



# MATERIAL SAFETY DATA SHEET

2-Hydroxyethyl Methacrylate

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## Section 1 - Chemical Product and Company Identification

PRODUCT NAME: 2-Hydroxyethyl Methacrylate  
CAS NUMBER: 868-77-9 FORMULA:  $C_6H_{10}O_3$   
CHEMICAL NAME: Same FORMULA WT.: 130.1  
MSDS NUMBER: BM903

MONOMER-POLYMER & DAJAC LABORATORIES, INC. 1675 BUSTLETON PIKE FEASTERVILLE, PA 19053	<p>NFPA HEALTH 2 FIRE 1 SPEC. HAZ None REACT 1</p>
EMERGENCY TELEPHONE NUMBER (CHEMTREC): (800) 424-9300 or (703) 527-3887 INFORMATION TELEPHONE NUMBER: (215) 364-1155	
PREPARED BY: Michael A. Burns June 10, 2003	
SUPERSEDES: 8-23-99	

## Section 2 - Composition / Information on Ingredients

CAS NUMBER	HAZARDOUS COMPONENT	NTP	IARC	SUB-PART Z	SARA 313	OSHA PEL	ACGIH TLV	OTHER LIMITS	PERCENT
868-77-9	2-Hydroxyethyl Methacrylate	N	N	N	N	N/D	N/D	N/D	97%min

## Section 3 - Hazards Identification

**ROUTE(S) OF ENTRY:** Mouth and skin contact

**HEALTH HAZARDS (ACUTE AND CHRONIC):**

**EYES:** May cause eye irritation.

**SKIN:** May cause skin irritation.

**INHALATION:** May cause respiratory system irritation.

**INGESTION:** May be harmful if swallowed.

**SIGNS OF OVEREXPOSURE:** Respiratory irritation, dizziness, nausea, loss of consciousness

**OTHER HEALTH WARNINGS:** None noted



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## Section 4 - First Aid Measures

**EYE CONTACT:** Remove contact lenses immediately. Wash with copious amounts of water for at least 15 minutes. Do not rub eyes. Seek medical attention immediately.

**SKIN CONTACT:** Wash thoroughly with soap and water. Remove contaminated clothing. If symptoms persist, call a physician.

**INHALATION:** Move to fresh air. Seek medical attention.

**INGESTION:** If swallowed, immediately drink a large quantity of milk or water and call a physician.

## Section 5 - Fire-Fighting Measures

**FLASH POINT:** 214°F (P.-M.C)    **FLAMMABLE LIMITS:** N/D    **LEL:** N/D    **UEL:** N/D

**EXTINGUISHING MEDIA:** Dry chemical, foam, carbon dioxide. Water fogs should be used to cool containers exposed to extreme heat.

**SPECIAL FIRE FIGHTING PROCEDURES:** Cool fire-exposed containers with water. Use self-contained breathing apparatus in confined areas.

**UNUSUAL FIRE FIGHTING PROCEDURES:** N/D

## Section 6 - Accidental Release Measures

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

**FOR LARGE SPILLS:** Evacuate area. Ventilate area. Wear self-contained breathing apparatus, protective clothes, rubber gloves and boots. Add dry material to absorb spill (If large spill, dike to contain). Using recommended protective equipment, pick up bulk of spill and containerize for recovery or disposal. Flush area with water to remove residues.

**FOR SMALL SPILLS:** Pick up with flame retardant treated absorbant and dispose of according to all applicable regulations.

## Section 7 - Handling and Storage

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Use safety goggles and chemical resistant rubber gloves and clothes. Wear appropriate NIOSH/MSHA-approved respirator with organic vapor cartridge N/A with local exhaust. Store in a tightly closed container in a dry, cool(<30°C (86°F)) area. Avoid initiators, heat or UV-light. Avoid contact with the material. Avoid prolonged or repeated exposure. Lab should be equipped with a safety shower and an eye wash station. Wash thoroughly after handling material. Keep away from heat and open flames. Material should only be handled by qualified, experienced professionals.

**OTHER PRECAUTIONS:** Store at the temperature below 86°F in tightly closed containers. Avoid exposure to heat, sunlight and Ultra-violet.



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## Section 8 - Exposure Controls / Personal Protection

**VENTILATION REQUIREMENTS:** Ventilation should be designed in accordance with good engineering practices.

**PERSONAL PROTECTIVE EQUIPMENT:**

**RESPIRATORY PROTECTION:** Wear appropriate NIOSH/MSHA-approved respirator with organic vapor cartridge  
N/A with local exhaust.

**EYE PROTECTION:** Splashproof goggles or face shield (ANSI Z87.1 or approved equivalent).

**DERMAL PROTECTION:** Protect all exposed skin from contact. Use impermeable gloves made of chemically inert material. Use chemically resistant apron or other chemically impervious clothing to avoid prolonged or repeated skin contact.

**OTHER:** Eyewash and safety showers should be available in areas where this product is handled.

## Section 9 - Physical and Chemical Properties

<b>SOLUBILITY IN WATER:</b>	Complete miscible	<b>SPECIFIC GRAVITY (H<sub>2</sub>O = 1)</b>	1.073
<b>APPEARANCE AND ODOR:</b>	Colorless liquid with ester-like odor.	<b>BOILING POINT</b>	67°C @ 3.5mmHg
<b>OTHER INFORMATION:</b>	N/A	<b>MELTING POINT</b>	< -60°C

## Section 10 - Stability and Reactivity

**STABILITY:** Stable at room temperature

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Carbon monoxide, carbon dioxide, formic acid and formaldehyde.

**HAZARDOUS POLYMERIZATION:** May polymerize under high temperature or in contact with strong oxidants and free radicals generators.

**INCOMPATIBILITY:**

**MATERIALS TO AVOID:** Materials generating free radicals, strong oxidizing agents and bases.

## Section 11 - Toxicological Information

<b>ACUTE TOXICITY</b>	Orl-rat	LD50	5050 mg/kg	GISAAA	54(9):75, 1989
	Inp-rat	LD50	1250 mg/kg	AMPMAR	36:58, 1975
	Orl-mou	LD50	3275 mg/kg	GISAAA	54(9):75, 1989
	Inp-mou	LD50	497 mg/kg	JPMSAE	62:778, 1973
	Orl-Gpig	LD50	4680 mg/kg	GISAAA	54(9):75, 1989
	Derm-rab	LD50	>3000 mg/kg		



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## Section 12 - Ecological Information

No information is available.

## Section 13 - Disposal Considerations

**WASTE DISPOSAL METHOD:** If reclamation is not possible, dispose of material in accordance with all Federal, State and Local regulations. Incineration is the preferred method. Empty containers must be handled with care due to product residue. **DO NOT HEAT OR CUT THE EMPTY CONTAINERS WITH ELECTRIC OR GAS TORCH.**

## Section 14 - Transport Information

### DOT TRANSPORTATION DATA:

PROPER SHIPPING NAME: N/A  
HAZARD CLASS: N/A  
IDENTIFICATION NUMBER: Not regulated.  
PACKING GROUP: N/A  
LABEL: N/A  
SPECIAL PROVISIONS: N/A

## Section 15 - Regulatory Information

CERCLA REPORTABLE QUANTITY: Not reportable at the size we sell under 40 CFR Part 302.4

RCRA STATUS: Not subject to the 40 CFR Part 268.30 land ban on the disposal of certain hazardous wastes.

### SARA TITLE III STATUS:

SECTION 311/312: Hazard Classifications: None

SECTION 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:  
None

### TSCA

This product or its components are listed in or exempt from the TSCA inventory requirements. This product contains the following non-proprietary substances subject to export notification under Section 12(b) of TSCA:

None



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## State Regulations

New Jersey This product contains the following non-hazardous components subject to disclosure under New Jersey Right-To-Know legislation:

None

Pennsylvania This product contains the following non-hazardous components subject to disclosure under Pennsylvania Right-To-Know legislation:

None

California  
(Proposition 65) This product contains the following substances known to the State of California to cause cancer:

None

This product contains the following substances known to the State of California to cause adverse reproductive effects:

None

## International Regulations

Summary of International Chemical Inventory Status

Canada	On inventory
Europe	On inventory

## Section 16 - Other Information

Ratings Key: 4 = Highest hazard, 0 = Lowest hazard, N = No rating for powders

### ADDITIONAL MANUFACTURER WARNINGS:

Store only in closed, properly labeled containers.

Do not use cutting or welding torches on drums which contained this product unless they have been properly cleaned and purged.

Use only with adequate ventilation.

Do not eat, drink or smoke in work areas. Wash hands with soap and water prior to eating or using toilet facilities and at the end of the work shift. Launder contaminated clothing prior to reuse.

**OTHER PRECAUTIONS AND COMMENTS:** N/E

PREVIOUS REVISION DATE:

N/A = Not Applicable



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N/AV= Not available

N/D = Not Determined

N/E = Not Established

S = Suspected

ST = Short Term Exposure Limit

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\*\*\*\* END MSDS \*\*\*\*