

Material Safety Data Sheet

NFPA: H = 3, F = 0, R = 0

HMIS Rating: Health = 3, Flammability = 0, Reactivity = 0

3920/3725

#120

SECTION I — IDENTITY AND MANUFACTURER'S INFORMATION (0490B)

| | |
|--|------------------------------------|
| Manufacturer's Name: HILLYARD INDUSTRIES | Product Name: RENOVATOR |
| Address: 302 North Fourth Street St. Joseph, MO 64502 | Date Prepared: May 16, 1991 |
| Prepared by Regulatory Affairs Department | |

Emergency Telephone No.: CHEMTREC (800) 424-9300 (Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals.)
Other Information Calls (816) 233-1321 (Ext. 303)

SECTION II — INGREDIENTS/IDENTITY INFORMATION

| Components (Specific Chemical Identity; Common Name(s)) | CAS # | OSHA PEL | ACGIH TLV | Other Limits Recommended | % (Optional) |
|---|------------|---------------------|---------------------|--------------------------|--------------|
| Ethanolamine (1) | 141-43-5 | 3 ppm | 3 ppm | N/A | 4-6 |
| Sodium metasilicate (2) (nuisance dust) | 6834-92-0 | 2 mg/M ³ | 2 mg/M ³ | N/A | 5-10 |
| Water | 7732-18-5 | none | none | N/A | --- |
| Benzyl alcohol (3) | 100-51-6 | none | none | N/A | --- |
| Sulfonated oleic acid, potassium salt | 68609-93-8 | none | none | N/A | --- |

- (1) Regulated by OSHA, CT, FL, IL, LA, MA, NJ, PA, RI
- (2) Regulated by OSHA
- (3) Regulated by PA (RTK), FL, MA

31673, 31674

SECTION III — PHYSICAL/CHEMICAL CHARACTERISTICS

| | | | | | |
|-------------------------|-----------|-------------|---|---------------------------------------|--------------|
| Boiling Point | 745 mm Hg | 211°F | Specific Gravity (H ₂ O = 1) | 25°C 39°C | 1.05 1.05 |
| Vapor Pressure (mm Hg.) | at 20°C | 17.1 | Percent Volatile By Volume (%) | average | 90.8 |
| Vapor Density (Air = 1) | | 0.7 | Evaporation Rate | (ethyl ether = 1) | less than 1 |
| Solubility in Water | | appreciable | Appearance and Odor | violet liquid; non-objectionable odor | |

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

| | | | |
|--|------------------|-----|-----|
| Flash Point (Method Used) | Flammable Limits | LEL | UEL |
| none to boiling (T.C.C.) | | N/A | N/A |
| Extinguishing Media Water, dry chemical, alcohol foam or carbon dioxide | | | |
| Special Fire Fighting Procedures N/A | | | |

Unusual Fire and Explosion Hazards
N/A

SECTION V — PHYSICAL HAZARDS

Stability: Unstable Stable Conditions to Avoid: N/A

Incompatibility (Materials to Avoid):
Oxidizing materials

Hazardous Decomposition Products Or Byproducts:
None known to manufacturer

Hazardous Polymerization: Will Not Occur May Occur Conditions to Avoid: N/A

SECTION VI - HEALTH HAZARD DATA

5/16/91

Route(s) of Entry: Inhalation? yes Skin? yes Ingestion? yes

Health Hazards (1. Acute and 2. Chronic)
1. Concentrate is corrosive to all body tissue with which it comes in contact.
2. Prolonged and repeated exposure to the skin may produce dermatitis. Inhalation of spray mist may result in varying degrees of irritation.

Chemical Listed as Carcinogen or Potential Carcinogen: National Toxicology Program Yes No I.A.R.C. Monographs Yes No OSHA Yes No

Signs and Symptoms of Exposure
Concentrated product may produce skin and eye burns. Ingestion may produce burns of mucous membranes of the mouth, throat, esophagus and stomach.

Medical Conditions
Generally Aggravated by Exposure
Skin problems such as industrial dermatitis.

Emergency and First Aid Procedures
In case of contact immediately flush eyes or skin with plenty of water for at least 15 minutes which removing contaminated clothing and shoes; remove contact lenses then flush eyes with water again. Get medical attention. Wash clothing before reuse and thoroughly clean contaminated shoes. If swallowed do not induce vomiting; immediately give large amounts of water and CALL A PHYSICIAN, hospital emergency room or poison control center. Inhalation: remove victim to fresh air; if respiratory tract remains irritated call a physician.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled
Wear/use appropriate protective equipment. Small spills: Take up with wet vac, mop or non-combustible absorbent material and place into containers for later disposal. Rinse affected area thoroughly with water. Large spills: Dike far ahead of liquid spill for later pick-up and disposal.

Waste Disposal Method
Disposal of concentrate regulated by Federal Resource Conservation and Recovery Act as a corrosive waste (40 CFR 261.22). Disposal of regulated quantities should be neutralized at a permitted facility in accordance with federal/state/local regulations (corrosive waste - pH conc. = 13-14). Waste from normal product use may be sewered to public-owned treatment works in compliance with applicable federal, state and local pretreatment requirements.

Precautions To Be Taken In Handling And Storing
Keep container closed when not in use. Triple rinse package (or equivalent). Then offer for recycling or reconditioning.

Other Precautions
Spray mist may produce respiratory irritation or damage without proper ventilation. Do not use with fog mist sprayer without respiratory protection. *

SECTION VIII - CONTROL MEASURES

Respiratory Protection (Specify Type)
Ventilate to keep air below TLV on metasilicate and monoethanolamine.

| Ventilation | Local Exhaust | Mechanical (General) | Special | Other |
|-------------|---------------|----------------------|---------|-------|
| | recommended | recommended | N/A | N/A |

Protective Gloves: impervious gloves when working with conc. Eye Protection: chemical safety goggles when working with conc.

Other Protective Clothing Or Equipment
Impervious to water and alkaline liquids where contact with conc. is a concern

Work/Hygienic Practices
Wash thoroughly after handling.

DISCLAIMER OF WARRANTIES

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY NATURE ARE MADE WITH RESPECT TO THE PRODUCT(S) OR INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET.

The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate.

THE BUYER OR USER ASSUMES ALL RISKS ASSOCIATED WITH THE USE, MISUSE OR DISPOSAL OF THIS PRODUCT. THE BUYER OR USER IS RESPONSIBLE TO COMPLY WITH ALL FEDERAL, STATE OR LOCAL REGULATIONS CONCERNING THE USE, MISUSE OR DISPOSAL OF THESE PRODUCTS.

* This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Sec. 313 of SARA Title III Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR Part 372.