

MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 1 Flammability = 0 Reactivity = 0

HMIS RATING: Health = /1 Flammability = 0 Reactivity = 0

SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION (1160A)

Manufacturer's Name: HILLYARD INDUSTRIES

Product Name: GREEN SELECT

DEGREASER CLEANER

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

Date Prepared: January 24, 2008

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	68515-73-1 & 110615-47-9	not established	not established	N/A	---
Sodium Citrate	68-04-2	not established	not established	N/A	

VOC Concentrate = 46.8 g/l.; VOC (concentrate) 0.5%; VOC (Min. dilution) 0.04%

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 208°F	Specific Gravity (H₂O = 1): 25°C = 1.05 & 39°C = 1.05
Vapor Pressure (mm Hg.): 17.5	Percent Volatile by Volume (%): 88.97
Vapor Density (AIR = 1): 0.6	Evaporation Rate (ethyl ether = 1): slower than 1
Solubility in Water: complete	Appearance and Odor: clear, brown liquid; citrus odor
pH (concentrate) = 7.1	

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, Foam

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, strong acids and strong bases.

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? yes 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 skin irritant; per the FHSA method 16 CFR 1500 the concentrated product was an eye irritant. The concentrated product was not acutely toxic (oral) to rats at 5 gm/kg. per upper limit test. Acute inhalation = 1 hour upper limit test was not able to test because product foamed too much to dose by a mist.

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 public areas.

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

Protective Gloves: N/A Eye Protection: Goggles only where splashing of concentrate is a concern.

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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