

Material Safety Data Sheet

NFPA Rating: Health = 3, Flammability = 0, Reactivity = 0
 HMIS Rating: Health = 3, Flammability = 0, Reactivity = 0

#148

SECTION I — IDENTITY AND MANUFACTURER'S INFORMATION (0701A)

Manufacturer's Name HILLYARD INDUSTRIES	Product Name ASSAULT
Address 302 North Fourth Street St. Joseph, MO 64502	Date Prepared May 18, 1992
Prepared by Regulatory Affairs Department	

Emergency Telephone No.: CHEMTREC (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. 303)

SECTION II — INGREDIENTS/IDENTITY INFORMATION

Components (Specific Chemical Identity; Common Name(s))	CAS #	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (Optional)
Butyl cellosolve (2-Butoxyethanol) (1)*	111-76-2	25 ppm	25 ppm	N/A	20-25
Ethanolamine (2)	141-43-5	3 ppm	3 ppm	N/A	10-15
Water	7732-18-5	none	none	N/A	---

VOC = 237.39 g/l.; VOC less water, less exempt solvents = 634.05 g/l. (California South Coast Air Management District Rule 443.1)

(1) Regulated by OSHA, FL, IL, LA, MA, NJ, PA, RI

(2) Regulated by OSHA, CT, FL, IL, LA, MA, NJ, PA, RI

* This product contains the following chemical subject to reporting requirements of SARA Title III, Sec. 313, and 40 CFR, Part 372: 2-Butoxyethanol.

SECTION III — PHYSICAL/CHEMICAL CHARACTERISTICS

		pH (conc.) avg.	11.8
Boiling Point	212°F	Specific Gravity (H ₂ O = 1)	39°C 0.9831
Vapor Pressure (mm Hg.)	20°C 15.8	Percent Volatile By Volume (%)	99.8
Vapor Density (Air = 1)	1.6	Evaporation Rate (ethyl ether = 1)	slower than 1
Solubility in Water	appreciable	Appearance and Odor	pale yellow liquid; mild non-objectionable odor

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used) none (T.C.C.)	Flammable Limits	LEL N/A	UEL N/A
--	------------------	------------	------------

Extinguishing Media
 Carbon dioxide, dry chemical or foam (water spray to cool closed containers)

Special Fire Fighting Procedures
 Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.

Unusual Fire and Explosion Hazards
 None known to Hillyard.

SECTION V — PHYSICAL HAZARDS

Stability Unstable Conditions
 Stable to Avoid N/A

Incompatibility
 (Materials to Avoid)
 Keep away from strong oxidizers such as permanganate or strong oxides.

Hazardous Decomposition
 Products Or Byproducts
 As with any organic material, combustion will produce carbon dioxide and carbon monoxide.

Hazardous Polymerization May Occur Conditions
 Will Not Occur To Avoid N/A

19

#148, Assault

SECTION VI -- HEALTH HAZARD DATA

5/18/92

Route(s) of Entry: Inhalation? yes Skin? yes Ingestion? yes

Health Hazards (1. Acute and 2. Chronic)
1. Corrosive to all body tissue with which it comes in contact.
2. Chronic local effects may consist of multiple areas of superficial destruction of the skin or dermatitis.

Chemical Listed as Carcinogen or Potential Carcinogen National Toxicology Program Yes No I.A.R.C. Monographs Yes No OSHA Yes No

Signs and Symptoms of Exposure
Butyl cellosolve is readily absorbed through the skin in toxic amounts. Inhalation of high concentrations of vapors results in respiratory and eye irritation, narcosis, headache, nausea, dizziness, hematuria and damage to liver and kidneys.

Medical Conditions
Generally Aggravated by Exposure
Repeated overexposure may result in damage to the blood.

Emergency and First Aid Procedures
Inhalation: Remove person to fresh air. If breathing difficulty persists or occurs later, call physician. Skin and eye contact: Immediately flush with plenty of water for 15 minutes. Get prompt medical attention. Remove and wash all contaminated clothing before reuse. Ingestion: Immediately give large amounts of water and CALL A PHYSICIAN, hospital emergency room or poison control center.

SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled
Absorb large spills with floor dry material (see disposal below). Small spills: Flush with water and pick up with mop or wet vacuum.

Waste Disposal Method
Dispose of in accordance with state or local regulations. Do not dispose of in storm drains or streams; monoethanolamine is toxic to fish.

Precautions To Be Taken In Handling And Storing
Keep container closed when not in use. Since empty packages retain product residue, follow label warning even after package is empty. Do not store above 120 F. Spray mist may produce respiratory irritation or damage and increase susceptibility to respiratory illness. USE WITH ADEQUATE VENTILATION. Avoid breathing vapors or spray mist. 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 acceptable exposure limits. Do not get on skin, in eyes or on clothing.

SECTION VIII -- CONTROL MEASURES

Respiratory Protection (Specify Type) Wear appropriate, properly fitted respirator (NIOSH or MSHA approved) unless air monitoring demonstrates vapor or mist levels are below applicable limits.

Ventilation at least 10 air chgs/hr. recommended Local Exhaust recommended Mechanical (General) recommended Special N/A Other N/A

Protective Gloves impervious rubber gloves Eye Protection chemical safety goggles

Other Protective Clothing Or Equipment protective clothing such as uniforms, coveralls

Work/Hygienic Practices Wash contaminated clothing before reuse (including shoes).

DISCLAIMER OF WARRANTIES
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. THE BUYER OR USER ASSUMES ALL RISKS ASSOCIATED WITH THE USE, MISUSE OR DISPOSAL OF THIS PRODUCT. THE BUYER OR USER IS RESPONSIBLE TO COMPLY WITH ALL FEDERAL, STATE OR LOCAL REGULATIONS CONCERNING THE USE, MISUSE OR DISPOSAL OF THESE PRODUCTS.