

Glutaraldehyde aqueous solution 25%

Section 1. Identification

Common name : Glutaraldehyde aqueous solution 25%

Product Code : GL230

Synonym : Glutaric dialdehyde solution; 1,5-Pentanedial

Material uses : Therapeutic agent (treatment against excessive perspiration, fungic infections, warts).

Supplier / Manufacturer:

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Section 2. Hazards identifications

Classification :



Acute toxicity (oral), Category 4

Acute toxicity (dermal), Category 4

Acute toxicity (inhalation), Category 2

Serious eye damage, Category 1

Respiratory sensitization, Category 1

Skin sensitization, Category 1

Signal word : Danger

Hazard statements:

H302 : Harmful if swallowed.

H312 : Harmful in contact with skin.

H317 : May cause an allergic skin reaction.

H318 : Causes serious eye damage.

H330 : Fatal if inhaled.

H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements:

P260 : Do not breathe dust/fumes/gas/mist/vapours/spray.

P264 : Wash exposed and/or contaminated area thoroughly after handling.

P270 : Do not eat, drink or smoke when using this product.

P271 : Use only outdoors or in a well-ventilated area.

P272 : Contaminated work clothing should not be allowed out of the workplace.

P280 : Wear protective gloves/protective clothing/eye protection/face protection.

P284 : Wear respiratory protection.

P301+P310 : IF SWALLOWED: Immediately call a POISON CENTER or a doctor.

P302+P352 : IF ON SKIN: Wash with plenty of water and soap.

P304+P340 : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P310 : Immediately call a POISON CENTER or a doctor.

P320 : Specific treatment according to the ingredients is urgent.

P330 : Rinse mouth.

P333+P313 : If skin irritation or a rash occurs: Get medical advice/attention.

P342+P311 : If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

P403+P233 : Store in a well ventilated place. Keep container tightly closed.

P405 : Store locked up.

P501 : Dispose of contents / container by a local waste disposal company according to regional regulations.

Section 3. Composition and information on ingredients

Name	CAS	Concentration %
Water	7732-18-5	75
Glutaraldehyde	111-30-8	25

Section 4. First aid measures

Description of first aid if required:

Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

Eye contact:

Rinse eyes thoroughly with water for at least 15 minutes.

Skin contact:

Wash with plenty of water and soap.

Inhalation:

Bring the conscious victim to fresh air.

Ingestion:

Rinse mouth. Do NOT induce vomiting.

Indication of immediate medical attention and special treatment needed, if necessary:

Do not give anything by mouth to an unconscious victim.

Section 5. Fire fighting measures

Flammability of the product :

Non-flammable

Flash point :

Data not available

Auto-ignition temperature :

Data not available

Products of combustion :

Carbon oxides

Special protective actions for fire-fighters :

Wear self-contained breathing apparatus with full face shield and appropriate protective clothing.

Suitable extinguishing media :

Use means of extinction the most suited to the surrounding materials.

Fire hazards in presence of various substances :

if all the water in the product evaporates, the residue would be combustible.

Section 6. Accidental release measures**Personal precautions, protective equipment and emergency procedures:**

For non emergency personnel: Evacuate the area.

For emergency personnel: Splash goggles, full suit, chemical resistant gloves. A self-contained breathing apparatus is recommended to avoid inhalation of the product. Suggested protective clothing might not be sufficient. Consult a specialist before handling this product.

Environmental precautions:

Do not let product enter drains

Methods and material for containment and cleaning up:

Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Section 7. Handling and storage**Precautions in Handling:**

Do not ingest. Do not breathe mist or vapors. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes.

Precautions in Storage:

Keep container tightly closed in a cool, dry and well-ventilated place. Recommended storage temperature -20°C. Hygroscopic. Store under inert gas.

Section 8. Exposure Controls, Personal Protections**Control parameters:**

Component	CAS	Value	Control parameters	Basis
Glutaraldehyde	111-30-8	TWA	0.41 mg/m ³	CNESST

Engineering controls:

Use mechanical exhaust or laboratory fumehood to avoid exposure.

Personal protective equipment:

Eyes: Wear safety glasses.

Skin/body: Wear a lab coat or any other appropriate protective clothing.

Respiratory: If ventilation is insufficient, choose appropriate respiratory protection according to levels and duration of exposure.

Hands: Wear chemical resistant protective gloves.

Section 9. Physical and chemical properties

Physical state: Liquid

Color: Clear

Odour: Characteristic

Melting point/Freezing point: -10°C / 14°F

Boiling point: 101°C / 213.8°F

Appearance: Liquid

Flash point: Data not available

pH: 2.9

Solubility: Miscible

Density: 1.061 g/cm³

Section 10. Stability and reactivity

Chemical stability: Stable under recommended storage conditions.

Incompatible materials: Strong oxidizing agents

Products of combustion: Carbon oxides.

Section 11. Toxicological information

Acute toxicity :

Component	CAS	Value
Glutaraldehyde	111-30-8	DL ₅₀ Oral : Rat = 134 mg/kg
		DL ₅₀ Oral : Mouse = 100 mg/kg
		DL ₅₀ Cutaneous : Rat > 2500 mg/kg
		DL ₅₀ Cutaneous : Mouse > 5840 mg/kg
		DL ₅₀ Cutaneous : Rabbit = 392 mg/kg
		CL ₅₀ Inhalation : Rat - = 480 mg/m ³ 4h

Skin corrosion/irritation :

Glutaraldehyde : Causes severe skin burns

Serious eye damage/irritation :

Glutaraldehyde : Causes eye burns

Respiratory or skin sensitisation :

Glutaraldehyde : May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled

Gem cell mutagenicity :

Not applicable

Carcinogenicity :

Not applicable

Reproductive toxicity :

Not applicable

STOT- Single exposure :

Not applicable

STOT- repeated exposure :

Not applicable

Aspiration hazard :

Not applicable

Information on likely route of exposure :

Skin, eyes, inhalation and ingestion

Section 12. Ecological information**Ecological data for aquatic environments :**

None

Persistence and degradability :

Data not available

Bioaccumulative potential :

Water : Not applicabl

Mobility in soil :

Water : Not applicabl

Other adverse effects :


Water : Not applicable


Glutaraldehyde : Very toxic to aquatic life


Section 13. Disposal considerations**Waste disposal :**


Dispose of the chemical waste is in conformity with the federal, provincial and local laws. Store the residues of the product in safe containers. Place the containers in storage area of dangerous chemical waste.

Section 14. Transportation information

TDG			
UN # : UN3265	Proper shipping name : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.		
Class : 8	Packing group : II		
Reportable Quantity :		Limited Quantities : 1 L	Excepted Quantities Code : E2
Maximum net quantity per inner packaging : 30			
Maximum net quantity per outer packaging : 500			

DOT			
UN # : UN3265	Proper shipping name : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.		
Class : 8	Packing group : II		
Reportable Quantity :		Limited Quantities : 1 L	Excepted Quantities Code : E2
Maximum net quantity per inner packaging : 30			
Maximum net quantity per outer packaging : 500			

IMDG				
UN # : UN3265		Proper shipping name : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.		
Class : 8		Packing group : II	EMS-No : F-A, S-F	
Reportable Quantity :		Limited Quantities : 1 L	Excepted Quantities Code : E2	
Maximum net quantity per inner packaging : 30				
Maximum net quantity per outer packaging : 500				

IATA			
UN # : UN3265	Proper shipping name : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.		
Class : 8	Packing group : II		
Reportable Quantity :		Limited Quantities : 0.5 L	Excepted Quantities Code : E2
Maximum net quantity per inner packaging : 30			
Maximum net quantity per outer packaging : 500			

Section 15. Regulatory information

NFPA Classification :



Health : 3
 Flammable : 0
 Reactivity : 0
 Specials conditions : 0

Legend: 4: Severe, 3: High, 2: Moderate, 1: Slightly, 0: Not hazardous

WHMIS 1988 :



Class D1A - Materials Causing Immediate and Serious
 Toxic Effects
 Class D1B - Materials Causing Immediate Toxic Effects



Class E - Corrosive Materials

Section 16. Additional information

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4.00

Elaborated by :

Toxyscan inc.

Notice to reader :

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Références :

- *GHS (rev.7) (2017) globally harmonized system of classification and labeling of chemicals - United Nations*
- *Répertoire toxicologique of la Commission des normes, de l'équité, de la santé et de la sécurité du travail.*
- *Registry of Toxic effects of Chemical Substances of the Canadian Centre for Occupational Health and Safety.*
- *Material safety data sheet from the manufacturer.*
- *Hazardous Products Regulations (DORS/2015-17).*
- *Canadian Transport of Dangerous Goods.*