



Material Safety Data Sheet

Product No. 18310 D.E.R.TM 736 Epoxy Resin

Issue Date (06-15-06)

Review Date (06-01-12)

Section 1: Product and Company Identification

Product Name: D.E.R.TM 736 Epoxy Resin

Synonym: Diglycidyl Ether of Poly(propylene glycol); Polymer of epichlorohydrin-polyglycol

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)

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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
Polymer of epichlorohydrin-polyglycol (41638-13-5)	100	NE	NE	ND	ND	ND

Section 3: Hazard Identification

Emergency overview

Appearance: Clear liquid.

Immediate effects: Causes eye irritation. May cause allergic skin reaction

Systemic (Other Target Organs) Effects: No relevant information found.

Potential health effects

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

Signs and Symptoms of Overexposure: ND

Eyes: May cause moderate irritation with corneal injury.

Skin: Short single exposure not likely to cause significant skin irritation. Prolonged exposure may cause skin irritation. A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. May cause more severe response if confined to skin or skin is abraded (scratched or cut). May cause allergic skin reaction in susceptible individuals.

Ingestion: Single dose oral toxicity is considered to be low. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury.

Inhalation: Elevated temperatures may generate vapor levels sufficient to cause respiratory irritation and other effects.

Chronic Exposure: Repeated exposure may cause skin burns.

Chemical Listed As Carcinogen Or Potential Carcinogen: ND

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 flowing water immediately and continuously for 15 minutes.

Consult medical personnel.

Skin Contact: Wash off in flowing water or shower.

Inhalation: Remove to fresh air if effects occur. Consult a physician.

Ingestion: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

Note to physician

Treatment: If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Supportive care; treatment based on judgment of the physician in response to reactions of the patient.

Medical Conditions generally Aggravated by Exposure: ND

Section 5: Fire Fighting Measures

Flash Point: 320 °F Methods: PMCC, ASTM D-93

Flammable Limits: ND

Auto-ignition point: ND

Fire Extinguishing Media: Do not use direct water stream, it will spread fire. Water fog or fine spray, carbon dioxide, dry chemical, foam. Alcohol resistant foams (ATC type) are preferred if available. General purpose synthetic foams (including AFFF) or protein foams may function, but much less effectively. Water fog, applied gently may be used as a blanket for fire extinguishments.

Special Fire Fighting Procedures: Wear positive-pressure, self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes firefighting helmet, coat, pants, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage.

Unusual Fire and Explosion Hazards: Dense smoke is emitted when burned without sufficient oxygen. Violent steam generation or eruption may occur upon application of direct water stream to hot liquid.

Hazardous combustion products: Under fire conditions polymers decompose. The smoke may contain polymer fragments of varying compositions in addition to unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to: carbon monoxide, carbon dioxide.

DOT Class: Not regulated when shipped domestically by land.

Section 6: Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled: Contain material to prevent contamination of soil, surface water or ground water. Absorb with material such as sand. Collect material in suitable containers. Residual can be removed using steam or hot soapy water. Solvents are not recommended for cleanup unless the recommended exposure guidelines and safe handling practices for the specific solvent are followed. Consult appropriate solvent MSDS for handling information and exposure guidelines.
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 containers tightly closed when not in use.

Storage temperature: ND

Storage Pressure: ND

Section 8: Exposure Controls / Personal Protection

Engineering Controls

Ventilation required: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

Personal Protection Equipment

Respiratory protection: If respiratory irritation is experienced, use an approved air-purifying respirator.

Protective gloves: Use gloves impervious to this material even for brief exposures.

Skin protection: Protective clothing impervious to the material including boots. Apron or full-body suit will depend on operation.

Eye protection: Use chemical goggles with 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: Near water white liquid

Odor (threshold): Slight ethereal

Specific Gravity (H₂O=1): 1.14

Vapor Pressure (mm Hg): 5 – 6 mm Hg @ 20° C

Vapor Density (air=1): NA

Viscosity: 30 - 60 cps @ 25° C

Percent Volatile by volume: ND

Evaporation Rate (butyl acetate=1): ND

Boiling Point: < 225° C @ 760 mm Hg

Freezing point / melting point: ND

pH: ND

Solubility in Water: ND

Molecular Weight: ND

Section 10: Stability and Reactivity

Stability: Stable.

Conditions to Avoid: None known

Materials to Avoid (Incompatibility): Avoid contact with amines, acids, bases. Avoid contact with oxidizing materials.

Hazardous Decomposition Products: Under fire conditions polymers decompose. The smoke may contain polymer fragments of varying compositions in addition to unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to: carbon monoxide, carbon dioxide.

Hazardous Polymerization: Will not occur by itself, but masses of more than 1 pound of product plus and aliphatic amine will cause irreversible polymerization with considerable heat buildup.

Section 11: Toxicological Information

Results of component toxicity test performed: (Skin, Rabbit): LD50 = >2000 mg/kg. (Ingestion, Rat): LD50 = >2000 mg/kg. Mutagenicity: In vitro mutagenicity tests have been positive.

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: Material is slightly toxic to fish on an acute basis (LC50 between 10 and 100 mg/L). Material is slightly toxic to aquatic invertebrates on an acute basis (LC50 between 10 and 100 mg/L).

Chemical Fate Information: Based on the stringent test guidelines, the material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions. Biodegradation reached in CO2 Evolution Test (Modified Sturm Test, OECD Test No. 301B) after 28 day: 8-27%. Biodegradation reached in Modified Zahn-Wellens/EMPA Test (OECD Test No. 302B) after 28 days: 7%.

Section 13 Disposal Considerations

RCRA 40 CFR 261 Classification: Do not dump into any sewers, on the ground, or into any body of water. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

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 regulated when shipped domestically by land.

IATA: Proper shipping name: Not regulated

IMO: Proper shipping name: Not regulated

Marine Pollutant: No

Canadian TDG: This product is not regulated by TDG when shipped domestically by land.

Section 15: Regulatory Information

United States Federal Regulations

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

SARA: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: Not to have met any hazard category. SARA Title III: To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.

RCRA: Not listed.

TSCA: All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

CERCLA: Not listed.

State Regulations

California Proposition 65: None.

International Regulations

Canada WHMIS: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR. This product contains the following ingredients which are Controlled Products and/or on the Ingredient Disclosure List (Canadian HPA section 13 and 14): Polymer of epichlorohydrin-polyglycol (41638-13-5): Amount (%w/w): 100%

Europe EINECS Numbers: Not listed.

Section 16: Other Information

Label Information: ND

European Risk and Safety Phrases: ND

European symbols needed: ND

Canadian WHMIS Symbols: ND

Hazard Rating: Health: **ND**; Fire: **ND**; Reactivity: **ND**
(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