

**MATERIAL SAFETY DATA SHEET**

**NFPA RATING:** Health = 3 Flammability = 0 Reactivity = 0  
**HMIS RATING:** Health = / 3 Flammability = 0 Physical Hazard = 0

**SECTION I – IDENTITY AND MANUFACTURER'S INFORMATION (538N-41A)****Manufacturer's Name:** HILLYARD INDUSTRIES**Product Name:** SUPER STRIP**Address:** 302 North Fourth Street**Date Prepared:** July 25, 2011 (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:**

| Common Name(s)                                       | CAS#      | OSHA PEL             | ACGIH TLV            | OTHER LIMITS RECOMMENDED   | %      |
|--|-----------|----------------------|----------------------|----------------------------|--------|
| 2-Butyl cellosolve (2-Butoxyethanol) <sup>(1)*</sup> | 111-76-2  | 50ppm                | 20 ppm               | N/A                        | 18-23% |
| Ethanolamine <sup>(2)</sup>                          | 141-43-5  | 3 ppm                | 3 ppm                | N/A                        | 3-7%   |
| Potassium Hydroxide <sup>(3)*</sup>                  | 1310-58-3 | 2 mg/ m <sup>3</sup> | 2 mg/ m <sup>3</sup> | NIOSH = 2mg/m <sup>3</sup> | 1-5%   |
| Sodium Metasilicate                                  | 6834-92-0 | N/E                  | N/E                  | 2 mg/M <sup>3</sup>        | 1-5%   |
| Water  | 7732-18-5 | none                 | none                 | N/A                        | ---    |
| Sodium Xylene Sulfonate                              | 1300-58-3 | none                 | none                 | N/A                        | ---    |

(1) Regulated by OSHA: CA, FL, ID, IL, LA, MA, MN, NJ, PA, RI, WA, WI

(2) Regulated by OSHA: CA, CT, FL, ID, IL, LA, MA, MS, MN, NJ, PA, RI, WA, WI

(3) Regulated by OSHA: CA, CT, DE, FL, ID, IL, LA, MA, NJ, NY, PA, RI, WA, WI

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

VOC (Concentrate) = 26%; VOC (min. dilution) = 4.33%

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

**SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS**

|                                 |             |  |   |                   |             |
|---------------------------------|-------------|--|---|-------------------|-------------|
| <b>Boiling Point:</b>           | 204°F       | <b>Specific Gravity (H<sub>2</sub>O = 1): 25°C =</b> | 1.05  | <b>*Density =</b> | 8.74 lbs/gl |
| <b>Vapor Pressure (mm Hg.):</b> | 16.3        | <b>*Percent Volatile by Weight (%):</b>              | 83.75 – 84.75%                                      |                   |             |
| <b>Vapor Density (AIR = 1):</b> | 1.5         | <b>Evaporation Rate (ethyl ether = 1):</b>           | slower than 1                                       |                   |             |
| <b>Solubility in Water :</b>    | Complete    | <b>Appearance and Odor:</b>                          | Clear, colorless to amber liquid; mild solvent odor |                   |             |
| <b>pH (concentrate) =</b>       | 13.5 – 14.5 |  |   |                   |             |

**SECTION IV – FIRE AND EXPLOSION HAZARD DATA****Flash point:** None (Tag Closed Cup) **Flammable Limits:** LEL = Not established UEL = Not established**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:** Heat, sparks and open flame**Incompatibility (Materials to Avoid):** Keep away from strong oxidizers such as permanganate or strong oxides. Avoid contact with all acids, leather, wool, aluminum, copper, tin, lead, zinc and their alloys.**Hazardous Decomposition Products or Byproducts:** Potassium hydroxide reacts with zinc, aluminum, tin, and other active metals liberating flammable hydrogen gas.**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. Corrosive to all body tissue with which it comes in contact. Chronic local effects may consist of multiple areas of superficial destruction of the skin or dermatitis. Harmful or fatal if swallowed. 2. None known to Hillyard

**Chemical listed as Carcinogen or Potential Carcinogen:**

**National Toxicology Program =** No **I.A.R.C. Monographs =** No **OSHA =** No

## SECTION VI – HEALTH HAZARD DATA continued.

**Signs and Symptoms of Exposure:** Butyl cellosolve is readily absorbed through the skin in toxic amounts. Inhalation of high concentrations of vapors results in respiratory and eye irritation, narcosis, headache, nausea, dizziness, hematuria, and damage to liver and kidneys.

**Medical Conditions Generally Aggravated by Exposure:** Repeated overexposure may result in damage to the blood.

**Emergency and First Aid Procedures:** **Inhalation** - Remove person to fresh air. If breathing difficulty persists or occurs later, call a physician. **Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes. Get prompt medical attention. **Skin:** Immediately flush skin with plenty of water for at least 15 minutes. Remove and wash all contaminated clothing before reuse. Get prompt medical attention. **Ingestion:** If swallowed, immediately give large amounts of water and CALL A PHYSICIAN, hospital emergency room or poison control center.

## SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

**Steps To Be Taken In Case Material Is Released Or Spilled:** Absorb large spills with floor dry material (see disposal below). Small spills: Flush with water and pick up with mop or wet vacuum.

**Waste Disposal Method:** Dispose of in accordance with state or local regulations. Do not dispose of in storm drains or streams; monoethanolamine is toxic to fish.

**Precautions To Be Taken In Handling And Storing:** Keep container closed when not in use. Since empty packages retain product residue, follow label warning even after package is empty. Do not store above 120°F. Spray mist may produce respiratory irritation or damage and increase susceptibility to respiratory illness. USE WITH ADEQUATE VENTILATION. Avoid breathing vapors or spray mist. 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 acceptable exposure limits. Do not get on skin, in eyes, or on clothing.

## SECTION VIII – CONTROL MEASURES

**Respiratory Protection (Specify Type):** Wear appropriate, properly fitted respirator (NIOSH or MSHA approved) unless air monitoring demonstrates vapor or mist levels are below applicable limits.

**Ventilation:** at least 10 air changes per hour recommended

**Local Exhaust** = recommended      **Mechanical (General)** = recommended      **Special** = N/A      **Other** = N/A

**Protective Gloves:** impervious rubber gloves      **Eye Protection:** chemical safety goggles

**Other Protective Clothing or Equipment:** Protective clothing such as uniforms, coveralls. Wear impervious/slip-resistant boots such as Hillyard Stripping Boots while standing in the stripping solution.

**Work / Hygienic Practices:** Wash contaminated clothing before reuse (including shoes).

## SECTION IX – TRANSPORTATION INFORMATION

### DOT SHIPPING DESCRIPTION ON BILL OF LADING:

(Quart boxes) = Consumer Commodity ORM-D

Package Marking = Consumer Commodity ORM-D    Label = None    Hazard Class = not applicable

### DOT SHIPPING DESCRIPTION ON BILL OF LADING:

(2.5 and 55 Gallon packages) = Compound, cleaning, liquid, (Potassium Hydroxide, Monoethanolamine), 8, NA 1760, PG II

Package Marking = Compound, cleaning liquid (Potassium Hydroxide, Monoethanolamine), NA 1760

Package Label = Corrosive    Hazard Class = 8    Package Group = II

**EPA Hazardous waste number/code:** not listed

**Hazardous waste characteristics:** Ignitability = not applicable; Corrosivity = applicable; Reactivity = 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.

**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.**