

414707; 414706

#147

MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 2 Flammability = 0 Reactivity = 0
 *HMIS RATING: Health = 2 Flammability = 0 Reactivity = 0

SECTION I - IDENTITY AND MANUFACTURER'S INFORMATION

(1177A)

Manufacturer's Name: HILLYARD INDUSTRIES

Product Name: DEVASTATOR

Address: 302 North Fourth Street
 St. Joseph, MO 64501

Date Prepared: January 27, 2009 (Version 2)

Prepared by: Regulatory Affairs Department

Emergency Telephone No.: (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. 8285)
<http://www.hillyard.com>

SECTION II - INGREDIENTS/IDENTITY INFORMATION

Components

(Specific Chemical Identity:

| Common Name(s) | CAS# | OSHA PEL | ACGIH TLV | OTHER LIMITS RECOMMENDED | % |
|--|-----------|-----------------|-----------------|--------------------------|-------|
| 2-Butyl cellosolve (2-Butoxyethanol)(1)* | 111-76-2 | 50 ppm | 20 ppm | N.A. | 20-25 |
| Ethanolamine (2) | 141-43-5 | 3 ppm | 3 ppm | N.A. | 5-10 |
| Water | 7732-18-5 | none | none | N.A. | --- |
| Benzyl alcohol | 100-51-6 | not established | not established | N.A. | --- |
| Sodium xylene sulfonate | 1300-72-7 | not established | not established | N.A. | --- |

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

*This product contains the following chemicals subject to the reporting requirements of SARA Title III, Sec. 313, and 40 CFR Part 372: 2-Butoxyethanol.

VOC = 945 gm./l.; VOS = 2.84 lbs./gal.

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 210°F Specific Gravity (H₂O = 1): 25°C = 1.0 & 39°C = 1.0
 Vapor Pressure (mm Hg.): 16.0 Percent Volatile by Volume (%): 98.17
 Vapor Density (AIR = 1): 1.6 Evaporation Rate (ethyl ether = 1): slower than 1
 Solubility in Water: appreciable Appearance and Odor: clear, colorless liquid, solvent odor
 pH (concentrate) = 11.8

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash point: none (Tag Closed Cup) Flammable Limits: LEL = N/A UEL = N/A
 Extinguishing Media: Carbon dioxide, dry chemical or foam (water spray to cool closed containers)
 Special Fire Fighting Procedures: Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. Unusual Fire and Explosion Hazards: None known to Hillyard.

SECTION V - PHYSICAL HAZARDS

Stability: Stable Conditions to Avoid: N/A
 Incompatibility (Materials to Avoid): Keep away from strong oxidizers such as permanganate or strong oxides.
 Hazardous Decomposition Products or Byproducts: As with any organic material, combustion will produce carbon dioxide and carbon monoxide.
 Hazardous Polymerization: Will not occur Conditions to Avoid: N/A

SECTION VI - HEALTH HAZARD DATA

Routes of entry: Inhalation? Yes Skin? Yes Ingestion? Yes

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. According to Primary Skin Irritation Test (FHSA), product concentrate is moderate irritant to skin at 24 hours. Eye Irritation Test (FHSA) = corrosive. When tested as specified this product was not considered to be a UN/DOT corrosive at 4 hours. Acute oral limit test showed the product was orally toxic at 5g./kg. It may be harmful or fatal if swallowed. Inhalation of fine fog mist can cause irritation to mucous membranes. Fine fog mist application is not recommended. 2. None known to manufacturer.