

H 47506

#475

MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 2
HMS RATING: Health = 2

Flammability = 0
Flammability = 0
Reactivity = 0
Reactivity = 0

SECTION I – IDENTITY AND MANUFACTURER'S INFORMATION (1062A)

Manufacturer's Name: HILLYARD INDUSTRIES
Address: 302 North Fourth Street
 St. Joseph, MO 64501

Product Name: TILE AND GROUT CLEANER/RENOVATOR**Date Prepared:** April 28, 2008**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	%
Phosphoric acid*(1)	7664-38-2	1 mg/M ³	1 mg/M ³	3 mg/M ³	6-12%
Butyl cellosolve (2-Butoxyethanol)*(2)	111-76-2	50 ppm	20 ppm	N.A.	3-8%
Water	7732-18-5	none	none	N.A.	—
Dodecyl Benzene Sulfonic Acid	1886-81-3	not est.	not est.	N.A.	—

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

(1) Regulated by OSHA, CT, FL, IL, LA, MA, NJ, NY, PA, and RI.

(2) Regulated by OSHA, FL, IL, LA, MA, NJ, PA, and RI.

VOS (with water) = 43 g/l; VOC less water = 305 g/l.

SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 210°F **Specific Gravity (H₂O = 1):** 25°C = 01.04 & 39°C = 1.04
Vapor Pressure (mm Hg): 17.2 **Percent Volatile by Volume (%):** 86.2%
Vapor Density (AIR = 1): 0.9 **Evaporation Rate (ethyl ether = 1):** slower than 1
Solubility in Water: complete **Appearance and Odor:** Clear, blue liquid, Mint odor
pH (concentrate) = 1.05; when diluted 1:35 with water pH = 1.48

SECTION IV – FIRE AND EXPLOSION HAZARD DATA**Flash point:** None to Boiling (T.C.C.) **Flammable Limits:** LEL = 1.1% UEL = N.A.**Extinguishing Media:** Foam, dry chemical, carbon dioxide, water spray.**Special Fire Fighting Procedures:** Hot phosphoric acid is corrosive. Self contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.**Unusual Fire and Explosion Hazards:** May generate hydrogen gas in contact with some metals.**SECTION V – PHYSICAL HAZARDS****Stability:** Stable **Conditions to Avoid:** None known to manufacturer.**Incompatibility (Materials to Avoid):** Corrodes some metals and alloys; cyanides and strong alkalis (ammonia), bleach or hypochlorites.**Hazardous Decomposition Products or Byproducts:** Hydrogen gas from contact with some metals.**Hazardous Polymerization:** Will not Occur **Conditions to Avoid:** N.A.**SECTION VI – HEALTH HAZARD DATA****Routes of entry:** Inhalation? by mist Skin? yes Ingestion? yes**HEALTH HAZARDS (1. Acute and 2. Chronic)**

1. According to Primary Skin Irritation Test (FHSA), product concentrate is corrosive on prolonged exposure; Eye Irritation Test (FHSA) = eye irritant. When tested as specified this product was not considered to be a UN/DOT corrosive at 4 hours. Prolonged skin contact may cause skin burns. Spray mist may irritate nose and throat. Harmful or fatal if swallowed.

2. Chronic local effects may consist of multiple areas of superficial destruction of skin or dermatitis.

Chemical listed as Carcinogen or Potential Carcinogen:**National Toxicology Program** = No **I.A.R.C. Monographs** = No **OSHA** = No

This product has no carcinogens listed by IARC, NTP, NIOSH, or ACGIH as of this date, greater than or equal to 0.1%.