

Safety Data Sheet

Revision Date: 6-26-2023

1. Product and Company Identification

Product Name: 20% Glutaraldehyde in Methanol

Product Catalog Number(s): 20257, 20258

Identified Uses: Laboratory use.

Supplier of the Safety Data Sheet:

Ladd Research

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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
Methyl alcohol	Flammable Liquid	80%
Glutaraldehyde	Corrosive	20%

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: CO₂, 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/alcohol odor.

Boiling Point: 64.7°C

Flash Point: 9.7°C

Specific Gravity: 0.791 g/ml (at 20°C)

Decomposition Temperature: Not available

Explosion Limits: 6 Vol% - LEL

36 Vol% - UEL

Solubility in Water: Completely miscible

Solvent Content: 80% (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 LD₅₀ (rat) – 134 mg/kg

Dermal LD₅₀ (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

Toxicological Information (Methanol)

Acute Toxicity: LDLO Oral - Human - 143 mg/kg

Remarks: Lungs, Thorax, or Respiration: Dyspnea. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

LD50 Oral - Rat - 1,187 - 2,769 mg/kg

LC50 Inhalation - Rat - 4 h - 128.2 mg/l

LC50 Inhalation - Rat - 6 h - 87.6 mg/l

LD50 Dermal - Rabbit - 17,100 mg/kg

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 methanol)

IMDG

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

IATA

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

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.

The information presented is believed to be correct and is the most accurate information available to us at this time. However, Ladd Research makes no warranty, express or implied, and assumes no liability for this information and the product described herein.