

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 (#949A)

Manufacturer's Name: HILLYARD INDUSTRIES Product Name: ARSENAL BONNET CLEANER
 Address: 302 North Fourth Street Date Prepared: May 31, 2006
 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. 8285)

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	---
Linear Primary Alcohol Ethoxylate	68439-46-3	not established	not established	N/A	---
B-Alanine, N-(2-carboxyethyl)-N-[3-(Decyloxy) Monosodium Salt	64972-19-6)	not established	not established	N/A	---
Lauramine Oxide	1643-20-5	Not established	Not established	N/A	---
Sodium Xylene Sulfonate	1300-72-7	Not established	Not established	N/A	---
Tetrasodium Salt of EDTA	64-02-8	Not established	Not established	N/A	---

VOS = 0.28 lb./gal. – Diluted (1:20) VOS = 0.00%

SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 204°F Specific Gravity (H₂O = 1): 25°C = 1.02 & 39°C = 1.02
 Vapor Pressure (mm Hg.): 17.8 Percent Volatile by Volume (%): 87.8%
 Vapor Density (AIR = 1): 0.6 Evaporation Rate (ethyl ether = 1): slower than 1
 Solubility in Water : complete Appearance and Odor: Yellow liquid, Herbal odor
 pH (concentrate) = 7.69 pH (1:20) = 6.33

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash point: None to boiling 200°F (Tag Closed Cup) Flammable Limits: LEL = N/A UEL = N/A
 Extinguishing Media: Foam, dry chemical, carbon dioxide, water spray.
 Special Fire Fighting Procedures: None known to manufacturer.
 Unusual Fire and Explosion Hazards: Keep container closed when not in use.

SECTION V – PHYSICAL HAZARDS

Stability: Stable Conditions to Avoid: None known to Hillyard Industries.
 Incompatibility (Materials to Avoid): Strong oxidizing materials
 Hazardous Decomposition Products or Byproducts: As with any organic material, combustion will
 produce carbon dioxide, carbon monoxide, water and unidentified organic compounds.
 Hazardous Polymerization: Will not occur Conditions to Avoid: None known

SECTION VI – HEALTH HAZARD DATA

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

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. When tested according to the Federal Hazardous Substance Act concentrated product was not considered to be a skin irritant; prolonged contact with the concentrate may produce severe skin irritation. When tested according to the Federal Hazardous Substance Act concentrate was considered to be a primary eye irritant. Acute oral toxicity on concentrated product is greater than 5 g/kg. Concentrated product was not shown to be acutely toxic when administered at a nominal concentration of 37.9 mg./L (Actual concentration of 72.7 mg./l.) for one hour exposure. This was the maximum concentration that could be generated with this test system. 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%.

SECTION VI – HEALTH HAZARD DATA continued

Signs and Symptoms of Exposure: None known to Hillyard Industries.

Medical Conditions Generally Aggravated by Exposure: Respiratory tract irritations may be aggravated by nuisance dust from excess dried solids.

Emergency and First Aid Procedures: In case of contact immediately flush eyes or skin with plenty of water for at least 15 minutes. Call a physician if irritation persists.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Large spill: Absorb with an inert material such as sand, earth or vermiculite. Small spill: Pick up with wet vac or mop.

Waste Disposal Method: Dispose of waste in accordance with state and local regulations. Container disposal: Triple rinse (or equivalent), then offer clean, dry container for recycling or reconditioning.

Precautions To Be Taken In Handling And Storing: Prevent product from entering drinking water supplies or streams.

Other Precautions: This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Section 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): None required when used per label directions.

Ventilation:

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

Protective Gloves: Not required with normal use.

Eye Protection: Not required with normal use.

Other Protective Clothing or Equipment: No special clothing 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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