TED PELLA, INC.
Microscopy Products for Science and Industry

Material Safety Data Sheet

Product No. 18091 Glycol Methacrylate
Issue Date (06-15-06)
Review Date (06-01-12)

Section 1: Product and Company Identification

Product Name: Glycol Methacrylate

Synonym: 2-Hydroxyethyl Methacrylate Stabilized with 250 ppm MEHQ; 2-(Methacryloyloxy) Ethanol; Ethylene Glycol Methacrylate; Ethylene Glycol Monomethacrylate; Glycol Methacrylate; beta-Hydroxyethyl Methacrylate; Mhoromer; Methacrylic Acid, 2-Hydroxy Ethyl Ester

Chemical name: 2-Hydroxyethyl Methacrylate Stabilized with 250 ppm MEHQ

Company Name

Ted Pella, Inc., P.O. Box 492477, Redding, CA 96049-2477
Domestic Phone (800) 237-3526 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)
International Phone (01) (530) 243-2200 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)
Chemtrec Emergency Number 1-800-424-9300 24 hrs a day.

Section 2: Composition / Information on Ingredients

Principle Hazardous Component(s) (chemical and common name(s)) (Cas. No)	%	OSHA PEL mg/m3	ACGIH TWA mg/m3	NTP	IARC	OSHA regulated
Glycol Methacrylate (868-77-9)	100	ND	ND	No	No	No
4-Methoxyphenol (150-76-5)	250 PPM	NE	5	No	No	No

Section 3: Hazard Identification

Emergency overview

Appearance: Liquid, clear and colorless.
Immediate effects: Skin contact irritant and eye contact irritant. The substance is toxic to blood, the reproductive system, liver, spleen, central nervous system (CNS).

Potential health effects

Primary Routes of entry: Absorbed through the skin and eye contact.
Signs and Symptoms of Overexposure: Repeated or prolonged exposure to the substance can produce target organs damage.
Eyes: Eye contact irritant.

Skin: Hazardous skin contact irritant
Ingestion: The substance is toxic to blood, the reproductive system, liver, spleen, central nervous system (CNS).
Inhalation: Irritant
Chronic Exposure: Classified Reproductive system toxin in females (Possible).
Chemical Listed As Carcinogen Or Potential Carcinogen: ND
See Toxicological Information (Section11)
Potential environmental effects
See Ecological Information (Section 12)

Section 4: First Aid Measures
If accidental overexposure is suspected
Eye(s) Contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. WARM water MUST be used. Do not use an eye ointment. Seek medical attention.
Skin Contact: After contact with skin, wash immediately with plenty of water. WARM water MUST be used. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Serious Skin Contact: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.
Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Ingestion: Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
Note to physician
Treatment: ND
Medical Conditions generally Aggravated by Exposure: ND

Section 5: Fire Fighting Measures
Flash Point: 101 °C
Flammable Limits: ND
Auto-ignition point: ND
Fire Extinguishing Media: Small fire: Use dry chemical powder. Large fire: Use water spray, fog or foam. Do not use water jet.
Special Fire Fighting Procedures: ND
Unusual Fire and Explosion Hazards: ND
Hazardous combustion products: Carbon monoxide and Carbon dioxide.
DOT Class: None.

Section 6: Accidental Release Measures
Steps to be Taken in Case Material is Released or Spilled: Small spill: Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements. Large spill: Wear

splash goggles, full suit, boots, and gloves. Suggested protective clothing may not be sufficient; consult a specialist BEFORE handling this product. Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system.
Waste Disposal Methods: Dispose of waste according to Federal, State and Local Regulations.

Section 7: Handling and Storage
Precautions to be Taken in Handling and Storage: Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes vapor/spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.
Storage temperature: Room temperature.
Storage Pressure: NA

Section 8: Exposure Controls / Personal Protection
Engineering Controls
Ventilation required: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.
Personal Protection Equipment
Respiratory protection: Fume hood.
Protective gloves: Gloves.
Skin protection: Lab coat.
Eye protection: Splash goggles.
Additional clothing and/or equipment: Ensure that eyewash stations and safety showers are proximal to the workstation location.
Exposure Guidelines
See Composition/Information on Ingredients (Section2)

Section 9 Physical and Chemical Properties
Appearance and Physical State: Liquid, clear and colorless.
Odor (threshold): NA
Specific Gravity (H_2O=1): 1.034
Vapor Pressure (mm Hg): 0.01 mm Hg (25 °C)
Vapor Density (air=1): ND
Percent Volatile by volume: ND

Evaporation Rate (butyl acetate=1): ND
Boiling Point: 67^{O} C (152.6 °F).
Freezing point / melting point: -12 °C (10.4 °F)
pH: ND

Solubility in Water: Partially soluble.
Molecular Weight: 130.14
Chemical Formula: $C_6H_{10}O_3$

Section 10: Stability and Reactivity
Stability: Stable
Conditions to Avoid: Heat.
Materials to Avoid (Incompatibility): Oxidizing agents.
Hazardous Decomposition Products: Carbon dioxide and carbon monoxide.
Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information
Results of component toxicity test performed: LD50: (Oral, Mouse): 3275 mg/kg.
Human experience: Possible female reproductive system toxin. The substance is toxic to the blood, the reproductive system, liver, spleen, CNS.
This product **does not** contain any compounds listed by NTP or IARC or regulated by OSHA as a carcinogen.

Section 12: Ecological Information
Ecological Information: NA
Chemical Fate Information: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. The product itself and its products of degradation are not toxic.

Section 13 Disposal Considerations
RCRA 40 CFR 261 Classification: NIF
Federal, State and local laws governing disposal of materials can differ. Ensure proper disposal compliance with proper authorities before disposal.

Section 14: Transportation Information
US DOT Information: Proper shipping name: Not a DOT controlled material (United States).
IATA: Proper shipping name: Not a DOT controlled material (United States).
Domestic shipments only:
IMO: Proper shipping name: Not a DOT controlled material (United States).
EMS: ND
MFAG: ND
Marine Pollutant: No
Canadian TDG: Not regulated
IMDG Page: ND
Limitations: NA

Section 15: Regulatory Information
United States Federal Regulations
MSDS complies with OSHA's Hazard Communication Rule 29, CFR 1910.1200.
SARA: ND

SARA Title III: ND
RCRA: ND
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)
TSCA: This material is listed on the TSCA inventory. TSCA 8 (b) Inventory: 2-Hydroxyethyl Methacrylate Stabilized with 250 ppm MEHQ. TSCA 8 (a) Pair: 2-Hydroxyethyl Methacrylate Stabilized with 250 ppm MEHQ
CERCLA: No

State Regulations

California Proposition 65: None

International Regulations

Canada WHMIS: Class D-2A: Material causing other toxic effects (VERY TOXIC).
Europe EINECS Numbers: This product is on the European Inventory of Existing Commercial Chemical Substances.

Section 16: Other Information

Label Information: NIF
European Risk and Safety Phrases: R36/38 R43. Risk Phrases: Irritating to eyes and skin. May cause sensitization by skin contact.
European symbols needed: ND
Canadian WHMIS Symbols: ND
HMIS® Hazard Rating: Health: **2**; Fire: **1**; Reactivity: **0**; Personal Protection: **J**
NFPA Hazard Rating: Health: **2**; Flammability: **1**; Reactivity: **0**
(0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

Abbreviations used in this document

NE= Not established
NA= Not applicable
NIF= No Information Found
ND= No Data

Disclaimer

Ted Pella, Inc. makes no warranty of any kind regarding the information furnished herein. Users should independently determine the suitability and completeness of information from all sources. While this data is presented in good faith and believed to be accurate, it should be considered only as a supplement to other information gathered by the user. It is the User's responsibility to assure the proper use and disposal of these materials as well as the safety and health of all personnel who may work with or otherwise come in contact with these materials.