



Material Safety Data Sheet

Product No. 18315 Dimethylaminoethanol (DMAE)

Issue Date (06-15-06)

Review Date (06-01-12)

Section 1: Product and Company Identification

Product Name: Dimethylaminoethanol (DMAE)

Synonym: Dimethylethanolamine, DMAE, DMEA, Epoxy Curing Agent S-1

Chemical Name: Ethanol, 2-(Dimethylamino)

Chemical Family: Alkyl Alkanol Amines

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
Dimethylaminoethanol (108-01-0)	99	NE	NE	No	No	No

Section 3: Hazard Identification

Emergency overview

Appearance: Clear, colorless liquid.

Immediate effects: Corrosive.

Potential health effects

Primary Routes of entry: Skin, eyes, inhalation and ingestion.

Signs and Symptoms of Overexposure: ND

Eyes: Corrosive to eyes. Contact with eyes may cause blindness.

Skin: Harmful if absorbed through the skin; corrosive to skin.

Ingestion: Harmful if swallowed.

Inhalation: Harmful if inhaled; corrosive to mucous membrane. Inhalation causes severe damage to the upper respiratory tract.

Chronic Exposure: This chemical may stimulate the central nervous system, possibly resulting in restlessness, coordination, tremors and convulsions.

Chemical Listed As Carcinogen Or Potential Carcinogen: This chemical is not classified as a carcinogen by IARC, NTP, or OSHA.

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 with plenty of water for at least 15 minutes. Get medical attention. Begin treatment as quickly as possible.

Skin Contact: Wash with soap and water. Get medical attention. Remove contaminated clothing and clean. Destroy contaminated shoes. Begin treatment as quickly as possible.

Inhalation: Remove to fresh air. If not breathing give artificial respiration. Give oxygen. Get medical attention.

Ingestion: Do not induce vomiting. Give plenty of water. Get medical attention.

Note to physician

Treatment: ND

Medical Conditions generally Aggravated by Exposure: ND

Section 5: Fire Fighting Measures

Flash Point: 40 °C (104 °F) TAG CC

Flammable Limits: NE

Auto-ignition point: NE

Fire Extinguishing Media: Water spray, water stream, CO₂, dry chemical, alcohol foam.

Special Fire Fighting Procedures: Do not direct water stream into burning liquid. Water may be effective for cooling but not for extinguishing.

Unusual Fire and Explosion Hazards: NE

Hazardous combustion products: Carbon monoxide, carbon dioxide, and nitrogen oxides.

DOT Class: Corrosive

Section 6: Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled: Small Spills (less than one gallon): Flush spill area with water. Larger Amounts: Absorb with sand or inert material. Place in container and seal. Flush spill area with water. Absorbed and bulk material may be incinerated but toxic combustion products must be handled appropriately.

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: Do not get in eyes, on skin or clothing. Do not breathe dust, vapor, mist, gas. Keep container closed. Keep away from heat, sparks, and open flames. Empty container may contain hazardous residues. Do not cut, drill, grind, or weld on container. Store away from acids and oxidizers. Read label before use.

Storage temperature: Ambient.

Storage Pressure: ND

Section 8: Exposure Controls / Personal Protection

Engineering Controls

Ventilation required: Use with adequate ventilation.

Personal Protection Equipment

Respiratory protection: Use cartridge type with mist filters.

Protective gloves: Synthetic rubber gloves.

Skin protection: Protective apron.

Eye protection: Face shield with goggles.

Additional clothing and/or equipment: Boots.

Exposure Guidelines

See Composition/Information on Ingredients (Section2)

Section 9 Physical and Chemical Properties

Appearance and Physical State: Clear, colorless liquid

Odor (threshold): Ammonia-like

Specific Gravity (H₂O=1): 0.88 – 0.89 @ 20° C (68° F)

Vapor Pressure (mm Hg): 4 H @ 20° C (68° F)

Vapor Density (air=1): 3.1

Percent Volatile by volume: 100%

Evaporation Rate (butyl acetate=1): ND

Boiling Point: 130 – 137° C (266 – 279° F)

Freezing point / melting point: -59° C (-74° F) / NA

pH: ND

Solubility in Water: Complete (miscible)

Molecular Formula: (CH₃)₂N(CH₂CH₂OH)

Molecular Weight: 89.1

Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: Heat, Flames, Acids, Oxidizers

Materials to Avoid (Incompatibility): Strong acids, strong oxidizers. Reaction may generate heat or toxic and irritating fumes.

Hazardous Decomposition Products: Thermal decomposition products include carbon monoxide, carbon dioxide, and nitrogen oxides.

Hazardous Polymerization: ND

Section 11: Toxicological Information

Results of component toxicity test performed: (Oral, Rat): LD₅₀ = 2340 mg/kg. (Dermal, Rabbit): LD₅₀ = 1370 mg/kg. (Inhalation, Rat): LC₅₀ (4 hr) = 1640 ppm.

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: Not listed.

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: 2-Dimethylaminoethanol

Hazard Class: 8

Packaging group: II

UN Number: UN2051

Limitations: 1L

IATA: Proper shipping name: 2-Dimethylaminoethanol

Hazard Class: 8

Packing group: II

UN Number: UN2051

Limitations: 1L

IMO: Proper shipping name: 2-Dimethylaminoethanol

Class: 8

UN Number: UN2051

Packing group: II

Marine Pollutant: No

Canadian TDG: Proper shipping name: 2-Dimethylaminoethanol

Section 15: Regulatory Information

United States Federal Regulations

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

SARA: Not listed.

SARA Title III: Not listed.

RCRA: Not listed.

TSCA: This chemical is reported on the United States Environmental Protection Agency Toxic Substances Control Act Inventory.

CERCLA: Not listed.

State Regulations

California Proposition 65: As of the date on which this Material Safety Data Sheet was prepared, this chemical was not listed under California Proposition 65.

Pennsylvania: This chemical is listed as a "Hazardous Substance": under the Pennsylvania Right to Know Act.

International Regulations

Canada WHMIS: This product is listed on the CPR inventory list.

Europe EINECS Numbers: Dimethylaminoethanol (108-01-0): EINECS#: 203-542-8

Section 16: Other Information

Label Information: ND

European Risk and Safety Phrases: ND

European symbols needed: ND

Canadian WHMIS Symbols: ND

NFPA Hazard Rating: Health: **2**; Fire: **2**; 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.

MSDS Form 0013F1 V2