

HIL 0082895; H82906; 22-82922

#829

MATERIAL SAFETY DATA SHEET

NEPA 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 1.06 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.