

Safety Data Sheet

Product No. 18426, 18427 Glutaraldehyde, 25% EM grade

Issue Date (09-02-15)

Review Date (08-31-17)

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

Inside USA and Canada 1-800-237-3526 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)

Outside USA and Canada 1-530-243-2200 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)

CHEMTREC USA and Canada Emergency Contact Number 1-800-424-9300 24 hours a day

CHEMTREC Outside USA and Canada Emergency Contact Number +1-703-741-5970 24 hours a day

Section 2: Hazard Identification

2.1 Classification of substance or mixture

GHS Pictograms:



GHS06



GHS08



GHS05



GHS07

GHS Categories:

GHS05: Corrosion

Skin Corr. 1B

Eye dam. 1

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

GHS06: Toxic

Acute Tox. 3

H331: Toxic if inhaled.

GHS07: Irritant

Skin Sens. 1

H317: May cause an allergic skin reaction.

GHS08: Health

Resp. Sens. 1

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

2.2 Label Elements

Hazard pictograms



GHS05



GHS06



GHS08

Signal word: DANGER

Hazard-determining components of labeling:

Glutaraldehyde

Hazard statements

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H331 Toxic if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements

P210 Keep away from flames and hot surfaces. – No smoking.

P235 Keep cool.

P260 Do not breathe dust/fumes/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated clothing must not be taken out of the workplace.

P280 Wear protective gloves/eye protection/face protection.

P284 Wear respiratory protection.

P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P341 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P333+P313 If skin rash or irritation occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

Health Effects:

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

NFPA Rating: Health: *4; Fire: 0; Reactivity: 0

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

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)

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

Section 3: Composition / Information on Ingredients

Principle Hazardous Component(s) (chemical and common name(s)) (Cas. No)	%	OSHA PEL mg/m ³	ACGIH TLV mg/m ³	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

General information: Immediately remove any clothing soiled by the product. Remove breathing apparatus only after contaminated clothing have been completely removed. In case of irregular breathing or respiratory arrest, provide artificial respiration.

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 or oxygen; call for a doctor. In case of unconsciousness, place patient stably in side position for transportation.

Ingestion: Drink plenty of water and provide fresh air. 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: ND

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: None known.

DOT Class: Corrosive.

Section 6: Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Ensure adequate ventilation. Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

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:

No special handling requirements for storage.

Storage Temperature: **0-5°C recommended for long term storage. Do not freeze.**

Storage Pressure: NA

Section 8: Exposure Controls / Personal Protection

Components that require monitoring in the workplace

111-330-8 Glutaraldehyde	
REL	Ceiling limit value: 0.8 mg/m ³ , 0.2 ppm
TLV	Ceiling limit value: 0.2 mg/m ³ , 0.05 ppm

Engineering Controls

Ventilation required: Ensure adequate ventilation.

Personal Protection Equipment

General protective and hygienic measures: Keep away from all foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin.

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. Immediately remove all soiled and contaminated clothing. Avoid contact with the skin.

Eye protection: Tightly sealed goggles. Avoid contact with the eyes.

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): 1.0125 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: 101 °C (214 °F)
Freezing point / melting point: ND
pH: 4.5
Solubility in Water: Fully miscible.
Molecular Weight: ND
Solvent content: Organic solvents: 0.0 %, Water: 75.0 %
VOC content: 0.0 %

Section 10: Stability and Reactivity

Stability: Stable under normal storage conditions.
Conditions to Avoid: ND
Materials to Avoid (Incompatibility): ND
Hazardous Decomposition Products: None known.
Hazardous Polymerization: None known.

Section 11: Toxicological Information

Results of component toxicity test performed (111-30-8 Glutaraldehyde 25%)

Acute toxicity:

LD/LC50 values relevant for classification:

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 and 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:

Harmful

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

Section 12: Ecological Information

Ecological Information:

Aquatic toxicity: ND

Persistence and degradability: ND

Behavior in environmental systems:

Bioaccumulative potential: ND

Mobility in soil: ND

Additional ecological information: 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.

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.

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)

Hazard Class: 8

Packaging group: III

UN Number: UN3265

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

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)

Section 15: Regulatory Information

United States Federal Regulations

SDS 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: None ingredients is listed.

State Regulations

California Proposition 65: None of the ingredients is listed.

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

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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