

# SPI Supplies Division

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Manufacturer's CAGE: 1P573

# Material Safety Data Sheet

Date Effective: May 11, 2015

SPI Catalog# 02826-AB

SPI-Chem™ Technical GMA Monomer 2-hydroxyethyl methacrylate

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## Section 1: Identification

Chemical Name/Synonyms..... Glycol methacrylate; 2-Hydroxyethyl methacrylate

Chemical family.....methacrylates

Emergencies

Contacting CHEMTREC:

24 Hour Emergency Use Only #'s...

Worldwide phone: 1-(703)-527-3887

Worldwide FAX: 1-(703)-741-6090

Toll-free phone: 1-(800)-424-9300 USA only

Product or Trade Name.....2-Hydroxyethyl methacrylate

CAS #'s.....868-77-9

EC# 212-782-2

Chemical Formula.....C<sub>6</sub>H<sub>10</sub>O<sub>3</sub>

GHS Classification

Skin sensitization: Category 1

Skin irritation: Category 2

Eye irritation: Category 2a



Warning

Hazard Statements:

H313: May be harmful in contact with skin

H315: Causes skin irritation

H317: May cause an allergic skin reaction

H319: Causes serious eye irritation

Precautionary Statements:

P201: Obtain special instructions before use

P233: Keep container tightly closed

P261: Avoid breathing dust/fume/gas/mist/vapors/spray  
P280: Wear protective gloves/protective clothing/eye protection  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.  
P333+313: If skin irritation or a rash occurs: Get medical advice/attention  
P337+313: If eye irritation persists get medical advice/attention

Hazardous Material Information System USA

Health.....2  
Fire Hazard.....1  
Reactivity.....1  
Personal Protection.....

NFPA Rating (estimated)

Health.....2  
Flammability.....1  
Reactivity.....1

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## Section 2: Composition

CAS#	Hazardous Component	Percentage	EC#
868-77-9	2-Hydroxyethyl Methacrylate	97%	212-782-2

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## Section 3: Hazard Identification

Routes 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: Non 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, seek medical attention.

Inhalation: Move to fresh air. Seek medical attention.

Ingestion: If swallowed, immediately drink a large quantity of milk or water and seek medical attention.

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## Section 5: Fire Fighting Measures:

Flash Point: 214°F

Flammable Limits:

LEL: Not determined

UEL: Not determined

Special Fire Fighting Procedures: Cool fire-exposed containers with water. Use self-contained breathing apparatus in confined areas.

Unusual Fire Fighting Procedures: Not determined

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## Section 6: Accidental Release Measures

For small spills: Pick up with flame retardant treated absorbant and dispose of according to all applicable regulations.

For large spills: Evacuate the area. Ventilate the area. Wear self-contained breathing apparatus, protective clothes, rubber gloves and boots. Add dry material to absorb spill. If large, 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.

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## Section 7: Handling and Storage

Work area should be equipped with a safety shower and eye wash station.

Use safety goggles and chemical resistant rubber gloves and clothes. Wear appropriate NIOSH/MSHA approved respirator with organic vapor cartridge if local exhaust not available.

Store in a tightly closed container in a dry, cool area. Avoid initiators, heat or UV-light. Keep away from heat and open flame.

Avoid contact with the material. Avoid prolonged or repeated exposure. Wash thoroughly after handling material. Material should only be handled by qualified, experienced professionals.

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## Section 8: Exposure Controls and Personal Protection

Eyewash and Safety Shower must be available to the work area.

Ventilation should be in accordance with good engineering practices.

Respiratory Protection: Wear appropriate NIOSH/MSHA approved respirator with organic vapor cartridge .

Eye Protection: Splash-proof goggles or face shield, ANSI Z87.1 or approved equivalent.

Skin Protection: Impermeable gloves made of chemically inert material, chemically resistant apron or other chemically impervious clothing to avoid prolonged or repeated skin contact.

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## Section 9: Physical and Chemical Properties

Appearance: Colorless Liquid

Odor: Ester-like odor

Boiling Point: 250°C @1013 mbar

Melting Point: <-60°C

Specific Gravity (water=1): 1.073

Solubility in water: Completely miscible

Other Information: Not available

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## Section 10: Stability and Reactivity

Stability: Stable at room temperature

Hazardous decomposition or by-products: Carbon monoxide, carbon dioxide, formic acid, formaldehyde

Hazardous Polymerization: May occur

Incompatibility – Materials/Conditions to Avoid – Elevated temperatures, free-radical generators, peroxides and other oxidizers, reducers, light and UV-light, and heavy metal ions

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## Section 11: Toxicological Information

Acute toxicity

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
Derm-rab	LD50	>3000		

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## Section 12: Ecological Information

No information available

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## Section 13: Disposal Considerations

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.

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## Section 14: Transport Information

Not regulated for transport.

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## Section 15: Regulatory Information

CERCLA: 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: This product is not classified under Section 311/312, nor is it subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Re-authorization Act of 1986 and 40 CFR Part 371.

TSCA: This product is on the TSCA inventory.

TSCA 12b: This product is not listed under TSCA 12b.

This product is not listed under the New Jersey or Pennsylvania Right-to-Know legislation.

California Prop. 65: This product is not listed by the State of California as known to cause cancer or known to cause adverse reproductive effects.

CANADA: CAS# 868-77-9 is listed on the DSL List.

CAS# 868-77-9 has a WHMIS classification of D2B.

European/International Regulations

Hazard Symbols: Xi

Risk Phrases:

R36/28: Irritating to Eyes & Skin

R43: May cause sensitization by skin contacting

Safety Phrases:

S2: Keep out of reach of children

S26: In case of contact with eyes, rinse intermediately with plenty of water and seek medical

advice

S28: After contact with skin, wash immediately with plenty of soap & water

WGK: CAS# 868-77-9: 1

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## Section 16: Other Information

### Disclaimer of Liability:

Caution! Do not use SPI Supplies products or materials in applications involving implantation within the body; direct or indirect contact with the blood pathway; contact with bone, tissue, tissue fluid, or blood; or prolonged contact with mucous membranes. Products offered by SPI Supplies are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. SPI Supplies will not provide to customers making devices for such applications any notice, certification, or information necessary for such medical device use required by US FDA (Food and Drug Administration) regulation or any other statute. SPI Supplies and Structure Probe, Inc. make no representation, promise, express warranty or implied warranty concerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues of fluids.

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