

**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** (543N-22A)

**Manufacturer's Name:** HILLYARD INDUSTRIES

**Product Name:** GREEN SELECT STRIPPER

**Address:** 302 North Fourth Street

**Date Prepared:** February 6, 2009 (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.)

**Emergency Telephone No.:** (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	%
Ethanolamine	141-43-5	3 ppm	3 ppm	N.A.	<10%
Water	7732-18-5	none	none	N.A.	---
Benzyl Alcohol	100-51-6	not established	not established	TWA = 10 ppm.	---
Citric Acid	77-92-9	not established	not established	N.A.	<1%
Dipropylene glycol n-propyl ether	29911-27-1	not established	not established	N.A.	<5%
Alkyl Glucoside	98283-67-1	not established	not established	N.A.	<1%
Sodium Xylene Sulfonate	1300-72-7	not established	not established	N.A.	20-25%
1-Butoxy-2-propanol	5131-66-8	not established	not established	TWA = 50 ppm	<5%
Surfactant Blend	Unknown to Hillyard	not established	not established	N.A.	<1%
VOC (Concentrate) = 22.0%; VOC (1:4 Dilution) = 4.40%, VOC (1:8 Dilution) = 2.2%					

**SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS**

<b>Boiling Point:</b>	206°F	<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	25°C = 1.03 & 39°C = 1.04
<b>Vapor Pressure (mm Hg.):</b>	16.51	<b>Percent Volatile by Volume (%):</b>	87%
<b>Vapor Density (AIR = 1):</b>	1.4	<b>Evaporation Rate (ethyl ether = 1):</b>	slower than 1
<b>Solubility in Water :</b>	complete	<b>Appearance and Odor:</b>	clear, colorless liquid, solvent odor
<b>pH (concentrate) =</b>	11 - 12		

**SECTION IV -- FIRE AND EXPLOSION HAZARD DATA**

**Flash point:** None to boiling point (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. Prolonged skin or eye contact may cause irritation. This product is not a sensitizer in guinea pigs using the Guinea Pig Maximization Test. This product is not a UN/DOT corrosive at 4 hours. Ingestion may cause nausea, vomiting, headaches, and dizziness. Acute oral limit test are not oral toxic at 5g./kg. Product concentrate was not toxic to rats by inhalation at 223 mg/liter. Since product contains some solvent it may be harmful if swallowed. Inhalation to fine fog mist can cause irritation to mucous membranes. Fine fog mist application is not recommended. 2. None known to manufacturer.

**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:** Inhalation of high concentrations of vapors may cause respiratory nausea, vomiting, headaches, and dizziness.

**Medical Conditions Generally Aggravated by Exposure:** None known to Hillyard.

**Emergency and First Aid Procedures:** In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If irritation persists get medical attention. Wash clothing before reuse and thoroughly clean contaminated shoes before reuse. 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:** 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. This product contains no chemicals subject to the reporting requirements of SARA Title III, Sec. 313, and 40 CFR Part 372. Container disposal: Triple rinse (or equivalent), then offer clean, dry container for recycling or reconditioning.

**Precautions To Be Taken In Handling And Storing:** Avoid prolonged contact with eyes, on skin, or on clothing. USE ONLY 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. Wash thoroughly after handling. Do not take internally. Keep container closed when not in use. In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations.

## SECTION VIII -- CONTROL MEASURES:

**Respiratory Protection (Specify Type):** Follow good engineering practices.

**Ventilation:** Use ventilation according to number of people in the area.

**Local Exhaust =** Not required      **Mechanical (General) =** recommended      **Special =** N/A      **Other =** N/A

**Protective Gloves:** Not necessary when following label directions      **Eye Protection:** Not necessary when following label directions

**Other Protective Clothing or Equipment:** 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:

**Applicable regulations:** DOT = No; IMCO = No; IATA = No

**Proper shipping name:** Cleaning compound

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

**Labels required:** not required      **DOT Exception:** not applicable

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

**Hazardous waste characteristics:**

**Ignitability =** not applicable; **Corrosivity =** not applicable; **Reactivity =** not applicable

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