

Safety Data Sheet

Product No. 18436 Glutaraldehyde, 70% EM grade

Issue Date (05-16-15)

Review Date (3-18-16)

Section 1: Product and Company Identification

Product Name: Glutaraldehyde, 70% 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

Classification according to Regulation (EC) No 1272/2008

GHS Pictograms



GHS08



GHS05



GHS09



GHS07

GHS Categories

GHS05	Corrosive Skin Corr. 1B	H314: Causes severe skin burns and eye damage.
GHS08	Health hazard Resp. Sens. 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
GHS09	Environment Aquatic Acute 1	H400: Very toxic to aquatic life.
GHS07	Irritant Acute Tox. 4 Skin Sens. 1 STOT SE 3	H332: Harmful if inhaled. H317: May cause an allergic skin reaction. 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 and labeled according to the CLP regulation.

Hazard pictograms



GHS05



GHS07



GHS08



GHS09

Signal Word: DANGER

Hazard-determining components of labelling:

Glutaraldehyde

Hazard statements

H332 Harmful if inhaled.

H314 Causes severe skin burns and 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.

H400 Very toxic to aquatic life.

Precautionary statements

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

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

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.

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

C; Corrosive

R35: Causes severe burns.

Xn; Harmful

R20: Harmful by inhalation.

Xn; Sensitizing

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

N; Dangerous for the environment

R50: Very toxic to aquatic organisms.

Information concerning particular hazards for human and environment:

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

Label elements

Labeling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous

Materials.

Code letter and hazard designation of product:

Label: C- Corrosive

Label: N- Dangerous for the environment

Hazard-determining components of labeling:

Glutaraldehyde

Risk phrases:

20 Harmful by inhalation.

35 Causes severe burns.

42/43 May cause sensitisation by inhalation and skin contact.

50 Very toxic to aquatic organisms.

Safety phrases:

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

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

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

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

57 Use appropriate container to avoid environmental contamination.

Health Effects:

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

NFPA Rating: Health: 4; Fire: 2; 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)

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) EC No.: 203-856-5 Resp. Sens. 1: H334 Skin Corr. 1B: H314 Aquatic Acute 1: H400 Acute Tox. 4: H332 Skin Sens. 1: H17	~70	NE	0.2 0.05 ppm	No	No	No

Section 4: First Aid Measures

If accidental overexposure is suspected

General information: Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident. Remove breathing equipment only after contaminated clothing have been completely removed.

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 doctor. In case of unconsciousness place patient stably in side position for transportation.

Ingestion: Call for a doctor immediately. Drink plenty of water and provide fresh air.

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: Wear protective equipment. Keep unprotected persons away. Do not allow to enter sewers/ surface or ground water. Dilute with plenty of 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

Ingredients with limit values that require monitoring in the workplace:

Glutaraldehyde (111-30-8)

WEL Short-term value: 0.2 mg/m³, 0.05 ppm

Long-term value: 0.2 mg/m³, 0.05 ppm

Sen

Engineering Controls

Ventilation required: Ensure adequate ventilation.

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. 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: Eye wash station or shower.

Exposure Guidelines

See Composition/Information on Ingredients (Section 3)

Section 9 Physical and Chemical Properties

Appearance and Physical State: Colorless liquid.

Odor (threshold): Fruit like (ND)

Specific Gravity (H₂O=1): 1.18 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
Freezing point / melting point: ND
pH: ND
Solubility in Water: Fully miscible.
Molecular Weight: ND
Organic solvents: 0.0 %
Water: 30.0 %
VOC content: 0.00 %

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
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.
Additional toxicological information:
This product shows the following danger 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

Toxicity:
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.

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 70%)

Hazard Class: 8

Packaging group: II

UN Number: UN3265

IATA: Proper shipping name: Corrosive liquid, acidic, organic, n.o.s. (Glutaraldehyde 70%)

Hazard Class: 8

Packing group: II

UN Number: UN3265

Marine Pollutant: Not listed in 49CFR tables.

Canadian TDG: Corrosive liquid, acidic, organic, n.o.s. (Glutaraldehyde 70%)

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: 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

RCRA: ND

TSCA: All ingredients are listed.

CERCLA: None of the ingredients 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.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

Carcinogenic categories

EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH):111-30-8 Glutaraldehyde A4

NIOSH-Ca (National Institute for Occupational Safety and Health)

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: 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:

B3 - Combustible liquid

D2A - Very toxic material causing other toxic effects

E - Corrosive material

Abbreviations used in this document

NE= Not established

NA= Not applicable

NIF= No Information Found

ND= No Data

Disclaimer

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