

MATERIAL SAFETY DATA SHEET

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

HMIS RATING: Health = / 1 Flammability = 0 Reactivity = 0

SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION (538N-77A)

Manufacturer's Name: HILLYARD INDUSTRIES Product Name: ARSENAL NEUTRALIZER

Address: 302 North Fourth Street

Date Prepared: December 10, 2007

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)

<http://www.hillyard.com>**SECTION II -- INGREDIENTS/IDENTITY INFORMATION****Components**

(Specific Chemical Identity:

Common Name(s)	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Dipropylene Glycol Methyl Ether	34590-94-8	100ppm	100ppm	STEL=150	1-4
Water	7732-18-5	N/A	N/A	N/A	---
EDTA Tripotassium salt	17572-97-3	N/A	N/A	N/A	---
B-Alanine, N-(2-carboxyethyl)-N-[3-(decyloxy) propyl] monosodium salt	64972-19-6	N/A	N/A	N/A	---
Linear Primary Alcohol Ethoxylate	68439-46-3	N/A	N/A	N/A	---

VOS = 2% (concentrate) or 0.22 lbs./gal.: VOS = 0.03% (diluted)

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 209°F

Specific Gravity (H₂O = 1): 25°C = 1.12 & 39°C = 1.12

Vapor Pressure (mm Hg.): 17.6

Percent Volatile by Volume (%): 74.5

Vapor Density (AIR = 1): 0.7

Evaporation Rate (ethyl ether = 1): slower than 1

Solubility in Water: complete

Appearance and Odor: blue, clear liquid; non-objectionable odor

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

Flash point: None (T.C.C.)

Flammable Limits: LEL = N/A UEL = N/A

Extinguishing Media: N/A

Special Fire Fighting Procedures: None

Unusual Fire and Explosion Hazards: None

SECTION V -- PHYSICAL HAZARDS

Stability: Stable

Conditions to Avoid: N/A

Incompatibility (Materials to Avoid): Aluminum and copper metal; strong oxidizers

Hazardous Decomposition Products or Byproducts: None known

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)

- Test showed that per the Federal Hazardous Substance Act this concentrated product was not considered to be a primary skin irritant; however, the concentrate did induce moderate irritation with complete recovery by day 11. The sample was considered to be a primary eye irritant per the Federal Hazardous Substance Act testing with complete recovery by day 14.
- None known

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

Medical Conditions Generally Aggravated by Exposure: None known

Emergency and First Aid Procedures: N/A

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.

Waste Disposal Method: Wash small quantities down sewer with large amount of water. Keep spills and cleaning runoffs out of municipal storm sewers and open bodies of water. Large spills should be picked up with wet vac or absorbent material. Landfill or incinerate solids. Dispose of liquid per local, state and federal regulations.

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 temperatures.

Other Precautions: Do not store or use in copper or aluminum containers. 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

Ventilation: N/A

Local Exhaust = N/A Mechanical (General) = N/A Special = N/A Other = N/A

Protective Gloves: None required

Eye Protection: N/A

Other Protective Clothing or Equipment: None required

Work / Hygienic Practices: Rinse concentrated Neutralizer off skin and clothing with water.

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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