

### Safety Data Sheet

**Product No. 18420, 18421, 18422 Glutaraldehyde, 8% EM grade**

**Issue Date (05-15-15)**

**Review Date (3-18-16)**

---

#### Section 1: Product and Company Identification

**Product Name:** Glutaraldehyde, 8% 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

##### 2.1 Classification of the substance or mixture

##### GHS Pictograms:



GHS05 GHS07 GHS08

##### GHS Categories:

|       |               |  |
|-------|---------------|--|
| GHS08 | Health        |  |
|       | Resp. Sens. 1 | H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| GHS05 | Corrosion     |  |
|       | Eye Dam. 1    | H318: Causes serious eye damage.   |
| GHS07 | Irritant      |  |
|       | 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.  |

##### 2.2 Label Elements

## Labeling according to Regulation (EC) No 1272/2008

This product is classified according to the CLP regulation.

### Hazard pictograms



GHS05



GHS07



GHS08

**Signal word:** DANGER

### Hazard-determining components of labelling:

Glutaraldehyde

### Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

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

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

### Precautionary statements

P285 In case of inadequate ventilation wear respiratory protection.

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).

P405 Store locked up.

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

## 2.3 Other Hazards

### Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

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

### Risk phrases:

R20/22: Harmful by inhalation and if swallowed.

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

R37/38-41: Irritating to respiratory system and skin. Risk of serious damage to eyes.

41 Risk of serious damage to eyes.

### Safety phrases:

23 Do not breathe gas/fumes/vapor/spray (appropriate wording to be specified by the manufacturer).

24 Avoid contact with skin.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

37/39 Wear suitable gloves and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

60 This material and its container must be disposed of as hazardous waste.

### Health Effects:

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

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

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

### Emergency overview

Appearance: Transparent Liquid

Immediate effects:

#### 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)<br>(chemical and common name(s))<br>(Cas. No)  | %           | OSHA<br>PEL<br>mg/m3 | ACGIH<br>TLV<br>mg/m3 | NTP | IARC | OSHA<br>regulated |
|---|-------------|----------------------|-----------------------|-----|------|-------------------|
| Glutaraldehyde, 8% EM grade<br>(111-30-8)<br>EC No.: 203-856-5<br>Resp. Sens. 1: H334<br>Skin Corr. 1B: H314<br>Aquatic Acute 1: H400<br>Acute Tox. 4: H332<br>Skin Sens. 1: H317 | 2.5-<br>10% | NE                   | 0.2<br>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

Flammable Limits: NE

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

Fire Extinguishing Media: CO<sub>2</sub>, 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: Dilute with plenty of water.

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:

**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**

**Engineering Controls**

Ventilation required: Ensure adequate ventilation.

**Ingredients with limit values that require monitoring the workplace:**

Glutaraldehyde (111-30-8)

WEL Short-term value: 0.2 mg/m<sup>3</sup>, 0.05 ppm

Long-term value: 0.2 mg/m<sup>3</sup>, 0.05 ppm

Sen

**Personal Protection Equipment**

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

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 (H<sub>2</sub>O=1): 1.00295 g/cm<sup>3</sup>

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

Freezing point / melting point: ND

pH: ND

Solubility in Water: Fully miscible.

Molecular Weight: ND

Solvent content: Organic solvents: 0.0 %, Water: 92.0 %

---

### **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:

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: Irritant to skin and mucous membranes.

On the eye: Irritating 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:

Harmful

Irritant

---

## **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.

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.

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

Must not be disposed of with household garbage. Do not allow product to reach sewer 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, n.o.s. (Glutaraldehyde 8%)

Hazard Class: 8

Packaging group: II

UN Number: UN1760

IATA: Proper shipping name: Corrosive liquid, n.o.s. (Glutaraldehyde 8%)

Hazard Class: 8

Packing group: II

UN Number: UN1760

Marine Pollutant: No

Canadian TDG: Corrosive liquid, n.o.s. (Glutaraldehyde 8%)

---

## **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: SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components  
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.  
SARA 311/312 Hazards: Acute Health Hazard, Chronic Health Hazard  
RCRA: ND  
TSCA: All ingredients are listed.  
CERCLA: None of the ingredients is listed.

### **State Regulations**

California Proposition 65:  
Chemicals known to cause cancer:  
None of the ingredients is listed.  
Chemicals known to cause reproductive toxicity for females:  
None of the ingredients is listed.  
Chemicals known to cause reproductive toxicity for males:  
None of the ingredients is listed.

### **International Regulations**

Canada WHMIS: ND  
Europe EINECS Numbers: See Section 3.  
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

---

### **Section 16: Other Information**

Label Information: See Section 2.  
European Risk and Safety Phrases: See Section 2.  
European symbols needed: X Harmful.  
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.