

MATERIAL SAFETY DATA SHEET

Lawson HR-2001

1: CHEMICAL PRODUCT IDENTIFICATION

Product Name: HR-2001 Haze & Image Remover

Emergency Phone: CHEMTREC 1-800-424-9300

General Information: 314-382-9300

Manufactured for: Lawson Screen Products, Inc. 5110 Penrose Street Saint Louis MO 63115
Product Code: 195-7151
MSDS Date: June 1, 2006

2: COMPOSITION, INFORMATION ON INGREDIENTS

| Component | CAS Number | OSHA TWA | OSHA STEL | ACGIH TLV | ACGIH STEL |
|------------------|------------|---------------------|-----------|-----------|------------|
| Sodium Hydroxide | 1310-73-2 | 2 mg/m ³ | | | |
| Glycol ethers | 112-34-5 | NE ppm | | NE ppm | |

3: HAZARDS IDENTIFICATION

EMERGENCY RESPONSE INFORMATION

HAZARDS, HMIS/NFPA: Toxicity=3, Fire=1, Reactivity=0

HEALTH EFFECTS FROM OVEREXPOSURE

This Product is corrosive.

Primary Routes of Exposure: Skin Contact, Eye Contact, Inhalation

Eye Contact: Direct contact with material is destructive upon contact and will cause severe chemical burns and damage and even blindness.

Skin Contact: Direct contact can cause chemical burns for immediate or short term exposure and frequently deep ulceration and scarring.

Inhalation: Inhalation of mist or spray can cause damage or severe irritation to nose, throat and lungs.

4: FIRST AID MEASURES

Inhalation: Remove subject to fresh air.

Eye Contact: Flush eyes with a large amount of water for at least 15 minutes, periodically lifting upper and lower eye lids to ensure washing of entire surface. Consult a physician immediately.

Skin Contact: Wash affected skin areas thoroughly with plenty of water. This may be followed by a rinse of vinegar, if available. Consult physician if any irritation persists.

Ingestion: If swallowed DO NOT induce vomiting. Give large quantities of water to drink. Consult a physician immediately. Never give anything by mouth to an unconscious person.

5: FIRE FIGHTING MEASURES

FIRE AND EXPLOSIVE PROPERTIES:

| | |
|----------------------------|----------|
| Flash Point: | > 200 °F |
| Auto-ignition Temperature: | > 450°F |
| Lower Explosion Limit: | 0.9 |
| Upper Explosion Limit: | 12.5 |

Unusual Hazards: Material may burn and may spatter above boiling point.

Extinguishing Agents: Use extinguishing media appropriate for surrounding media. Use water spray to cool adjacent fire exposed containers to avoid rupture and spattering.

Personal Protective Equipment: As in any fire, wear self contained breathing apparatus (pressure demand, MSHA/NIOSH approved or equivalent) and full protective gear.

6: ACCIDENTAL RELEASE MEASURES

Personal Protection: Appropriate protective equipment must be worn when handling a spill of this material. See the PERSONAL PROTECTION MEASURES Section for recommendations. If exposed to material during clean-up operations, see the FIRST AID PROCEDURES Section for appropriate actions.

Procedures: Keep spectators away. Floor may be slippery; use care to avoid falling.

Flush small spills to sewer using plenty of water. Contain large spills immediately with inert materials (e.g. sand, earth, absorbent). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.

CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

7: HANDLING AND STORAGE

Handling: Avoid all contact with skin, eyes or clothing. Immediately remove and wash contaminated clothing before reuse. Practice good personal hygiene: Wash after handling; shower at end of work period.

Storage Conditions: Protect from freezing and storage temperatures above 120°F to insure material homogeneity.

Keep Out of Reach of Children. Store upright in original closed container.

8: EXPOSURE CONTROLS, PERSONAL PROTECTION

Respiratory Protection: Use of this product does not require respiratory protection under normal operating conditions. Use of local exhaust ventilation is recommended, especially for confined spaces.

Eye Protection: Wear chemical splash goggles (ANSI Z87.1 or approved equivalent).

Hand Protection: Wear gloves resistant to water and detergent permeation.

Other Protection: Rubber boots and apron are recommended for large scale product use.

Ventilation: Use normal room ventilation. Local exhaust mechanical general ventilation is recommended.

Other Protective Equipment: Eyewash station is recommended for facilities storing or utilizing this material.

9: PHYSICAL AND CHEMICAL PROPERTIES - TYPICAL

| | | | |
|-------------------------|--------------------|-------------------------|---------------------|
| State | Liquid/Paste | Vapor Density (Air = 1) | 0.62 Water |
| Appearance | Translucent/Opaque | Vapor Pressure | 17 mm Hg @ 20°C |
| Color | Brown | Freezing Point | 0°C = 32°F Water |
| Odor | Characteristic | Boiling Point | 100°C = 212°F Water |
| Viscosity | Very Thick | Solubility in Water | Complete |
| pH as is | 13.8 | Percent Volatility | Approximately 82% |
| Specific Gravity @ 60°F | 1.112 | VOC % | 64% = 5.93 Lbs/Gal |
| Density | 9.26 Lbs/Gal | HAP % | 0% = 0.0 Lbs/Gal |

10: STABILITY AND REACTIVITY

Instability: This material is considered stable.

Hazardous Decomposition Products: Carbon Dioxide, Carbon Monoxide if burned.

Hazardous Polymerization: This product will not undergo polymerization.

Incompatibility: This product is functionally not compatible with acids, cationic detergents and strong oxidizing agents.

11: TOXICOLOGICAL INFORMATION

Acute Data: Not Known

Sensitization Data: Not Known

Environmental Toxicity: None Known.

12: ECOLOGICAL INFORMATION

None Known

13: DISPOSAL CONSIDERATIONS

Procedure: Incinerate liquid and contaminated solids in accordance with local, state and federal regulations.

14: TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: Corrosive Liquid, Basic, Inorganic, n.o.s.,

Contains Sodium Hydroxide

Hazard Class: 8

UN IS No.: UN3266, PG II

EMERGENCY RESPONSE GUIDE NO.: 60 / 154

National Motor Freight Classification 75

15: REGULATORY INFORMATION

WORKPLACE CLASSIFICATIONS

This product is considered to be hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

This product is a 'controlled' product under the Canadian Workplace Hazardous Materials Information System (WHMIS).

EMERGENCY PLANNING AND COMMUNITY RIGHT - TO KNOW (SARA TITLE 3)

Section 311/312 Categorizations (40 CFR 370)

This product is a hazardous material under 29 CFR 1910.1200, and therefore is covered by Title III of SARA.

Section 313 Information (40 CFR 372)

This product does contain the following chemical which is listed in Section 313 at or above the de minimis concentrations:

Glycol Ethers 60%

15: REGULATORY INFORMATION (Continued)

CERCLA INFORMATION (40 CFR 302.4)

Releases of this material to air, land or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to the state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.

RCRA INFORMATION

When a decision is made to discard this material as supplied, it does meet RCRA's characteristic definition of corrosivity, or reactivity, and is not listed in 40 CFR 261.33. The toxicity characteristic (TC), however, has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP).

CHEMICAL CONTROL LAW STATUS

All components of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

16: OTHER SUPPLEMENTAL INFORMATION

ABBREVIATIONS

| | |
|-------|---|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| OSHA | Occupational Safety and Health Administration |
| TLV | Threshold Limit Value |
| PEL | Permissible Exposure Limit |
| TWA | Time Weighted Average |
| STEL | Short Term Exposure Limit |
| Bac | Butyl acetate |
| NE | Not Established |
| ND | Not Determined |
| NA | Not Applicable |

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