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 Date Prepared: January 31, 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

			OTHER LIMITS	
CAS#	OSHA PEL	ACGIH TLV	RECOMMENDED	%
141-43-5	3ppm	3ppm	N/A	3-5
6834-92-0	not established	not established	2 mg/M^3	1-3
7732-18-5	none	none	N/A	
1300-72-7	not established	not established	N/A	
122-99-6	not established	not established	N/A	
5131-66-8	not established	not established	N/A	
	141-43-5 6834-92-0 7732-18-5 1300-72-7 122-99-6	141-43-5 3ppm 6834-92-0 not established 7732-18-5 none 1300-72-7 not established 122-99-6 not established	141-43-5 3ppm 3ppm 6834-92-0 not established not established 7732-18-5 none not established 1300-72-7 not established not established 122-99-6 not established not established	CAS#OSHA PELACGIH TLVRECOMMENDED141-43-53ppm3ppmN/A6834-92-0not establishednot established2 mg/M³7732-18-5nonenoneN/A1300-72-7not establishednot establishedN/A122-99-6not establishednot establishedN/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: $PEL = 2 \text{ mg/M}^3 \text{ or } TLV = 2 \text{ mg/M}^3$.

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 208°F **Specific Gravity** ($H_2O = 1$): 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 or 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

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

concentrate 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 Oty.: not applicable Hazard Class: not applicable

Labels required: <u>not required</u> **DOT Exception:** <u>not applicable</u>

EPA Hazardous waste/number code: not listed

Hazardous waste characteristics:

Ignitability = not applicable; **Corrosivity** = yes; **Reactivity** = not applicable

DISCLAIMER OF WARRANTIES

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