

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 (1069A)**Manufacturer's Name:** HILLYARD INDUSTRIES**Product Name:** ASSURANCE**Address:** 302 North Fourth Street
St. Joseph, MO 64501**Date Prepared:** January 30, 2007**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	ACGIH RECOMMENDED	%
Sodium Metasilicate (1)	6834-92-0	not established	not established	2 mg/m ³	3-8
Water	7732-18-5	none	none	N/A	---
Sodium Carbonate	497-19-8	not established	not established	N/A	---
Akyl imino acid, sodium salt	64972-19-6	not established	not established	N/A	---
Complex Blend of Surfactants	68991-48-0, 68439-46-3	not established	not established	N/A	---

(1) Exposure may be evaluated as ceiling for Sodium hydroxide per OSHA: PEL = 2 mg/m³ or TLV = 2 mg/m³.**SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS**

Boiling Point: 215°F **Specific Gravity (H₂O = 1):** 25°C = 1.08 & 39°C = 1.08
Vapor Pressure (mm Hg.): 17.6 **Percent Volatile by Volume (%):** 88 %
Vapor Density (AIR = 1): 0.6 **Evaporation Rate (ethyl ether = 1):** slower than 1
Solubility in Water: complete **Appearance and Odor:** Clear, orange liquid; lemon odor
pH (concentrate) = 13.0

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): Avoid strong oxidizing agents. Do not use with aluminum equipment at temperatures above 120°F.
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. According to Primary Skin Irritation Test (FHSA), product concentrate is not a primary skin irritant. Product concentrate may induce moderate skin irritation on prolonged exposure; Eye Irritation Test (FHSA) = eye irritant. Product concentrate may induce eye corrosion on prolonged exposure. When tested as specified this product was not considered to be a UN/DOT corrosive at 4 hours. Harmful if swallowed.

2. Inhalation of fine fog mist can cause irritation of mucous membranes. Fine fog mist application is not recommended.

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: Direct eye contact can cause irritation; prolonged skin contact may cause moderate 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 exposure to concentrated product.

Emergency and First Aid Procedures: If swallowed, immediately give large amounts of water and call a physician. In case of contact, immediately flush eyes or skin with plenty of water for 15 minutes. For eyes, GET PROMPT MEDICAL ATTENTION IMMEDIATELY. If skin irritation persists, get medical attention.

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 sewered 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 with adequate ventilation. Open windows and doors, use exhaust fans or other means to insure fresh air entry during application and drying. Refer to OSHA STANDARD 29 CFR 1910.94 for technical guidelines on keeping air contamination below applicable exposure limits. 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 required **Eye Protection:** Chemical goggles where splashing of concentrate is a concern

Other Protective Clothing or Equipment: Not usually necessary

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 =** applicable; **Reactivity =** not applicable

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