

MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 2 Flammability = 0 Reactivity = 0

HMIS RATING: Health = 2 Flammability = 0 Reactivity = 0

SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION (1124A)

Manufacturer's Name: HILLYARD INDUSTRIES

Product Name: ASSAULT

Address: 302 North Fourth Street
St. Joseph, MO 64501

Date Prepared: January 31, 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	OTHER LIMITS RECOMMENDED	%
Ethanolamine (1)	141-43-5	3ppm	3ppm	N/A	3-5
Sodium metasilicate (2)	6834-92-0	not established	not established	2 mg/M ³	1-3
Water	7732-18-5	none	none	N/A	---
Sodium xylene sulfonate	1300-72-7	not established	not established	N/A	---
Ethylene glycol monophenyl ether	122-99-6	not established	not established	N/A	---
1-Butoxy-2-propanol	5131-66-8	not established	not established	N/A	---

(1) Regulated by OSHA and the following states: CT, FL, IL, LA, MA, NJ, PA, RI.

(2) Exposure may be elevated as ceiling for Sodium hydroxide per OSHA: PEL = 2 mg/M³ or TLV = 2 mg/M³.

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 208°F	Specific Gravity (H ₂ O = 1): 25°C = 1.02 & 39°C = 1.02
Vapor Pressure (mm Hg.): 17.0	Percent Volatile by Volume (%): 95%
Vapor Density (AIR = 1): 1.0	Evaporation Rate (ethyl ether = 1): slower than 1
Solubility in Water: complete	Appearance and Odor: Clear, light amber liquid; mild solvent odor
pH (concentrate) = 12-13	

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

Flash point: None to 200°F Flammable Limits: LEL = N/A UEL = N/A

Extinguishing Media: Water, carbon dioxide, dry chemical or foam

Special Fire Fighting Procedures: Normal fire fighting procedures may be used. Cool and cautiously approach or handle fire-exposed containers.

Unusual Fire and Explosion Hazards: N/A

SECTION V -- PHYSICAL HAZARDS

Stability: Stable Conditions to Avoid: N/A

Incompatibility (Materials to Avoid): Oxidizing materials and strong acids

Hazardous Decomposition Products or Byproducts: When exposed to fire, produces normal products of combustion.

Hazardous Polymerization: Will not occur Conditions to Avoid: None known to Hillyard

SECTION VI -- HEALTH HAZARD DATA

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

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. Direct contact with concentrate in eyes can cause severe irritation and damage.

2. Prolonged and repeated exposure to the skin may produce irritation.

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 cont.

Signs and Symptoms of Exposure: Concentrated product may produce eye burns or moderate skin irritation. Ingestion may produce burns of the mouth, throat, esophagus and stomach.

Medical Conditions Generally Aggravated by Exposure: Skin problems such as industrial dermatitis

Emergency and First Aid Procedures: In case of contact immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. If swallowed, do not induce vomiting; immediately give large amounts of water and CALL A PHYSICIAN, hospital emergency room or poison control center.

Inhalation - Remove victim to fresh air; if respiratory tract remains irritated, CALL A PHYSICIAN.

SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Absorb with floor dry or similar inert material. Sweep or scrape up and put in appropriate container. Rinse spill area thoroughly with water. Use appropriate protective equipment.

Waste Disposal Method: Disposal of concentrate regulated by Federal Resource Conservation and Recovery Act as a corrosive waste (40 CFR 261.22). Disposal of regulated quantities should be neutralized at a permitted facility in accordance with federal/state/local regulations (corrosive waste-pH concentrate = 12-13). Waste from normal product use may be sewered to public-owned treatment works in compliance with applicable federal, state and local pretreatment requirements.

Precautions To Be Taken In Handling And Storing: Keep container closed when not in use. Container disposal: Triple rinse (or equivalent), then offer clean, dry container for recycling or reconditioning.

Other Precautions: Do not use with fog mist or fine droplet sprayer without respiratory protection. 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 40 CFR Part 372.

SECTION VIII -- CONTROL MEASURES

Respiratory Protection (Specify Type): Ventilate to keep air concentration below TLV on monoethanolamine and sodium metasilicate.

Ventilation:

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

Protective Gloves: Impervious gloves when working with concentrate **Eye Protection:** Chemical safety goggles when working with concentrate

Other Protective Clothing or Equipment: Impervious to water and alkaline liquid where concentrate is a concern.

Work / Hygienic Practices: Wash thoroughly after handling.

SECTION IX - TRANSPORTATION INFORMATION

Applicable regulations: DOT = 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 =** yes; **Reactivity =** not applicable

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