

# Safety Data Sheet

Revision Date: 6-26-2023

## 1. Product and Company Identification

**Product Name:** 25% Glutaraldehyde in Anhydrous Ethanol

**Product Catalog Number(s):** 20259

**Identified Uses:** Laboratory use.

**Supplier of the Safety Data Sheet:**

Ladd Research

3 Ewing Place

Essex Junction, VT 05452 USA

**Telephone:** (802) 658-4961

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**Emergency Telephone Number:** +1-703-741-5500 (Chemtrec)

## 2. Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Health Hazards

Respiratory Sensitivity (Category 1)

Skin Sensitivity (Category 1)

Skin irritation/corrosion (Category 1B)

Eye Damage (Category 1)

**GHS Label elements, including precautionary statements**

Symbols



**Signal Word**

**Danger**

H225

Highly flammable liquid and vapor

P314

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

H350

May cause cancer

P210

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P241

Use explosion-proof electrical/ventilating/lighting/equipment.

P260

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

P284

Wear respiratory protection

P262

Do not get in eyes, on skin, or on clothing.

### 3. Composition/Information on Ingredients

**Chemical characterization:** Mixtures

**Description:** Mixture of the substances listed below

Components	Classification	Concentration
Ethyl alcohol (Absolute, 200 proof)	Flammable Liquid	75%
Glutaraldehyde	Corrosive	25%

### 4. First Aid Measures

**If inhaled:** Supply fresh air and consult a doctor.

**In case of skin contact:** Immediately wash with soap and water and rinse thoroughly.

**In case of eye contact:** If applicable, remove contact lenses before irrigating eyes. Irrigate eyes for at least 15 minutes. If the eyes are irritated seek medical attention.

**If swallowed:** Rinse mouth thoroughly with cool water. DO NOT induce vomiting. Seek medical attention.

### 5. Firefighting Measures

**Extinguishing Media:** CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Specific Fire Fighting Measures:** Move containers from fire area if you can do it without risk. Cool containers with flooding quantities of water until well after fire is out.

**Special Hazards arising from the substance or mixture:** No data available

**Further Information:** Wear respiratory protection and chemical protective clothing.

### 6. Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:** Ventilate enclosed spaces before entering. Isolate the site as a leak area by providing a zone that has an appropriate width in all directions. Keep unauthorized personnel away. Stay upwind. Wear appropriate personal protective equipment and avoid inhalation or contact with skin and eyes. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**Environmental precautions:** Dilute with plenty water. Do not release into the environment being especially careful to divert the material away from streams or storm drains.

**Methods and materials for containment and cleaning up:** All equipment used when handling the product must be grounded. After removal, flush contaminated area thoroughly with water. For small spills, collect into an empty container which can be sealed after

absorbing with absorbent material, dry sand, etc.

**For Disposal see section 13**

## 7. Handling and Storage

**Precautions for safe handling:** Do not get into eyes, on skin or on clothing. Do not breathe mist, vapors, spray, dust or fumes. Do not swallow. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

**Conditions for safe storage, including any incompatibilities:** Store in a cool location. Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.

## 8. Exposure Controls / Personal Protection

**Engineering Controls:** A suitable exhaust system should be available. An eyewash station and a safety shower should be available.

**Eye/Face Protection:** Wear chemical splash goggles, or safety glasses with side shields.

**Skin Protection:** Wear suitable impervious gloves and lab coat or apron.

**Body Protection:** Always wear closed toe shoes when handling chemicals.

**Respiratory Protection:** In the absence of mechanical exhaust wear a full-face respirator with organic vapor cartridges.

## 9. Physical and Chemical Properties

**Appearance:** Liquid

**Odor:** Aldehyde/ketone odor.

**Boiling Point:** 78°C

**Flash Point:** 13°C

**Specific Gravity:** 0.816 g/ml (at 20°C)

**Decomposition Temperature:** 425°C

**Explosion Limits:** 3.5 Vol% - LEL  
15.0 Vol% - UEL

**Solubility in Water:** Completely miscible

**Solvent Content:** 75% (VOC)

## 10. Stability and Reactivity

**Reactivity:**

**Chemical Reactivity and Stability:** Stable under normal storage and handling conditions.

**Possibility of Hazardous Reactions:** None known.

**Conditions to Avoid:** Contact with high-temperature material, sparks, open flame.

**Incompatible Materials:** No data available

**Hazardous Decomposition Products:** No data available

## **11. Toxicological Information (Glutaraldehyde)**

**Acute Toxicity:** Oral LD<sub>50</sub> (rat) – 134 mg/kg

Dermal LD<sub>50</sub> (rabbit) – 2560 mg/kg

**Skin Corrosion/Irritation:** Strong caustic effect on skin and mucous membranes.

**Serious Eye Damage/Eye Irritation:** Strong caustic effect. Strong irritant with the danger of severe eye injury.

**Respiratory or Skin Sensitization:** Sensitization possible.

### **Carcinogenicity**

**IARC:** No data available

**NTP:** No data available

**OSHA:** No data available

**Reproductive Toxicity:** No data available

**Specific Target Organ Toxicity – Single Exposure:** No data available

**Specific Target Organ Toxicity – Repeated Exposure:** No data available

**Aspiration Hazard:** No data available

## **12. Ecological Information**

**Toxicity:** No data available

**Persistence and Degradability:** No data available

**Bioaccumulative Potential:** No data available

**Mobility in Soil:** No data available

**Other Adverse Effects:**

## **13. Disposal Considerations**

### **Waste Treatment Methods**

**Product:** Incinerate in small portions with an incinerator or entrust to an industrial waste disposal company approved by your local, state and federal authorities.

**Contaminated Packaging:** If possible, clean and recycle. Or perform suitable processing in accordance with regulations. Remove residual contents completely before an empty container is discarded.

## 14. Transport Information

DOT (US)

UN2924 Class 3/8 Flammable liquids, corrosive, n.o.s. (glutaraldehyde in ethanol)

IMDG

UN2924 Class 3/8 Flammable liquids, corrosive, n.o.s. (glutaraldehyde in ethanol)

IATA

UN2924 Class 3/8 Flammable liquids, corrosive, n.o.s. (glutaraldehyde in ethanol)

## 15. Regulatory Information

TSCA – Both ingredients in this product are listed on the TSCA inventory.

California Prop. 65 Components:

Neither of the ingredients is listed.

## 16. Other Information

Not applicable.

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