

Section 1 Identification

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CHEMTREC 24 Hour Emergency
Phone Number (800) 424-9300
For laboratory and industrial use only.
Not for drug, food or household use.

Product	GLUTARALDEHYDE, 3% AQUEOUS SOLUTION
Synonyms	Glutaraldehyde / Glutaraldehyde, 3% Solution / Glutaraldehyde, 3% in Water

Section 2 Hazards identification

Signal word: WARNING**Pictograms:** GHS07**Target organs:** Eyes, Skin, Respiratory system**GHS Classification:**

Acute toxicity, oral (Category 5)
Skin corrosion (Category 2)
Skin sensitization (Category 2)
Acute toxicity, inhalation (Category 4)
Aquatic toxicity, acute (Category 2)

GHS Label information: Hazard statement:

H303: May be harmful if swallowed.
H315: Causes skin irritation.
H332: Harmful if inhaled.
H401: Toxic to aquatic life.

Precautionary statement:

P261: Avoid breathing mist/vapours/spray.
P264: Wash hands thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves.
P301+P317: IF SWALLOWED: Get medical help.
P302+P352: IF ON SKIN (or hair): Wash with water/shower.
P332+P317: If skin irritation occurs: Get medical help.
P362+P364: Take off contaminated clothing and wash before reuse.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known
Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3 Composition / information on ingredients

Chemical Name	CAS #	%	EINECS
Water	7732-18-5	≈97.0%	231-791-2
Glutaraldehyde	111-30-8	3.0%	203-856-5
Methanol	67-56-1	≤0.25%	200-659-6

Section 4 First aid measures

INGESTION: HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: HARMFUL IF INHALED. MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY CAUSE AN ALLERGIC SKIN REACTION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire fighting measures

Suitable Extinguishing Media: Dry chemical, CO₂ or water spray.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Section 6 Accidental release measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Remove all sources of ignition. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances. Keep away from ignition sources.

Section 8 Exposure controls / personal protection

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Glutaraldehyde	STEL: C 0.05 ppm / C 0.2 mg/m ³ (A4)	Not established	STEL: C 0.2 ppm / C 0.8 mg/m ³

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

Section 9 Physical and chemical properties

Appearance: Liquid. Colorless to pale yellow	Evaporation rate (= 1): >1	Partition coefficient: Data not available
Odor: Sweet, floral odor	Flammability (solid/gas): Data not available	Auto-ignition temperature: Data not available
Odor threshold: Data not available	Explosion limits: Lower / Upper: Data not available	Decomposition temperature: Data not available
pH: 2.9	Vapor pressure (mm Hg): 0.2 mm @ 68°F	Viscosity: Data not available
Melting / Freezing point: 0°C (32°F) [water]	Vapor density (Air = 1): 1.1 [glutaraldehyde]	Molecular formula: Mixture
Boiling point: 100°C (212°F) [water]	Relative density (Specific gravity): 1.0	Molecular weight: Mixture
Flash point: Non flammable	Solubility(ies): Soluble in water	

Section 10 Stability and reactivity

Chemical stability: Stable
Hazardous polymerization: Will not occur.
Conditions to avoid: Excessive temperatures which cause evaporation. Avoid contamination with acids and alkalies.
Incompatible materials: Strong oxidizers, reducing agents, acids and alkalies.
Hazardous decomposition products: Carbon oxides.

Section 11 Toxicological information

Acute toxicity: Glutaraldehyde: Oral-rat LD50: 168 mg/kg ; Inhalation-rat LC50: 0.1 mg/L/4 hours ; Dermal-rabbit LD50: >800 mg/kg

Skin corrosion/irritation: Data not available

Serious eye damage/irritation: Data not available

Respiratory or skin sensitization: Data not available


Germ cell mutagenicity: Data not available

Carcinogenicity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

CA Prop 65:  WARNING! : This product can expose you to Methanol, which is known to the State of California to cause reproductive harm.

Reproductive toxicity: Data not available

STOT-single exposure: Data not available

STOT-repeated exposure: Data not available

Aspiration hazard: Data not available

Potential health effects:

Inhalation: Inhalation may cause cough, headache, labored breathing, nausea, wheezing, sore throat. Repeated or prolonged inhalation may cause asthma.

Ingestion: Ingestion causes abdominal pain, nausea, vomiting.

Skin: Contact causes redness, roughness, burns, blister and pain. Repeated or prolonged contact may cause skin sensitization.

Eyes: Contact causes redness, pain and severe deep burns.

Signs and symptoms of exposure: The symptoms of asthma often do not manifest until a few hours have passed and aggravated by physical effort. Anyone who has shown symptoms of asthma due to this substance, should avoid all further contact with material. Exercise appropriate procedures to minimize potential hazards.

Additional information: RTECS #: Glutaraldehyde: MA2450000

Section 12 Ecological information

Toxicity to fish: Glutaraldehyde: Cyprinodon variegatus (fish, fresh water), LC50 = 46 mg/L/24 hours

Toxicity to daphnia and other aquatic invertebrates: Glutaraldehyde: Daphnia magna (Crustacea), EC50 = 18 mg/L/24 hours

Toxicity to algae: Glutaraldehyde: Scenedesmus subspicatus (Algae), EC50 = 0.61 mg/L/72 hours

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

PBT and vPvB assessment: No data available

Other adverse effects: Very toxic to aquatic life.

Section 13 Disposal considerations


These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Section 14 Transport information

UN/NA number: Not applicable	Shipping name: Not Regulated	Reportable Quantity: No	Marine pollutant: No
Hazard class: Not applicable	Packing group: Not applicable		
Exceptions: Not applicable	2020 ERG Guide #: Not applicable		

Section 15 Regulatory information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Glutaraldehyde	Listed	Not listed	Not listed	Listed	Not listed	 WARNING - Reproductive Harm - www.P65Warnings.ca.gov.
Methanol	Listed	5,000 lbs. (2270 kg)	U154	Listed	Not listed	

Section 16 Other information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.