

913699 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 7, 1999

1.0 IDENTIFICATION /

1.1 Product Name: GREASECUTTER

1.2 Product Type: Liquid Alkaline Oven Cleaner/Degreaser

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

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

2.0 HAZARDOUS COMPONENTS /

| | | | (mg/m3) | | |
|-----|--|--------------|---------|------------------|------|
| | CAS No. | % | PEL | TWA | |
| 2.1 | Sodium hydroxide (caustic soda) | 1310-73-2 | 4 | 2 | 2C |
| 2.2 | # 2-Butoxyethanol (ethylene glycol monobutyl ether) (absorbed through skin) | 111-76-2 | 1 | 240 | 121 |
| 2.3 | Ethanolamine (MEA) | 141-43-5 | 1-5 | 6 | 7.5* |
| | | | | *ACGIH STEL = 15 | |
| 2.4 | Cationic 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 yellow amber liquid; slight glycol ether odor
 3.2 Solubility in Water: Mixes with water in all proportions
 3.3 pH: 13.5 (100%)
 3.4 Initial Boiling Point: >212 deg F
 3.5 Specific Gravity: 1.040 @ 68 deg F

4.0 FIRE AND EXPLOSION DATA /

- 4.1 Special Fire Hazards: None
 4.2 Fire Fighting Methods: Product 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. Keep from freezing. Do not use on hot surfaces (> 130 deg F); irritating

vapors may occur.

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 or small spills to sanitary sewer.
- 6.2 Waste Disposal: Consult state/local authorities for limits on chemical waste disposal. Unused product is RCRA Corrosive (D002).

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. May not cause immediate pain.
 - If Swallowed: HARMFUL. Causes 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.
- 7.2 Note: In rats and mice, heavy doses of 2-butoxyethanol damage red blood cells, which in turn can injure the liver, kidney and spleen. These effects have not been observed in humans.

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: Ventilate to maintain air levels below exposure limits.

Avoid breathing mists or vapors of this product.

Note: Access to emergency eye wash and shower is recommended.

10.0 ADDITIONAL INFORMATION/PRECAUTIONS /

10.1 Purpose of 10/7/1999 issue: Periodic review; QC and editorial update. Replaces December 28, 1994 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.