

Safety Data Sheet

Product No. 18436 Glutaraldehyde, 70% EM grade Issue Date (05-16-15) Review Date (08-31-17)

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 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 the substance or mixture Classification according to Regulation (EC) No 1272/2008

GHS Pictograms



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	H332: Harmful if inhaled.
	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 and labeled according to the CLP regulation.

Hazard pictograms



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

Do not breathe dust/fume/gas/mist/vapors/spray.
IF ON SKIN (or hair): Remove/Take off immediately all
contaminated clothing. Rinse skin with water/shower.
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor.
Store locked up.
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 (Section11)
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) 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.

Ecotoxical 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

<u>US DOT Information</u>: Proper shipping name: Corrosive liquid, acidic, organic, n.o.s. (Glutaraldehyde 70%) Hazard Class: 8 Packaging group: II UN Number: UN3265 <u>IATA</u>: Proper shipping name: Corrosive liquid, acidic, organic, n.o.s. (Glutaraldehyde 70%) Hazard Class: 8 Packing group: II UN Number: UN3265 <u>Marine Pollutant</u>: Not listed in 49CFR tables. <u>Canadian TDG</u>: 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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MSDS Form 0013F1 V3