H82706; 82706 HIL; HIL0082791; 22-82722

#827

MATERIAL SAFETY DATA SHEET

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

SECTION I – IDENTITY AND MANUFACTURRR'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 22, 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 (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

Boiling Point: 208°F
Specific Gravity (H_2O = 1): 25°C = 1.01 & 39°C = 1.01
Vapor Pressure (mm Hg.): 17.5
Percent Volatile by Volume (%): 97.3
Vapor Density (AIR = 1): 0.6
Evaporation Rate (ethyl ether = 1): slower than 1
Solubility in Water: complete
Appearance and Odor: blue liquid; non-objectionable odor
***pH (concentrate) =** 3.9
***pH (diluted 1:20) =** 5 - 6

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.