

MATERIAL SAFETY DATA SHEET

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

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

SECTION I – IDENTITY AND MANUFACTURER'S INFORMATION (diluted 1:256)

Manufacturer's Name: HILLYARD INDUSTRIES

Product Name: ARSENAL TOP CLEAN RTU

Address: 302 North Fourth Street

Date Prepared: August 23, 1996

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	%
Water	7732-18-5	none	none	N/A	---
B-Alanine, N-(2-carboxyethyl)-N-[3-(decyloxy)propyl] monosodium salt (Amphoteric surfactant)	64972-19-6	not established	not established	N/A	---
Linear primary alcohol ethoxylate (nonionic surfactant)	68439-46-3	not established	not established	N/A	---

VOS = 0.001 lbs./gallon

SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 207°F Specific Gravity (H₂O = 1): 25°C = 1.00 & 39°C = 1.00
 Vapor Pressure (mm Hg.): 17.5 Percent Volatile by Volume (%): 99.93 %
 Vapor Density (AIR = 1): 0.6 Evaporation Rate (ethyl ether = 1): slower than 1
 Solubility in Water: complete Appearance and Odor: Clear, blue liquid; fresh & clean odor
 pH (concentrate) = 7 (diluted 1:256 with water)

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash point: None to boiling (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: None known to manufacturer

SECTION V – PHYSICAL HAZARDS

Stability: Stable Conditions to Avoid: None known to manufacturer
 Incompatibility (Materials to Avoid): None known to manufacturer.
 Hazardous Decomposition Products or Byproducts: None known to manufacturer.
 Hazardous Polymerization: Will not occur Conditions to Avoid: N/A

SECTION VI – HEALTH HAZARD DATA

Routes of entry: Inhalation? Yes Skin? Yes Ingestion? Yes

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. Not expected to be a skin nor an eye irritant when tested per the Federal Hazardous Substance Act. Fine fog mist application is not recommended.
2. None known to manufacturer.

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: Prolonged eye contact may cause mild irritation; prolonged skin contact may cause slight irritation. Ingestion may cause irritation to mouth, throat and stomach. May cause gastric tract disorder.

Medical Conditions Generally Aggravated by Exposure: Skin problems such as dermatitis may be aggravated by over-exposure.

Emergency and First Aid Procedures: In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. If skin or eye irritation persists get medical attention. If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Small spills: Flush with water and pick-up with mop or wet vac. Large spills may be absorbed with floor dry material.

Waste Disposal Method: Dispose of in accordance with all federal, state and local requirements.

Precautions To Be Taken In Handling And Storing: Keep away from children. Container disposal: Triple rinse (or equivalent) then offer clean, dry container for recycling or reconditioning. Waste from normal use may be sewerred to a public-owned treatment works in compliance with applicable federal, state and local requirements.

Other Precautions: Avoid breathing of vapors or fine fog mist. Use only with adequate ventilation. Do not breathe fine fog mist. Wash thoroughly after handling. Keep container closed when not in use. Do not get in eyes, on skin or on clothing. Do not take internally. This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Section 313 of SARA Title III Emergency Planning & Community Right to Know Act of 1986 and 40 CFR Part 372.

SECTION VIII – CONTROL MEASURES

Respiratory Protection (Specify Type): None normally required. Ventilate to keep air below TLV on metasilicate.

Ventilation: At least 10 air exchanges per hour suggested in public areas with good ventilation.

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

Protective Gloves: None normally need when used according to label directions with diluted product.

Eye Protection: None normally needed when used according to label directions with diluted product.

Other Protective Clothing or Equipment: Not usually necessary

Work / Hygienic Practices: Wash thoroughly after handling

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NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY NATURE ARE MADE WITH RESPECT TO THE PRODUCT(S) OR INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET.

The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate.

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