

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 (899B)

Manufacturer's Name: HILLYARD INDUSTRIES Product Name: ARSENAL CLEAN ACTION II CARPET EXTRACTION CLEANER

Address: 302 North Fourth Street Date Prepared: August 17, 1998
 St. Joseph, MO 64501 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. 2303)

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	---
Propylene Glycol N-Propyl Ether	1569-01-3	not established	not established	N/A	---
Sodium Lauryl Sulfate	151-21-3	not established	not established	N/A	---
Octylphenoxypolyethoxy Ethanol	9036-19-5	not established	not established	N/A	---

VOS = 0.45 lbs./gal. with water; or when diluted 1 oz./gallon = less than 1 %

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 206°F Specific Gravity (H₂O = 1): 25°C = 1.00 & 39°C = 1.00
 Vapor Pressure (mm Hg.): 17.4 Percent Volatile by Volume (%): 96.4
 Vapor Density (AIR = 1): 0.6 Evaporation Rate (ethyl ether = 1): slower than 1
 Solubility in Water: complete Appearance and Odor: clear, light green liquid; nonobjectionable odor
 pH (concentrate) = 9-9.8

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

Flash point: none (T.C.C.) Flammable Limits: LEL = N/A UEL = N/A
 Extinguishing Media: Water fog, carbon dioxide, foam, dry chemical
 Special Fire Fighting Procedures: Self-contained positive pressure breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.
 Unusual Fire and Explosion Hazards: N/A

SECTION V -- PHYSICAL HAZARDS

Stability: Stable Conditions to Avoid: N/A
 Incompatibility (Materials to Avoid): Avoid strong oxidizing agents or strong mineral acids.
 Hazardous Decomposition Products or Byproducts: Decomposition products under fire conditions: fumes of ammonia, carbon monoxide, carbon dioxide, oxides of nitrogen and various hydrocarbons
 Hazardous Polymerization: Will not occur Conditions to Avoid: N/A

SECTION VI -- HEALTH HAZARD DATA

Routes of entry: Inhalation? No Skin? No Ingestion? No

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. Not a primary skin irritant per Federal Hazardous Substance Act. Prolonged contact with skin may cause slight irritation.
 Test of concentrate showed eye irritation per the Federal Hazardous Substance Act. Concentrate not acutely toxic orally at 5 g/kg.

SECTION VI -- HEALTH HAZARD DATA continued.

Prolonged overexposure to dry residue may cause nose and throat irritation. A single brief (minutes) inhalation exposure is not likely to cause adverse effects. Not acutely toxic at 48.1 mg./L. (actual concentration = 29.0 mg./L.) Overexposure by inhalation may have anesthetic or narcotic effects. Notice: Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. 2. None known by Hillyard Industries.

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: Concentrate may be irritating to eyes if not removed promptly. Breathing of highly concentrated vapors or spray mists may cause irritation to the respiratory tract.

Medical Conditions Generally Aggravated by Exposure: N/A

Emergency and First Aid Procedures: In case of contact, immediately flush eyes with plenty of water for 15 minutes; get medical attention. If inhaled, remove to fresh air. If breathing is difficult, get medical attention.

SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Pick up with mop or wet vac and wash away with water.

Spills of concentrate should be picked up with wet vac and rinsed thoroughly.

Waste Disposal Method: Wash down sewer with large quantity of water. Container disposal: Triple rinse (or equivalent), then offer clean, dry container for recycling or reconditioning.

Precautions To Be Taken In Handling And Storing: Freezing of product may rupture container. Product shelf life is best retained by storage at 45-100°F temperature.

Other Precautions: This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Sec. 313 of SARA Title III Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR Part 372.

SECTION VIII -- CONTROL MEASURES

Respiratory Protection (Specify Type): Not required

Ventilation:

Local Exhaust = Not required **Mechanical (General) =** N/A **Special =** N/A **Other =** N/A

Protective Gloves: None required **Eye Protection:** Safety goggles suggested where splash of concentrate is a concern

Other Protective Clothing or Equipment: None required

Work / Hygienic Practices: Wash thoroughly after handling

SECTION IX - TRANSPORTATION INFORMATION

Applicable regulations: 49 CFR = no; IMCO = no; IATA = no

Proper shipping name: Cleaning compound

UN No.: not applicable **Limited Qty.:** not applicable **Hazard Class =** not applicable

Labels required: not required **DOT Exception:** not applicable

EPA Hazardous waste number / code: not listed

Hazardous waste characteristics:

Ignitability = not applicable; **Corrosivity =** not applicable; **Reactivity =** not applicable

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