HYDROXYPROPYL METHACRYLATE

CAUTIONARY RESPONSE INFORMATION Common Synonyms Liauid Slight unpleasant 1,2-Propanediol 1-methacrylate Propylene glycol monomethacrylate May float or sink in water Keep people away. Avoid contact with liquid and vapor Shut off ignition sources. Call fire department. Notify local health and pollution control agencies CONTAINERS MAY EXPLODE IN FIRE. Extinguish with dry chemicals, foam or carbon dioxide. Water may be ineffective on fire. Cool exposed containers with water. COMBAT FIRES FROM SAFE DISTANCE OR PROTECTED LOCATION. CALL FOR MEDICAL AID. **Exposure** Irritating to eyes, nose and throat. If inhaled will cause coughing or difficult breathing. If in eyes, hold eyelids open and flush with plenty of water. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. LIQUID LIQUID Will burn eyes, Irritating to eyes. If swallowed will cause nausea and vomiting, Remove contaminated clothing and shoes. Flush affected areas with plenty of water. IF IN EYES, hold eyelids open and flush with plenty of water. IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk. IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CONVULSIONS, do nothing except keep victim warm. Effect of low concentrations on aquatic life is unknown. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes. Water **Pollution**

Dilute and disperse Stop discharge

2. CHEMICAL DESIGNATIONS

- CG Compatibility Group: Not listed. Formula: CH5CHOHCH:CDCOC(CHs) = CH2 IMO/UN Designation: Not listed DOT ID No.: Not listed DOT ID No.: Not listed CAS Registry No.: Currently not available NAERG Guide No.: Not listed Standard Industrial Trade Classification: 51373

3. HEALTH HAZARDS

- 3.1 Personal Protective Equipment: Goggles or face shield; rubber gloves
- 3.2 Symptoms Following Exposure: Inhalation causes coughing and irritation of nose and throat; lung injury may occur. Ingestion causes irritation and burning of mouth and stomach. Contact of vapor with eyes causes irritation. Liquid may cause severe eye burns and irritation of skin.
- 3.3 Treatment of Exposure: INHALATION: remove victim to fresh air; if required, start artificial respiration and call a doctor. INGESTION: force milk or water at once; get medical attention. EYES: flush with water for at least 15 min.; get medical attention if irritation persists. SKIN: flush with water; get medical attention for burns.
- 3 4 TI V-TWA: Not listed
- 3.5 TLV-STEL: Not listed. 3.6 TLV-Ceiling: Not listed.
- 3.7 Toxicity by Ingestion: Grade 1; LD₅₀ = 5-500 g/kg (mouse)
- Toxicity by Inhalation: Currently not available
- 3.9 Chronic Toxicity: Currently not available
- 3.10 Vapor (Gas) Irritant Characteristics: Currently not available
- 3.11 Liquid or Solid Characteristics: Currently not available
- 3.12 Odor Threshold: Currently not available
- 3 13 IDI H Value: Not listed 3.14 OSHA PEL-TWA: Not listed.
- 3.15 OSHA PEL-STEL: Not listed
- 3.16 OSHA PEL-Ceiling: Not listed.
- 3.17 EPA AEGL: Not listed

4. FIRE HAZARDS

- 4.1 Flash Point: 250°F O.C.
- **4.2 Flammable Limits in Air:** Currently not available
- **4.3 Fire Extinguishing Agents:** Foam, dry chemical, carbon dioxide
- **4.4 Fire Extinguishing Agents Not to Be Used:** Water may be ineffective.
- 4.5 Special Hazards of Combustion Products: Currently not available
- 4.6 Behavior in Fire: Compound may
- polymerize when hot and burst container. **4.7 Auto Ignition Temperature:** Currently not available
- 4.8 Electrical Hazards: Currently not
- 4.9 Burning Rate: Currently not available
- 4.10 Adiabatic Flame Temperature: Currently not available
- 4.11 Stoichometric Air to Fuel Ratio: 40.5 (calc.)
- **4.12 Flame Temperature:** Currently not available
- 4.13 Combustion Molar Ratio (Reactant to Product): 13.0 (calc.)
- 4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed

5. CHEMICAL REACTIVITY

- 5.1 Reactivity with Water: No reaction
- 5.2 Reactivity with Common Materials: Currently not available
- 5.3 Stability During Transport: Stable 5.4 Neutralizing Agents for Acids and Caustics: Not pertinent
- 5.5 Polymerization: May polymerize when hot or when exposed to ultraviolet light and free-radical catalysts.
- 5.6 Inhibitor of Polymerization: 200 ppm hydroquinone

6. WATER POLLUTION

- 6.1 Aquatic Toxicity:
- Currently not available
 6.2 Waterfowl Toxicity: Currently not
- 6.3 Biological Oxygen Demand (BOD): Currently not available
- 6.4 Food Chain Concentration Potential:
- 6.5 GESAMP Hazard Profile: Not listed

7. SHIPPING INFORMATION

- 7.1 Grades of Purity: Commercial, 95+%
- 7.2 Storage Temperature: Ambient
- 7.3 Inert Atmosphere: No requirement
- 7.4 Venting: Open
- 7.5 IMO Pollution Category: Currently not available
- 7.6 Ship Type: Currently not available
- 7.7 Barge Hull Type: Currently not available

8. HAZARD CLASSIFICATIONS

- 8.1 49 CFR Category: Not listed
- 8.2 49 CFR Class: Not pertinent
- 8.3 49 CFR Package Group: Not listed.
- 8.4 Marine Pollutant: No
- 8.5 NFPA Hazard Classification: Not listed
- 8.6 EPA Reportable Quantity: Not listed.
- 8.7 EPA Pollution Category: Not listed.
- 8.8 RCRA Waste Number: Not listed
- 8.9 EPA FWPCA List: Not listed

9. PHYSICAL & CHEMICAL PROPERTIES

- 9.1 Physical State at 15° C and 1 atm: Liquid
- 9.2 Molecular Weight: 144
- 9.3 Boiling Point at 1 atm: Not pertinent (decomposes)
- 9.4 Freezing Point: Not pertinent
- 9.5 Critical Temperature: Not pertinent
- 9.6 Critical Pressure: Not pertinent
- 9.7 Specific Gravity: 1.06 at 20°C (liquid)
- 9.8 Liquid Surface Tension: Currently not
- 9.9 Liquid Water Interfacial Tension: Currently
- 9.10 Vanor (Gas) Specific Gravity: Not pertinent
- 9.11 Ratio of Specific Heats of Vapor (Gas):
- Not pertinent 9.12 Latent Heat of Vaporization: Currently not
- available 9.13 Heat of Combustion: Currently not available
- 9.14 Heat of Decomposition: Not pertinent
- 9.15 Heat of Solution: Not pertinent
- 9.16 Heat of Polymerization: Currently not
- 9.17 Heat of Fusion: Currently not available
- 9.18 Limiting Value: Currently not available
- 9.19 Reid Vapor Pressure: Currently not available

NOTES

HYDROXYPROPYL METHACRYLATE

Temperature (degrees F) Pounds per cubic foot Temperature (degrees F) British thermal unit per pound-F Temperature (degrees F) British thermal unit per pound-F Gegrees F) British thermal unit per pound-F	re Centipoise
68 66.169 N N O T T	N O T
P E RT T I N E N T T	- PERT-ZEZT

9.24 SOLUBILITY IN WATER		9.25 SATURATED VAPOR PRESSURE		9.26 SATURATED VAPOR DENSITY		9.27 IDEAL GAS HEAT CAPACITY	
Temperature (degrees F)	Pounds per 100 pounds of water	Temperature (degrees F)	Pounds per square inch	Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F
	M I S C		N O T		N O T		N O T
	B L E		P E R T I N E N T		PERTINENT		P