

Section 1: Identification
Product Name Glutaraldehyde (25%) Aqueous Solution

Commercial Name Not available.

Product Use Laboratory chemicals

Restrictions On Use Not available.

Product Code 55-1211

Company PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:

CHEMTREC (24hr) 1-800-424-9300
Section 2: Hazard(s) Identification
OSHA Haz Com: Acute oral toxicity Category 4 Acute Inhalation Toxicity - Vapors Category 4 Skin Corrosion/Irritation
CFR 1910.1200 Category 1 B Serious Eye Damage/Eye Irritation Category 1 Respiratory Sensitization Category 1 Skin Sensitization Category 1

Signal Word DANGER

Hazard Statement(s) Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Harmful if swallowed or if inhaled.

Pictogram(s) or Symbol(s)

Precautionary Statement(s):
Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Do not breathe dust/fume/gas/mist/vapors/spray Wear protective gloves/protective clothing/eye protection/face protection In case of inadequate ventilation wear respiratory protection Contaminated work clothing should not be allowed out of the workplace Wear respiratory protection

Response

Immediately call a POISON CENTER or doctor/physician Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a POISON CENTER or doctor/physician Skin IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse If skin irritation or rash occurs: Get medical advice/attention Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Ingestion Rinse mouth Do NOT induce vomiting

Storage

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

Disposal

Dispose of contents/container to an approved waste disposal plant

Section 3: Composition/Information on Ingredients
Substance/Mixture Substance

Components Glutaraldehyde (25%) Aqueous Solution and water

% By Weight 25 & 75

CAS# 111-30-8 & 7732-18-5

Molecular Weight 100.12

Chemical Formula C5-H8-O2

Synonym(s) Glutaraldehyde; Pentanedial (Certified/BioReagent)

**Safety Data Sheet**

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Mixtures				
Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Glutaraldehyde Solution (25%) aqueous solution	111-30-8	25.0	Not Available.	Inhalation: (LC50): 480 mg/m3/4H [Rat]. ORAL: (LD50): 100 mg/kg [Mouse]. ORAL: (LD50): 134 mg/kg [Rat].
Water	7732-18-5	75.0		

Section 4: First-Aid Measures

Inhalation	If not breathing, give artificial respiration. Remove from exposure, lie down. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician immediately.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Call a physician immediately.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
Ingestion	Do NOT induce vomiting. Clean mouth with water. Never give anything by mouth to an unconscious person. Call a physician immediately.
Symptoms/Effects	
Acute	Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing
Delayed	Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

Immediate Medical Attention

Treat symptomatically

Section 5: Fire-Fighting Measures**Suitable Extinguishing Media**

CO 2, dry chemical, dry sand, alcohol-resistant foam.

Unsuitable Extinguishing Media

Not available.

Products of Combustion

Carbon monoxide (CO). Carbon dioxide (CO₂). Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes.

Firefighters Special Equipment and Precautions

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

Section 6: Accidental Release Measures

Personal Precautions: Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Environmental Precautions: Should not be released into the environment. Methods for Containment and Clean Up: Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

Section 7: Handling and Storage

Handling: Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance. Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. To maintain product quality: Keep refrigerated. Incompatible Materials. Strong oxidizing agents. Strong acids. Strong bases. Alcohols. Amines.

Section 8: Exposure Controls/Personal Protection

Exposure Limits	ACGIH TLV: Ceiling: 0.05 ppm OSHA PEL: (Vacated) Ceiling: 0.2 ppm (Vacated) Ceiling: 0.8 mg/m NIOSH IDLH: Ceiling: 0.2 ppm Ceiling: 0.8 mg/m Mexico OEL (TWA): Ceiling: 0.05 ppm
Engineering Controls	Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.

**Safety Data Sheet**

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Personal Protection

Eye/face Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin and body protection: Wear appropriate protective gloves and clothing to prevent skin exposure. Respiratory Protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and Chemical Properties

Appearance	Clear Liquid.		
Odor	Pungent		
Odor Threshold	Not available.		
Melting Point	-5 °C / 23 °F	pH	2.9
Freezing Point	Not available.	Vapor Pressure	16.4 mmhg @ 20 °C
Boiling Point/Range	101 °C / 213.8 °F @ 760 mmHg	Vapor Density	Not available.
Decomposition temperature	Not available.	Viscosity	Not available.
Partition Coefficient: n-octanol/water	Not available.	Evaporation Rate	Not available.
Flash Point	Not applicable.	Autoignition temperature	Not available.
Flammability	Not available.	Flammability or Explosive Limits:	
		Lower	Not available.
		Upper	Not available.
Solubility(ies)	Soluble in water		
Other	Not available.		

Section 10: Stability and Reactivity

Reactivity	Not available.
Chemical Stability	Stable under normal conditions.
Hazardous Polymerization	Hazardous polymerization does not occur
Conditions to Avoid	Incompatible products. Excess heat. Temperatures above 25°C
Incompatible Materials	Strong oxidizing agents, Strong acids, Strong bases, Alcohols, Amines
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO2)

Section 11: Toxicological Information
RTECS MA2450000

Acute Toxicity

Oral LD50 Category 4. ATE = 300 - 2000 mg/kg. Dermal LD50 Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Vapor LC50 Category 4. ATE = 10 - 20 mg/l

Skin Corrosion/Irritation

May cause sensitization by skin contact

Serious Eye Damage/Irritation

Not available.

Respiratory or Skin Sensitization

Not available.

Germ Cell Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive Toxicity

Not available.

Routes of Entry

Causes burns by all exposure routes

Symptoms Related to Exposure

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

Potential Health Effects

Not available.

Target Organ(s) Not available.

Section 12: Ecological Information**Ecotoxicity**

The product contains following substances which are hazardous for the environment. Very toxic to aquatic organisms. Freshwater Algae: EC50: = 0.84 mg/L, 96h (Desmodesmus subspicatus) EC50: = 0.61 mg/L, 72h (Desmodesmus subspicatus) Freshwater Fish: LC50: 2.6 - 4.8 mg/L, 96h flow-through (Oncorhynchus mykiss) LC50: 7.8 - 13 mg/L, 96h static Oncorhynchus mykiss) LC50: = 5.4 mg/L, 96h static (Pimephales promelas) LC50: 7.8 - 22 mg/L, 96h static (Lepomis macrochirus) Microtox: EC50 = 13.3 mg/L 17 h EC50 = 76.0 mg/L 5 min Water Flea: EC50: = 14 mg/L, 48h (Daphnia magna) EC50: 0.56 - 1.0 mg/L, 48h Static (Daphnia magna)

Persistence and Degradability

Miscible with water Persistence is unlikely based on information available. Soluble in water

Bioaccumulative Potential

Not available.

Mobility in Soil

Will likely be mobile in the environment due to its water solubility

Other Adverse Effects

Not available.

Section 13: Disposal Considerations**Waste Disposal**

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Disposal of Container

Not available.

Other Considerations

Not available.

Section 14: Transport Information**DOT Classification**

DOT UN-No UN3265 Proper Shipping Name Corrosive liquid, acidic, organic, n.o.s. Technical Name Glutaraldehyde Hazard Class 8 Packing Group II

Section 15: Regulatory Information**Regulations**

Not available.

Other

Not available.

Section 16: Other Information

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.