

## 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 (1029C)

**Manufacturer's Name:** HILLYARD INDUSTRIES      **Product Name:** ARSENAL GREEN SELECT  
BATHROOM 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	68515-73-1 & 110615-47-9	not established	not established	N/A	---
Sodium Citrate	68-04-2	not established	not established	N/A	---
Glycolic Acid	79-14-1	not established	not established	N/A	---
Natural lavender fragrance	trade secret	not established	not established	N/A	---
VOC Concentrate = 0 g/1.; VOC (concentrate) 0%; VOC (Min. dilution) 0%					

### SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS

<b>Boiling Point:</b> 208°F	<b>Specific Gravity (H<sub>2</sub>O = 1):</b> 25°C = 1.06 & 39°C = 1.06
<b>Vapor Pressure (mm Hg.):</b> 17.5	<b>Percent Volatile by Volume (%):</b> 86.28
<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> green liquid; floral odor
<b>pH (concentrate) =</b> 4.33	

### SECTION IV – FIRE AND EXPLOSION HAZARD DATA

**Flash point:** None to 200°F (T.C.C.)      **Flammable Limits:** LEL = No data    UEL = N/A

**Extinguishing Media:** Carbon dioxide, Dry chemical, Foam, Water Spray.

**Special Fire Fighting Procedures:** Water spray may be used to cool closed containers. Use self-contained breathing apparatus.

**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? 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 product was an eye irritant. Not acutely toxic (oral) to rats at 5 gm/kg. per upper limit test. Acute inhalation = 1 hour upper limit test not toxic at 21.6 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:** None known by manufacturer.

**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 when 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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