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Product Name: Glutaraldehyde solution, 25 % in water

CAS No.: 111-30-8

Product Code	:	90612	
Company Name	:	Advent Chembio Priv	vate Limited
Address	:	W-288, MIDC, TTC	INDUSTRIAL AREA, THANE-BELAPUR
E-mail	:	ROAD, RABALE, N. info@adventchembio	AVI MUMBAI - 400 701.
WEBSITE	•	www.adventchembio.	
Company Phone Number	•	022-27690837	
	•	0	
2. Composition/Information	on Ing	redients	
Ingredient		CAS No	Percent
GLUTARALDEHYDE SOLU 25 % IN WATER	TION,	111-30-8	23-31 %
3. Hazards Identification			
Serious eye damage/eye irritat Skin sensitizer Specific target organ toxicity - exposure <b>Labels elements</b> Hazard symbol		: Category 1 : Category 1 : Category 3	
Signal word Hazard statement			eye damage. tation. iratory irritation. llergic skin reaction.
Precautionary statement			•
Prevention		: Avoid breathin	g dust/fume/gas/mist/vapors/spray. Do not eat, drink using this product. Wear protective gloves/protective

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	a well-ventilated release to the en	area. Wash hands thoroughly a vironment.	fter handling. Avoid
Response	Rinse mouth. cautiously with present and easy Get medical ad water. If skin irr Take off conta INHALED: Rer	ED: Immediately call a POISC Do NOT induce vomiting. If water for several minutes. Remove y to do. Continue rinsing. If every vice/attention. IF ON SKIN: W itation or rash occurs: Get med minated clothing and wash nove person to fresh air and k POISON CENTER/doctor if yo	F IN EYES: Rinse ove contact lenses, if ye irritation persists: Vash with plenty of ical advice/attention. it before reuse. IF teep comfortable for
Storage	e	entilated place. Keep container t	
Disposal	: Dispose of conte disposal facility	ents/container to an appropriate t in accordance with applicable la racteristics at time of disposal.	
Other hazards which do not result in GHS classification	: None.	1	

4. First Aid Measures		
General information	:	Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand. Show this safety data sheet to the doctor in attendance.
Ingestion	:	Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.
Inhalation	:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	:	Wash the skin immediately with soap and water. If skin irritation or an allergic skin reaction develops, get medical attention. Wash contaminated clothing before reuse.
Eye contact	:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center immediately. In case of irritation from airborne exposure, move to fresh air.
Most important symptoms/effects, acute and delayed	:	Harmful if swallowed. Causes serious eye damage. Irritating to eyes, respiratory system and skin.
Indication of immediate medical attention and special treatment needed	:	Treat symptomatically. Symptoms may be delayed.



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5. Fire fighting measures		
General fire hazards	:	In case of fire and/or explosion do not breathe fumes. Move container from fire area if it can be done without risk. Use water spray to keep fire-exposed containers cool.
Suitable (and unsuitable) extinguish	ing 1	nedia
Suitable extinguishing media	:	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	:	None known.
Specific hazards arising from the chemical	:	May burn, but does not ignite readily.
Special protective equipment and pr	recau	itions for firefighters
Special fire fighting procedures	:	No unusual fire or explosion hazards noted.
Special protective equipment for fire-fighters	:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental Release Measures		
Personal precautions, protective equipment and emergency procedures	: Keep unauthorized personnel away. Keep upwind. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.	
Methods and material for containment and cleaning up	: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Dike far ahead of larger spill for later recovery and disposal. Clean surface thoroughly to remove residual contamination.	
Notification Procedures	: Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.	
Environmental precautions	: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.	



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7. Handling and Storage	
Precautions for safe handling	: Use personal protective equipment as required. Do not taste or swallow. Do not eat, drink or smoke when using the product. Do not get in eyes and avoid contact with skin and clothing. Avoid breathing mist. Wash hands thoroughly after handling.
Conditions for safe storage, including any incompatibilities	: Keep away from food, drink and animal feeding stuffs. Keep container tightly closed. Store in a cool and well-ventilated place.

8. Exposure Controls Personal Prote	ctio	n
Control parameters		
Occupational exposure limits	:	None established.
Appropriate engineering controls	:	No data available.
Individual protection measures, such	as	personal protective equipment
General information		Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.
Eye/face protection	:	Wear safety glasses with side shields (or goggles) and a face shield.
Hand protection	:	Wear protective gloves.
Other	:	Wear suitable protective clothing.
Respiratory protection	:	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.
Hygiene measures	:	Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Do not get this material in contact with skin. Do not get in eyes.



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9. Physical and Chemical Properties	
Appearance	: Colorless Liquid.
Odor	: Characteristic
pH	: No data available.
Melting point/freezing point	$-10 ^{\circ}\mathrm{C}$
Initial boiling point and boiling	$100^{\circ}$ C
01	. 101 C
range Flash Point	: No data available.
Vapor pressure	$\therefore$ 0.2 kPa
	: No data available.
Vapor density Relative density	: $1.09 (20 \text{ °C})$
Relative density	
Solubility in water	: Soluble
Solubility (other)	: No data available.
Formula	: $OHC(CH_2)_3CHO$
Molecular Weight	: 100.12 g/mol
10. Stability and Reactivity	
	NTs demonstration language and so that and the second
Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Material is stable under normal conditions.
Possibility of hazardous reactions	: Hazardous polymerization does not occur.
Conditions to avoid	: Contact with incompatible materials. Heat.
Incompatible materials	: Contact with alkalis. Oxidizing agents.
Hazardous decomposition products	: Fire or excessive heat may produce hazardous decomposition products.
11. Toxicological Information	
Information on likely routes of expos	sure
Ingestion	: Harmful if swallowed. May cause burns of the gastrointestinal tract if swallowed.
Inhalation	: May cause irritation to the respiratory system.
Skin contact	<ul><li>Causes skin irritation. May cause an allergic skin reaction.</li></ul>
Eye contact	: Causes serious eye damage.
•	· Caulos berroub eje dantage.
Information on toxicological effects	
Acute toxicity (list all possible routes	-
Oral Product	: No data available.
Specified substance(s):	: LD 50 (Rat): 96.1 mg/kg
GLUTARALDEHYDE	LD 50 (Mouse): 100 mg/kg
Dermal Product	: No data available.
Specified substance(s):	: LD 50 (Rabbit): 2,560 mg/kg
GLUTARALDEHYDE	: LD 50 (Rabbit): $2,560 \text{ mg/kg}$
	: No data available.
Inhalation Product	
Specified substance(s):	: LC 50 (Rat, 4 h): 24 mg/l



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GLUTARALDEHYDE <b>Repeated dose toxicity Product</b> <b>Skin corrosion/irritation Product</b>	<ul><li>No data available.</li><li>Causes skin irritation.</li></ul>
Serious eye damage/eye irritation Product	: Causes serious eye damage.
Respiratory or skin sensitization Product	: May cause an allergic skin reaction.
Carcinogenicity Product IARC Monographs on the Evaluation of Carcinogenic Risks	<ul><li>This substance has no evidence of carcinogenic properties.</li><li>No carcinogenic components identified</li></ul>
to Humans DIOXANE US. National Toxicology Program (NTP) Report on Carcinogens	: No carcinogenic components identified
DIOXANE US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-	: No carcinogenic components identified
1050 Germ cell mutagenicity In vitro Product	: No mutagenic components identified
In vivo Product Reproductive toxicity Product	<ul><li>No mutagenic components identified</li><li>No components toxic to reproduction</li></ul>
Specific target organ toxicity - single exposure Product	: Respiratory tract irritation.
Specific target organ toxicity - repeated exposure Product	: None known.
Aspiration hazard Product Other effects	<ul><li>May be harmful if swallowed and enters airways.</li><li>None known.</li></ul>

### 12. Ecological Information

Ecotoxicity Acute hazards to the aquatic environ Fish Product	mei :	n <b>t :</b> No data available.
Specified substance(s): GLUTARALDEHYDE Aquatic invertebrates Product	:	LC 50 (Bluegill Sunfish, 96 h): 13 mg/l LC 50 (Bluegill Sunfish, 24 h): 19 mg/l LC 50 (Bluegill Sunfish, 24 h): 13 mg/l LC 50 (Bluegill Sunfish, 72 h): 13 mg/l LC 50 (Rainbow Trout, 24 h): 17 mg/l LC 50 (Water Flea, 48 h): 16.3 mg/l LC 50 (Grass Shrimp, 96 h): 41 mg/l LC 50 (Green or European shore crab (Carcinus maenas), 96 h):
Chronic hazards to the aquatic envir Fish Product Aquatic invertebrates Product Toxicity to Aquatic Plants Product:	: :	No data available. No data available.
Fish Product Aquatic invertebrates Product	: :	nent : No data available. No data available.



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Biodegradation Product	The product is not expected to be biodegradal	ole.
BOD/COD ratio Product	No data available.	
Bioaccumulative potential		
Bioconcentration factor (BCF)	No data available on bioaccumulation.	
Product		
Partition coefficient n-octanol /	No data available.	
water (log Kow) Product		
Mobility in soil	No data available.	
Other adverse effects	Very toxic to aquatic organisms.	

<b></b>	
Disposal instructions	: Discharge, treatment, or disposal may be subject to national, state, or local laws. Dispose of contents/container to an appropriate
	treatment and disposal facility in accordance with applicable laws
	and regulations, and product characteristics at time of disposal.
Contaminated packaging	Since emptied containers retain product residue, follow label
	warnings even after container is emptied.

#### 14. Transport Information

13. Disposal consideration

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	UN 3082	GLUTARALDEHYDE	9	III	No
IMDG	UN 3082	GLUTARALDEHYDE	9	III	No
IATA	UN 3082	GLUTARALDEHYDE	8	III	No

#### 15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.



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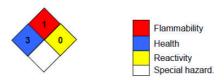
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#### 16. Other Information

**NFPA Hazard ID** 



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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