



Material Safety Data Sheet

Product No. 18174 MonoStep® Lowicryl® HM-20, Non-Polar Embedding Media

Issue Date (11-29-06)

Review Date (06-01-12)

Section 1: Product and Company Identification

Product Name: MonoStep® Lowicryl® HM-20, Non-Polar Embedding Media

Synonym: None

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 TLV mg/m3	NTP	IARC	OSHA regulated
2-Propenoic acid, 2-methyl-, ethyl ester (97-63-2)	75	NE	NE	No	No	No
n-Hexyl Methacrylate (142-09-6)	18	NE	NE	No	No	No
2-Propenoic acid, 2-methyl-, 1-ethanediylbis(oxy-2,1-ethanediyl)ester (109-16-0)	6	NE	NE	No	No	No
Acetophenone, 2-methoxy-2-phenyl (3524-62-7)	1	NE	NE	No	No	No
4-Methoxyphenol (150-76-5)	0	NE	5 ppm	No	No	No

Section 3: Hazard Identification

Emergency overview

Appearance: Colorless liquid.

Immediate effects: Eye and skin irritant.

Potential health effects

Primary Routes of entry: Ingestion, inhalation, eye and skin contact.

Signs and Symptoms of Overexposure: ND

Eyes: Causes eye irritation.

Skin: Causes skin irritation. May cause allergic skin reaction.

Ingestion: ND
Inhalation: ND
Chronic Exposure: ND
Chemical Listed As Carcinogen Or Potential Carcinogen: None
See Toxicological Information (Section 11)

Potential environmental effects

See Ecological Information (Section 12)

Section 4: First Aid Measures

If accidental overexposure is suspected

Eye(s) Contact: Flush eyes with flowing water for at least 15 minutes while separating eyelids with finger tips.

Skin Contact: Wash skin with copious amounts of water for at least 15 minutes.

Inhalation: ND

Ingestion: If swallowed, wash out mouth with water if person is conscious.

Note to physician

Treatment: ND

Medical Conditions generally Aggravated by Exposure: ND

Section 5: Fire Fighting Measures

Flash Point: 64 °F

Flammable Limits: LEL: 1.8. UEL: ND.

Auto-ignition point: 739 °F

Flammability: IB

Fire Extinguishing Media: ND

Special Fire Fighting Procedures: ND

Unusual Fire and Explosion Hazards: ND

Hazardous combustion products: None

DOT Class: Flammable liquid (Ethyl Methacrylate, Stabilized)

Section 6: Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled: Any information mentioned is to be considered in addition to internal guidelines for isolation of spill, containment of spill, removal of ignition sources from immediate area, and collection for disposal of spill by trained, properly protected clean up personnel.

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: Avoid heat; ignition sources.

Storage temperature: 4 °C

Storage Pressure: ND

Section 8: Exposure Controls / Personal Protection

Engineering Controls

Ventilation required: Use process enclosures, local exhaust ventilation, or other engineering controls.

Personal Protection Equipment

Respiratory protection: Fume hood.

Protective gloves: Use latex or equivalent gloves.

Skin protection: Protective clothing.

Eye protection: Use chemical splash goggles and face shield.

Additional clothing and/or equipment: ND

Exposure Guidelines

See Composition/Information on Ingredients (Section2)

Section 9 Physical and Chemical Properties

Appearance and Physical State: colorless liquid

Odor (threshold): ND

Specific Gravity (H₂O=1): 0.91

Vapor Pressure (mm Hg): 21.3 mbar

Vapor Density (air=1): >1

Percent Volatile by volume:

Evaporation Rate (butyl acetate=1):

Boiling Point: 246 °F

Freezing point / melting point: -103 °F

pH: ND

Solubility in Water: Slight

Molecular Weight: NA

Section 10: Stability and Reactivity

Stability: Stable.

Conditions to Avoid: Heat; ignition sources.

Materials to Avoid (Incompatibility): Oxidizers, initiators.

Hazardous Decomposition Products: None.

Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

Results of component toxicity test performed: (Oral, Rat): LD = 13424 mg/kg; (Dermal, Rabbit): LD₅₀ = >9100 mg/kg; (Inhalation, Rat): LC₅₀ = 8300 ppm/4H.

Subchronic data: Tests positive as mutagen on laboratory animals.

Human experience: ND

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: ND

Chemical Fate Information: ND

Section 13 Disposal Considerations

RCRA 40 CFR 261 Classification: Ethyl Methacrylate (97-63-2): U118.

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: Ethyl Methacrylate, Stabilized

Hazard Class: 3

Packaging group: II

UN Number: UN2277

IATA: Proper shipping name: Ethyl Methacrylate, Stabilized

Hazard Class: 3

Packing group: II

UN Number: UN2277

Domestic shipments only:

IMO: Proper shipping name: Ethyl Methacrylate, Stabilized

Class: 3

UN Number: UN2277

Packing group: II

Marine Pollutant: None

Canadian TDG: Proper shipping name: Ethyl Methacrylate, Stabilized

Section 15: Regulatory Information

United States Federal Regulations

MSDS complies with OSHA's Hazard Communication Rule 29, CFR 1910.1200.

SARA: Section 302: None listed

SARA Title III: Section 313: None listed

RCRA: Ethyl Methacrylate (97-63-2): U118.

TSCA: All components of this product are on the TSCA public inventory.

CERCLA: 2-Propenoic acid, 2-methyl-, ethyl ester (97-63-2): RQ = 1000 lbs (454 kg).

State Regulations

California Proposition 65: None

International Regulations

Canada WHMIS: ND

Europe EINECS Numbers: 2-Propenoic acid, 2-methyl-, 1,-ethanediylbis(oxy-2,1-ethanediyl)ester (109-16-0): EINECS#: 203-652-6. 2-Propenoic acid, 2-methyl-, ethyl ester (97-63-2): EINECS#: 202-597-5. 4-Methoxyphenol (150-76-5): EINECS#: 205-769-8. Acetophenone, 2-methoxy-2-phenyl (3524-62-7): EINECS#: 222-538-7. n-Hexyl Methacrylate (142-09-6): EINECS#: 205-521-9.

Section 16: Other Information

Label Information: ND

European Risk and Safety Phrases: ND

European symbols needed: ND

Canadian WHMIS Symbols: ND

Hazard Rating: Health: **1**; Fire: **3**; 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.

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