

Safety Data Sheet

Product No. 18426, 18427 Glutaraldehyde, 25% EM

grade

Issue Date (04-29-14)

Review Date (12-12-14)

Section 1: Product and Company Identification

Product Name: Glutaraldehyde, 25% EM grade

Synonym: Glutaral, Glutaric Dialdehyde

Chemical Family: Aldehydes

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: Hazard Identification

GHS Pictograms:



Corrosive



Irritant



Health hazard



Environ Damaging

GHS Categories:

GHS05: Skin Corr. 1B H314 Causes severe skin burns and eye damage.

GHS07 Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

GHS08: Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

GHS09: Aquatic Acute 1 H400 Very toxic to aquatic life

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

T; Toxic R23: Toxic by inhalation.

C; Corrosive R34: Causes burns

Xn; Harmful R22: Harmful if swallowed.

Xn; Sensitising R42/43: May cause sensitisation by inhalation and skin contact.

Xi; Irritant R37: Irritating to respiratory system.

N; Dangerous for the environment. R50: Very toxic to aquatic organisms

Health Effects:

HMIS® Rating: Health: 3; Fire: 2; Reactivity: 0

NFPA Rating: Health: 3; Fire: 2; Reactivity: 0

(0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

Emergency overview

Appearance: Transparent Liquid

Immediate effects: Corrosive to skin and eyes

Potential health effects

Primary Routes of entry: Inhalation, ingestion, eye and skin contact.

Signs and Symptoms of Overexposure: ND

Eyes: Causes serious eye damage.

Skin: Causes skin irritation and may cause an allergic skin reaction.

Inhalation: May cause sensitisation. Irritating to respiratory system.

Chronic Exposure: ND

Chemical Listed As Carcinogen or Potential Carcinogen: No

See Toxicological Information (Section 11)

Potential environmental effects

See Ecological Information (Section 12)

Section 3: 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
Glutaraldehyde (111-30-8)	10-25	NE	0.2 0.05ppm	No	No	No

Section 4: First Aid Measures**If accidental overexposure is suspected**

Eye(s) Contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

Skin Contact: Immediately wash with water and soap and rinse thoroughly.

Inhalation: Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.

Ingestion: Call for a doctor immediately.

Note to physician

Treatment: ND

Medical Conditions generally Aggravated by Exposure: ND

Section 5: Fire Fighting Measures

Flash Point: 71 °C (160 °F)

Flammable Limits: NE

Auto-ignition point: Product is not self-igniting.

Fire Extinguishing Media: CO₂, powder or water spray.

Special Fire Fighting Procedures: Fight larger fires with water spray or alcohol resistant foam. Wear respiratory protective device.

Unusual Fire and Explosion Hazards: Product does not present an explosion hazard.

Hazardous combustion products: No dangerous decomposition products known.

DOT Class: Corrosive.

Section 6: Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled: Do not allow to enter sewers/ surface or ground water. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

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: Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Keep container tightly sealed.

Storage temperature: Room Temperature.

Storage Pressure: NA

Section 8: Exposure Controls / Personal Protection

Engineering Controls

Ventilation required: Ensure adequate ventilation.

Personal Protection Equipment

Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protective gloves: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Skin protection: Wear suitable protective clothing

Eye protection: Tightly sealed goggles

Additional clothing and/or equipment: ND

Exposure Guidelines

See Composition/Information on Ingredients (Section 3)

Section 9 Physical and Chemical Properties

Appearance and Physical State: Transparent liquid

Odor (threshold): Fruit like (ND)

Specific Gravity (H₂O=1): 1.00295 g/cm³

Vapor Pressure (mm Hg): 23 hPa

Vapor Density (air=1): ND

Percent Volatile by volume: ND

Evaporation Rate (butyl acetate=1): ND
Boiling Point: 100 °C (212 °F)
Freezing point / melting point: ND
pH: ND
Solubility in Water: Fully miscible.
Molecular Weight: ND
Solvent content: Organic solvents: 0.0 %, Water: 75.0 %
VOC content: 25.0 %

Section 10: Stability and Reactivity

Stability: Stable under normal storage conditions.
Conditions to Avoid: No decomposition if used according to specifications.
Materials to Avoid (Incompatibility): No further relevant information available.
Hazardous Decomposition Products: No dangerous decomposition products known.
Hazardous Polymerization: No dangerous reactions known.

Section 11: Toxicological Information

Results of component toxicity test performed: 111-30-8 Glutaraldehyde 25%
Acute toxicity:
LD/LC50 values relevant for classification: 111-30-8 Glutaraldehyde: Oral LD50 134 mg/kg (rat),
Dermal LD50 2560 mg/kg (rabbit)
Primary irritant effect: On the skin: Caustic effect on skin and mucous membranes
On the eye: Strong caustic effect.
Sensitization: Sensitization possible through inhalation. Sensitization possible through skin contact
Human experience: ND
This product **does not** contain any compounds listed by NTP or IARC or regulated by OSHA as a carcinogen.
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Section 12: Ecological Information

Ecological Information:
Aquatic toxicity: No further relevant information available.
Persistence and degradability No further relevant information available.
Behavior in environmental systems:
Bioaccumulative potential No further relevant information available.
Mobility in soil No further relevant information available.
Ecotoxicological effects:
Remark: Very toxic for fish
Additional ecological information:
General notes:
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Must not reach sewage water or drainage ditch undiluted or un-neutralized.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

Chemical Fate Information: ND

Section 13 Disposal Considerations

RCRA 40 CFR 261 Classification: ND

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Unlearned packaging: Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

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: Corrosive liquid, acidic, organic, n.o.s. (Glutaraldehyde 25%)

Hazard Class: 8

Packaging group: III

UN Number: UN3265

IATA: Proper shipping name: Corrosive liquid, acidic, organic, n.o.s. (Glutaraldehyde 25%)

Hazard Class: 8

Packing group: III

UN Number: UN3265

Marine Pollutant: Not listed in 49CFR tables.

Canadian TDG: Corrosive liquid, acidic, organic, n.o.s. (Glutaraldehyde 25%)

Section 15: Regulatory Information

United States Federal Regulations

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

SARA: Section 355 (extremely hazardous substances): None of the ingredients is listed.

Section 313 (Specific toxic chemical listings): None of the ingredients is listed.

SARA Title III: ND

RCRA: ND

TSCA: All ingredients are listed.

CERCLA: ND

State Regulations

California Proposition 65: None

International Regulations

Canada WHMIS: ND

Europe EINECS Numbers: ND

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Section 16: Other Information

Label Information: Corrosive.

European Risk and Safety Phrases: Risk phrases: Harmful if swallowed. Toxic by inhalation. Causes burns.

Irritating to respiratory system. May cause sensitisation by inhalation and skin contact.

Very toxic to aquatic organisms.

Safety phrases: Do not breathe gas/fumes/vapor/spray.

European symbols needed: ND

Canadian WHMIS Symbols: D2B - Toxic material causing other toxic effects.

Abbreviations used in this document

NE= Not established

NA= Not applicable

NIF= No Information Found

ND= No Data

Disclaimer

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