor for carbon monoxide.

6.0 SPILL OR LEAK PROCEDURES / USE PROPER PROTECTIVE EQUIPMENT

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

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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.

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.

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 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: Access to emergency eye wash and shower is recommended.

10.0 ADDITIONAL INFORMATION /

- 10.1 Purpose of 10/5/1999 issue: Add line 1.3; QC and editorial update. Replaces February 18, 1998 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. 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.