

Safety Data Sheet

Revision Date: 06/29/2023

1. Product and Company Identification

Product Name: Glutaraldehyde (x %) in 0.1M Sodium Cacodylate Buffer, pH 7.4

Product Catalog Number(s): 20233, 20234, 20235, 20237, 20243

Identified Uses: Laboratory use. Manufacture of substances.

Supplier of the Safety Data Sheet:

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2. Hazards Identification

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

Health Hazards

Acute Toxicity – oral

Skin irritation/corrosion

GHS Label elements, including precautionary statements

Symbols



Signal Word

Danger

Causes skin irritation

Causes serious eye damage

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause an allergic skin reaction.

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

Wear protective gloves, clothes, eye protection, face protection

Wash thoroughly after handling

If in Eyes – Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do, and continue rinsing

Immediately call a poison center / doctor

If skin irritation or rash occurs – Get medical attention.

Dispose of contents and container in accordance with local, regional and national regulations.

Hazards not otherwise classified or not covered by GHS

Not applicable

3. Composition/Information on Ingredients

Synonyms:

Formula: -

Molecular Weight: -

Components	CAS Number	Concentration
Glutaraldehyde	111-30-8	≤4 %
Sodium dimethylarsinate	124-65-2	≤2.5%

4. First Aid Measures

General Information: Symptoms of poisoning may even occur after several hours: therefore medical observation should be for at least 48 hours after the accident.

If inhaled: If breathing is difficult, move patient to the open air. Keep him or her at rest to allow easier breathing. Call physician if necessary.

In case of skin contact: Wash the skin with flowing water or shower. Wash contaminated clothing before reuse. Call a doctor if you feel unwell. Take off or dispose of all polluted clothes. If skin irritation or rash occurs, seek medical attention.

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: 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: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste.

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: Please see Section 10 – Stability and Reactivity.

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 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.

9. Physical and Chemical Properties

Appearance: Transparent liquid

Odor: Characteristic of glutaraldehyde

Boiling Point: 100°C (at 1.5mm Hg)

Flash Point: Not applicable

Vapor Pressure at 20°C: 17 mm Hg

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: No relevant information available

Incompatible Materials: No relevant information available

Hazardous Decomposition Products: None known

11. Toxicological Information

Acute Toxicity (Glutaraldehyde): Oral LD₅₀ (rat) – 134mg/kg,
Dermal LD₅₀ (rabbit) – 2560 mg/kg

Skin Corrosion/Irritation: Moderate skin irritation

Serious Eye Damage/Eye Irritation: Strong irritant with the danger of severe eye injury

Respiratory or Skin Sensitization: Both possible

Carcinogenicity

IARC: No data available

NTP: No data available

OSHA: 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: Water hazard class 3 (Self-assessment). 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.

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)

UN1760 Corrosive liquids, n.o.s. (Glutaraldehyde)

IMDG

UN1760 Corrosive liquids, n.o.s. (Glutaraldehyde)

IATA

UN1760 Corrosive liquids, n.o.s. (Glutaraldehyde)

15. Regulatory Information

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

California Prop. 65 Components:

Neither component 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.