#### 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 (559N53A)

Manufacturer's Name: HILLYARD INDUSTRIES Product Name: TILE AND GROUT CLEANER/RENOVATOR

Address: 302 North Fourth Street Date Prepared: January 6, 2012 (version 2)
St. Joseph, MO 64501 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:		OSHA	ACGIH	OTHER LIMITS	
Common Name(s)	CAS#	PEL	TLV	RECOMMENDED	%
Phosphoric acid* (1)	7664-38-2	$1 \text{ mg/M}^3$	1 mg/M <sup>3</sup>	$3 \text{ mg/M}^3$	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	N/E	N/E	N/A	

<sup>\*</sup>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.

VOC less water = 305 g/l.

N/A= Not Applicable N/E= Not Established

# \*SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Vapor Pressure (mm Hg.): 17.2 \*Percent Volatile by Weight (%): 86.5 – 87.5% Vapor Density (AIR = 1): 0.9 Evaporation Rate (ethyl ether = 1): slower than 1 Appearance and Odor: Clear, blue liquid, Mint odor

\*pH (concentrate) = 0 - 1.5; 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 alkalies (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%.

<sup>(1)</sup> Regulated by OSHA, CT, DE, FL, ID, IL, LA, MA, MN, NJ, NY, PA, RI, WA, WI.

<sup>(2)</sup> Regulated by OSHA, FL, ID, IL, LA, MA, MN, NJ, PA, RI, WA, WI.

### SECTION VI -- HEALTH HAZARD DATA cont.

**Signs and Symptoms of Exposure:** Contact: eye irritation and/or burns of skin, and on mouth and lips after ingestion, with sour taste of acid, severe gastrointestinal irritation, nausea, vomiting, bloody diarrhea. Butyl cellosolve is readily absorbed through the skin in toxic amounts. Inhalation of high concentrations of vapors may result in respiratory and eye irritation, narcosis, headache, nausea, dizziness, hematuria and damage to liver and kidneys.

Date: January 6, 2012

**Medical Conditions Generally Aggravated by Exposure:** Repeated over exposure to butyl cellosolve may result in damage to the blood, hemolysis, hemoglobinuria.

**Emergency and First Aid Procedures: Eyes:** immediately flush eyes with plenty of water for 15 minutes. For eyes, CALL A PHYSICIAN immediately. **Skin**: Flush skin with plenty of water for 15 minutes. If skin irritation persists, get medical attention. Remove and wash all contaminated clothing before reuse. **Ingestion**: If swallowed, immediately give large of water and call a physician, hospital emergency room or poison control center. If excess inhaled, remove to fresh air.

## SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE

**Steps To Be Taken In Case Material Is Released Or Spilled:** Absorb with floor dry or similar inert material. Sweep or scrape up and put in appropriate container. Rinse spill area thoroughly with water. Avoid contamination of storm drains, sewers, or other unauthorized treatment drainage systems and natural waterways.

**Waste Disposal Method:** Disposal is regulated under the Resource Conversation and Recovery Act (40 CFR 261.22) as a corrosive waste. Regulated quantities should be neutralized by a permitted facility in accordance with applicable local, state, and federal regulations.

**Precautions To Be Taken In Handling And Storing:** Product residue may remain on or in empty containers. All precautions for handling the product must be used in handling the empty container or residue. Container disposal: Triple rinse (or equivalent) then offer clean, dry container for recycling or reconditioning. Waste from normal use may be sewered to a public-owned treatment works in compliance with applicable federal, state, and local requirements.

**Other Precautions:** Avoid breathing fine fog spray mist. Use with adequate ventilation. Open windows and doors, use exhaust fans or other means to insure fresh air entry during application and drying. Refer to OSHA STANDARD 29 CFR 1910.94 for technical guidelines on keeping air contamination below applicable exposure limits. Avoid contact with skin, eyes and clothing. Do not take internally.

## SECTION VIII -- CONTROL MEASURES

Respiratory Protection (Specify Type): Not usually necessary. If spraying in a fine fog mist increase ventilation.

**Ventilation:** At least 3 air exchanges per hour suggest in good public restrooms.

**Protective Gloves:** Impervious gloves (Rubber or PVC) **Eye Protection:** Chemical safety goggles.

Other Protective Clothing or Equipment: Not usually necessary

Work / Hygienic Practices: Wash thoroughly after handling. Upon contact remove contaminated clothing; wash before reuse.

# SECTION IX - TRANSPORTATION INFORMATION

#### DOT SHIPPING DESCRIPTION ON BILL OF LADING:

**Applicable regulations:** 49 CFR = no; IMCO = no; IATA = no.

**Proper shipping name:** Cleaning compound

UN No.: not applicable Limited Qty.: not applicable Hazard Class: not applicable

**Labels required:** <u>none</u> **DOT Exception:** <u>not applicable</u> **EPA Hazardous waste number / code:** not listed

**Hazardous waste characteristics:** Ignitability =  $\underline{not}$  applicable; Corrosivity =  $\underline{yes}$ ; Reactivity =  $\underline{not}$  applicable

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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.

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