

**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:** ARSENAL GREEN SELECT  
GLASS CLEANER

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

**Date Prepared:** December 7, 2006

**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	not established	not established	N/A	---

VOC = 0 g/l.; VOC Concentrate = 0 g/l.

**SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS**

<b>Boiling Point:</b> 208°F	<b>Specific Gravity (H<sub>2</sub>O = 1):</b> 25°C = 1.01 & 39°C = 1.01
<b>Vapor Pressure (mm Hg.):</b> 17.5	<b>Percent Volatile by Volume (%):</b> 97.3
<b>Vapor Density (AIR = 1):</b> 0.6	<b>Evaporation Rate (ethyl ether = 1):</b> slower than 1
<b>Solubility in Water:</b> complete	<b>Appearance and Odor:</b> blue liquid; non-objectionable odor
<b>pH (concentrate) =</b> 3.9	

**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 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.

**DISCLAIMER OF WARRANTIES**

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