MATERIAL SAFETY DATA SHEET

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

SECTION I -- ACTIVITY AND MANUFACTURER'S INFORMATION

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  98283-67-1  N/E  N/E  N/A  ---
(nonionic surfactant)
VOC = 0 g/1.;  N/E = Not established  N/A = Not Applicable

*SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 208ºF  Specific Gravity (H2O = 1): 25ºC = 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 200ºF (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


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 5 gm/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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