

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:** July 22, 2009(version 4)**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	---
*Lavender fragrance	trade secret	not established	not established	N/A	---
VOC Concentrate = 0 g/l.; VOC (concentrate) 0%; VOC (Min. dilution) 0%					

***SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS**

Boiling Point: 208°F	Specific Gravity (H₂O = 1): 25°C = 1.06	*Density 8.80 lb/gl
Vapor Pressure (mm Hg.): 17.5	Percent Volatile by Volume (%): 86.28	
Vapor Density (AIR = 1): 0.6	Evaporation Rate (ethyl ether = 1): slower than 1	
Solubility in Water: complete	Appearance and Odor: green liquid; floral odor	
pH (concentrate) = 3.5 – 4.5	pH (diluted 1:20) = 4 - 5	

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.

DISCLAIMER OF WARRANTIES

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY NATURE ARE MADE WITH RESPECT TO THE PRODUCT(S) OR INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET.

The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate.

THE BUYER OR USER ASSUMES ALL RISKS ASSOCIATED WITH THE USE, MISUSE OR DISPOSAL OF THIS PRODUCT. THE BUYER OR USER IS RESPONSIBLE TO COMPLY WITH ALL FEDERAL, STATE OR LOCAL REGULATIONS CONCERNING THE USE, MISUSE OR DISPOSAL OF THESE PRODUCTS.