

MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 0 Flammability = 0 Reactivity = 0

HMIS RATING: Health = 0 Flammability = 0 Reactivity = 0

SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION (1133A)

Manufacturer's Name: HILLYARD INDUSTRIES

Product Name: GREEN SELECT GLASS CLEANER

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

Date Prepared: *August 1, 2010 (version 3)

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	%
Water	7732-18-5	none	none	N/A	---
Alkyl polyglucoside mixture (nonionic surfactant)	98283-67-1	N/E	N/E	N/A	---
VOC = 0 g/l.;		N/E = Not established		N/A = Not Applicable	

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

Boiling Point: 208°F

Specific Gravity (H₂O = 1): 25°C = 1.01 ***Density =** 8.42 lb/gl.

Vapor Pressure (mm Hg.): 17.5

***Percent Volatile by Weight (%):** 97 – 98%

Vapor Density (AIR = 1): 0.6

Evaporation Rate (ethyl ether = 1): slower than 1

Solubility in Water: complete

***Appearance and Odor:** clear, blue liquid; no fragrance added

***pH (concentrate) =** 3.5 – 4.5

pH (diluted 1:20) = 5 - 6

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

Flash point: None to 200°F (T.C.C.) **Flammable Limits:** LEL = N/A UEL = N/A

Extinguishing Media: Water spray, Carbon Dioxide, Dry Chemical

Special Fire Fighting Procedures: Wear a self-contained breathing apparatus, goggles and nitrile or rubber gloves with concentrate.

Unusual Fire and Explosion Hazards: None known to manufacturer.

SECTION V -- PHYSICAL HAZARDS

Stability: Stable

Conditions to Avoid: None known to Hillyard

Incompatibility (Materials to Avoid): Strong oxidizing materials

Hazardous Decomposition Products or Byproducts: As with any organic material, combustion will produce carbon dioxide and probably carbon monoxide.

Hazardous Polymerization: Will not occur

Conditions to Avoid: None known

SECTION VI -- HEALTH HAZARD DATA

Routes of entry: Inhalation? no Eye? No Skin? no Ingestion? no

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. When tested per the Federal Hazardous Substance Act method 16 CFR 1500 concentrated product was not a eye nor a skin irritant; per the FHSA method 16 CFR 1500. Not acutely toxic (oral) to rats at 5000 mg/kg. per upper limit test. Acute inhalation = 1 hour upper limit test not toxic at 21.7 mg/L.

2. None known to Hillyard.

SECTION VI -- HEALTH HAZARD DATA continued

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%

Signs and Symptoms of Exposure: Overexposure may cause drowsiness, headache and uncoordination.

Medical Conditions Generally Aggravated by Exposure: None known by manufacturer.

Emergency and First Aid Procedures: Eye and skin contact: Flush with plenty of water for 15 minutes; remove contact lenses and flush eyes again with water. If eye irritation persists get medical attention. If swallowed: Call a physician, hospital emergency room or poison control center immediately; induce vomiting.

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. Small spills: Flush with water and pick up with mop.

Waste Disposal Method: Dispose of in accordance with state and local regulations.

Precautions To Be Taken In Handling And Storing: Keep container closed when not in use.

Other Precautions: Do not take internally.

SECTION VIII -- CONTROL MEASURES

Respiratory Protection (Specify Type): None required.

Ventilation: Follow good engineering practices for ventilation in public areas.

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

Protective Gloves: N/A Eye Protection: N/A

Other Protective Clothing or Equipment: N/A

Work / Hygienic Practices: Wash thoroughly after handling.

SECTION IX - TRANSPORTATION INFORMATION

Applicable regulations: CFR = No IMCO = No IATA = No

Proper shipping name for air, foreign water for highway: Cleaning compound

UN No.: not applicable for highway **Limited Qty.:** not applicable **Hazard class:** not applicable for highway

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

EPA Hazardous waste characteristics:

Ignitability = Not applicable; **Corrosivity =** Not applicable; **Reactivity =** Not applicable.

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