



Safety Data Sheet

Glutaraldehyde 50%

1. Identification

Product Name: Glutaraldehyde 50%

Item #: 0341, RW0042

Web SDS: S469

Synonyms: Glutaric dialdehyde; 1,5-Pentanedial

Recommended Use: Laboratory reagent.

Restrictions on Use: N/A

Manufacturer:

BBC Biochemical
409 Eleanor Lane,
Mount Vernon, WA 98273
1-800-635-4477

In Case of Emergency:

Chemtec US 1-800-424-9300
Chemtec International 703-527-3887

2. Hazards Identification

OSHA Hazard Classification(s):

Acute Toxicity - Oral - Category 3
Acute Toxicity - Dermal - Category 3
Acute Toxicity - Inhalation - Category 2
Skin Corrosion - Category 1B
Eye Damage - Category 1
Germ Cell Mutagenicity - Category 2
Sensitization - Skin - Category 1B
Toxic to Reproduction - Category 2
Specific Target Organ Toxicity (repeated exposure) - Category 2

Signal Word: Danger

Hazard Statement(s): Toxic if swallowed. Toxic in contact with skin. Fatal if inhaled. Causes severe skin burns and eye damage. Causes serious eye damage. Suspect of causing genetic defects. May cause an allergic skin reaction. Suspected of damaging fertility of the unborn child. May cause damage to organs (liver) through prolonged or repeated exposure.

Pictogram(s):



Precautionary Statement(s): Prevention: Wash body thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves and protective clothing. Do not breathe dust, vapors. Use only outdoors or in a well-ventilated area. In case of inadequate ventilation where IDLH, OSHA STEL or PEL values reached wear NIOSH approved respiratory protection. Do not breathe dusts or mists. Wear protective gloves, protective clothing, eye protection and face protection. Wear eye protection, face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust, vapors. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves.

Response: If swallowed: Immediately call a doctor. Rinse Mouth. Specific treatment (see first aid section on this label). If on skin: Wash with plenty of water. Call a doctor if you feel unwell. Take off immediately all contaminated clothing and wash it before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor. Specific treatment is urgent (see first aid section on this label) If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Take off all contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue Rinsing If exposed or concerned: Get medical attention. If skin irritation or rash occurs: Get medical attention.

Storage: Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Disposal: Dispose of contents/container in accordance with local regulations.

Descriptions of Hazards not otherwise classified: N/A

Percent of mixture with unknown acute toxicity: N/A

3. Composition and Information on Ingredients

Chemical Name	Common Name	CAS #	Concentration %
---------------	-------------	-------	-----------------



Safety Data Sheet

Glutaraldehyde 50%

Glutaraldehyde		111-30-8	50
----------------	--	----------	----

4. First Aid Measures

Eye Contact: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin Contact: If on skin (or hair): Take off immediately all contaminated clothing and wash before reuse. Wash with plenty of water. If skin irritation occurs: Get medical advice/attention.

Inhalation: Remove to fresh air; give artificial respiration if breathing has stopped. Get medical advice/attention if you feel unwell.

Ingestion: Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention.

Symptoms: Irritation eyes, nose, throat; headache, dizziness

Recommendations for immediate medical care/special treatment: Get medical advice/attention if you feel unwell.

5. Fire- Fighting Measures

Extinguishing Media: Dry chemical, carbon dioxide, alcohol foam, water.

Fire Hazards (Chemical): Not flammable.

Special Protective Equipment: Fire fighters should use self-contained breathing apparatus and protective clothing.

Precautions for Firefighters: Carbon monoxide and unidentified organic compounds may be formed during combustion.

6. Accidental Release Measures

Emergency Procedures: Evacuate the area of all unnecessary personnel. Wear suitable protective equipment. Eliminate all sources of ignition and provide ventilation.

Protective Equipment: See section 8

Environmental Precautions: Prevent release to the environment by using barriers.

Containment and Clean-Up Procedures: Use barriers to prevent spreading. Collect spill in container. Call waste authorities.

7. Handling and Storage

Handling: Do not breathe vapors. Do not eat, drink or smoke when using this product.

Storage: Store locked up. Store in a cool, well-ventilated place. Keep container tightly closed.

8. Exposure Controls/Personal Protection

OSHA Permissible Exposure Limits (PELs):

Reagent	CAS #	OSHA PEL TWA
N/A		

ACGIH Threshold Limit Values (TLVs):

Reagent	CAS #	ACGIH PEL TLV	ACGIH STEL
Glutaraldehyde	111-30-8	0.05 ppm (0.2 mg/m ³) Ceiling	

Engineering Controls: Use in a well ventilated area to prevent exposure. Maintain eyewash fountain and quick-drench facilities in work areas.

Personal Protective Measures: Wear gloves, lab coat, eye protection and impervious footwear. Contact lenses should not be worn when working with this material.

Special PPE Requirements: If ventilation hood not available wear respirator.

9. Physical and Chemical Properties Section

Appearance: Colorless, Liquid

Molecular Weight: 100.1



Safety Data Sheet

Glutaraldehyde 50%

Molecular Formula: C₅ H₈ O₂
pH: N/A
Boiling Point and Boiling Range: N/A
Melting Point/Freezing Point: N/A
Flash Point: N/A
Specific Gravity/Relative Density: N/A
Odor: N/A
Odor Threshold: N/A
Color: Colorless
Flammability (solid/gas): N/A
Vapor Density: N/A
Upper/Lower flammability or explosive limits: N/A
Vapor Pressure: N/A
Evaporation Rate: N/A
Partition Coefficient: n-octanol/water: N/A
Viscosity: N/A
Auto-ignition temperature: N/A
Solubility: N/A
Decomposition Temperature: N/A

10. Stability and Reactivity

Reactivity:
Chemical Stability: Stable
Conditions of Stability/Instability: Stable under normal conditions of temperature and pressure.
Stabilizers needed: None
Safety issue indicated by appearance change: N/A
Other: N/A
Hazardous Reactions: N/A
Hazardous Polymerization: Does not occur
Conditions to avoid: N/A
Classes of Incompatible Materials: Oxidizers, Strong Acids, Strong Bases [Note: Alkaline solutions of glutaraldehyde (i.e., activated glutaraldehyde) react with alcohol, ketones, amines, hydrazines & proteins.]
Hazardous Decomposition Products: Thermal-oxidation degradation can produce oxides of carbon. Toxic gases and vapors (i.e. Carbon monoxide) may be released in a fire.

11. Toxicological Information

Likely Routes of Exposure

Eyes: Corrosive to eyes. May cause reddening, burning and/or permanent damage to eyes. May cause loss of vision or corneal damage.

Skin: Corrosive to skin. May cause redness, rash or chemical burns. May cause permanent scarring. Skin sensitizer, increased and frequent exposure may increase allergy like symptoms on skin.

Inhalation: Dizziness, headache. Toxic by inhalation. May cause wheezing or asthma like symptoms with repeat exposure.

Ingestion: Strongly caustic solution. Corrosive to the mouth, throat and esophagus. May cause chemical burns in stomach and gastrointestinal lining. Toxic by ingestion.

Signs or Symptoms of Exposure: Nausea, wheezing, asthma like symptoms, rash or redness on skin, tearing of eyes. Dizziness, headache. Repeat and long term exposure may damage liver organ. Repeat and prolonged exposure may increase risk of germ cell mutagenicity and toxic affect on reproductive organs.

Effects from short term exposure (delayed, immediate, chronic): Irritation to the eyes, nose, throat; headache, dizziness, nausea.



Safety Data Sheet

Glutaraldehyde 50%

Acute Toxicity (Numerical Measures): For 100% Glutaraldehyde RTEC MA2450000: LD50(oral,mouse)=100 mg/kg
LD50(skin,rabbit)=560 uL/kg LC50 (inhalation, rat)=480 mg/m3/4H
Carcinogenicity (NTP, IARC, OSHA): Not listed as a carcinogen

12. Ecological Information

Ecotoxicity: N/A

Persistence and degradability: N/A

Bioaccumulation Potential (octanol-water partition coefficient, BCF): N/A

Mobility in the soil: N/A

Adverse Environmental Effects: Very toxic to aquatic life.

13. Disposal Considerations

Recommended Disposal Containers: Check with your local waste authorities*

Recommended Disposal Methods: Do not dispose of in drains, check with your local waste authorities.*

Physical/Chemical Properties affecting Disposal: See section 2 and section 9 applicable information.*

Special Precautions for Landfill and Incineration Activities: Check with your local waste authorities.*

Waste Stream: Consult your local or regional authorities.*

14. Transport Information

UN Number: UN2927

UN Proper Shipping Name: Toxic Liquids, Corrosive, organic, n.o.s.

Transport Hazard Class(es): 6.1 (8)

Packing Group Number: II

Environmental Hazards (IMDG code):

Marine Pollutant: No

Transport in Bulk (IBC Code): N/A

Special Transport Precautions: N/A

15. Regulatory Information

OSHA:

DOT:

EPA:

CPSC:



Safety Data Sheet

Glutaraldehyde 50%

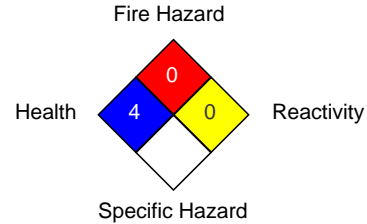
16. Other Information

Revision Date: 03/06/2017

NFPA

Health	4
Fire Hazard	0
Reactivity	0
Specific Hazard	

National Fire Protection Association (USA) NFPA



HMIS

Health	4
Flammability	0
Physical Hazard	0
Personal Protection	

Hazardous Material Information System HMIS

Health	4
Flammability	0
Physical Hazard	0
Personal Protection	

Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.