

**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 and 75  
**CAS#** 111-30-8 and 7732-18  
**Molecular Weight** 100.12  
**Chemical Formula** C5-H8-O2  
**Synonym(s)** Glutaraldehyde; Pentanedial (Certified/BioReagent)

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

<b>Mixtures</b>				
<b>Name</b>	<b>CAS#</b>	<b>% by Weight</b>	<b>TLV/PEL</b>	<b>LC50/LD50</b>
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**

<b>Inhalation</b>	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.
<b>Skin Contact</b>	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.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
<b>Ingestion</b>	Do NOT induce vomiting. Clean mouth with water. Never give anything by mouth to an unconscious person. Call a physician immediately.
<b>Symptoms/Effects</b>	
<b>Acute</b>	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
<b>Delayed</b>	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 (CO<sub>2</sub>). 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**

<b>Exposure Limits</b>	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
<b>Engineering Controls</b>	Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.

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**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**

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

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	Not available.
<b>Chemical Stability</b>	Stable under normal conditions.
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur
<b>Conditions to Avoid</b>	Incompatible products. Excess heat. Temperatures above 25°C
<b>Incompatible Materials</b>	Strong oxidizing agents, Strong acids, Strong bases, Alcohols, Amines
<b>Hazardous Decomposition Products</b>	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 &gt; 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.