



MATERIAL SAFETY DATA SHEET

Version :02

**PRODUCT NAME: GLUTARALDEHYDE SOLUTION, 50% in
WATER**

CAS Number: 111-30-8

1. IDENTIFICATION:

Product Code : 93220

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

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2. HAZARDS IDENTIFICATION:**Hazard classification****Health hazards**

Acute toxicity : Category 4

Acute toxicity : Category 3

Skin corrosion : Sub-category 1B

Serious eye damage/eye irritation : Category 1

Respiratory sensitisation : Category 1

Skin sensitisation : Category 1

Specific target organ toxicity - single exposure : Category 3

Short-term (acute) aquatic hazard : Category 1

Long-term (chronic) aquatic hazard : Category 2

Labels elements**Hazard symbol****Signal word**

: Danger

Hazard statement

Harmful if swallowed.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.

: Toxic if inhaled.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause respiratory irritation.
Very toxic to aquatic life with long lasting effects.

Precautionary statement



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Version :02

PRODUCT NAME: GLUTARALDEHYDE SOLUTION, 50% in WATER

CAS Number: 111-30-8

Prevention	: Obtain special instructions before use. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety precautions have been read and understood. Wear protective gloves/ protective clothing/ eye protection/ face protection. Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. Keep container tightly closed. Ground/ bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge.
Response	: IF exposed or concerned: Get medical advice/ attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Storage	: Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Disposal	: 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.
Other hazards which do not result in GHS classification	: Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

3. COMPOSITION/ INFORMATION ON INGREDIENTS:

Ingredient	CAS Number	Percent	Hazardous
Glutaraldehyde Solution, 50% in water	111-30-8	48.0 - 52.0%	Yes

4. FIRST AID MEASURES:

General information	: Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.
Ingestion	: Call a physician or poison control center immediately. Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Move to fresh air. Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen.
Inhalation	: Get medical attention if symptoms persist.
Skin contact	: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
Eye contact	: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
Most important symptoms/effects, acute and delayed	: Toxic if inhaled. Irritating to eyes, respiratory system and skin.
Indication of immediate medical attention and special treatment needed	: Symptoms may be delayed. Treat symptomatically.



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5. FIRE FIGHTING MEASURES:**General information** : No data available**Suitable (and unsuitable) extinguishing media****Suitable extinguishing media** : Foam, dry powder or carbon dioxide.**Unsuitable extinguishing media** : For this substance/mixture no limitations of extinguishing agents are given.**Special protective equipment and precautions for firefighters****Special firefighting procedures** : Fight fire from a protected location. Move containers from fire area if you can do so without risk.**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** : ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.**Methods and material for containment and cleaning up** : Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.**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.**7. HANDLING AND STORAGE:****Precautions for safe handling** : Do not handle until all safety precautions have been read and understood. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective gloves/protective clothing/eye protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.**Conditions for safe storage, including any incompatibilities** : Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Handle and store under inert gas.



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8. EXPOSURE CONTROLS PERSONAL PROTECTION:**Control parameters****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).

Hand protection : Chemical resistant gloves.

Other : Wear suitable protective clothing.

Respiratory protection : In case of inadequate ventilation use suitable respirator. Chemical respirator with organic vapor cartridge.

Hygiene measures : 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. Provide eyewash station and safety shower. Avoid contact with eyes, skin, and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance : Clear, colourless to pale yellowish liquid with a pungent, aldehydic odour.

Odor : No data available

Solubility : No data available

Formula : $C_5H_8O_2$

Molecular Weight : 100.12 g/mol

Specific Gravity : 1.106 g/mL (25 °C)

pH : 3.0 – 4.5 (25 °C)

% Volatiles by volume @ 21C (70F) : No data available

Boiling Point : 101 °C (1.013 hPa)

Melting Point : -21 °C

Flash Point : No data available

Vapor Density (Air=1) : No data available

Vapor Pressure (mm Hg) : 20 hPa (20 °C)

Evaporation Rate (BuAc=1) : No data available



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CAS Number: 111-30-8

10. STABILITY AND REACTIVITY:

Reactivity	: Forms explosive mixtures with air on intense heating.
Chemical stability	: Material is stable under ambient conditions.
Possibility of hazardous reactions	: Hazardous reactions : Violent reactions possible with: The generally known reaction partners of water.
Conditions to avoid	: Strong heating.
Incompatible materials	: Strong acids, Strong bases, Strong oxidizing agents.
Hazardous decomposition products	: In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION:**Information on toxicological effects****Acute toxicity (list all possible routes of exposure)**

Inhalation Product	Oral: No data available Acute toxicity estimate Oral - 400 mg/kg (Calculation method) Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach. : Acute toxicity estimate Inhalation - 4 h - 0,56 mg/l - dust/mist (Calculation method) Symptoms: Possible symptoms:, mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract Dermal: No data available
Repeated dose toxicity Product	: No data available.
Skin corrosion/irritation Product	: No data available.
Serious eye damage/eye irritation Product	: Remarks: Mixture causes serious eye damage. Risk of blindness.
Respiratory or skin sensitization Product	: Mixture may cause allergy or asthma symptoms or breathing difficulties if inhaled. Mixture may cause an allergic skin reaction.
Carcinogenicity Product	: No data available
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans	: No data available
US. National Toxicology Program (NTP) Report on Carcinogens	: No data available
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	: No data available.
Germ cell mutagenicity	: No data available.



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In vitro Product : No data available.

Reproductive toxicity Product : No data available.

Specific target organ toxicity - single exposure Product : No data available.

Specific target organ toxicity - repeated exposure Product : No data available.

Aspiration hazard Product : No data available

Other effects : None known.

12. ECOLOGICAL INFORMATION:**Ecotoxicity****Acute hazards to the aquatic environment**

Fish Product LC50 (Oncorhynchus mykiss (rainbow trout)): 0,8 mg/l
End point: mortality
: Exposure time: 96 h
Test Type: static test
Method: US-EPA

Aquatic invertebrates Product LC50 : 3 mg/l
End point: mortality
: Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
GLP: yes

Chronic hazards to the aquatic environment

Fish Product : Toxic to aquatic life with long lasting effects.

Aquatic invertebrates Product : No data available.

Toxicity to Aquatic Plants Product: ErC50 (Desmodesmus subspicatus (green algae)): 0,6 mg/l
Exposure time: 72 h
: Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

Persistence and degradability

Biodegradation Product Test Type: aerobic
Inoculum: activated sludge
: Concentration: 32 mg/l
Result: Biodegradable in sea water
Biodegradation: 90 - 100 %
Exposure time: 70 d



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Version :02

PRODUCT NAME: GLUTARALDEHYDE SOLUTION, 50% in WATER

CAS Number: 111-30-8

	Method: OECD Test Guideline 306 GLP: yes
BOD/COD ratio Product	: BOD/COD: 0.17 %
Bioaccumulative potential	
Bioconcentration factor (BCF) Product	: No data available.
Partition coefficient n-octanol / water (log Kow) Product	: log Pow: -0,36 (23 °C) Method: OECD Test Guideline 107 GLP: yes
Mobility in soil	: No data available
Other adverse effects	: Remarks: (50% solution) Bioaccumulation is not expected. Discharge into the environment must be avoided.

13. DISPOSAL CONSIDERATION:

Disposal instructions	: Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal recommendations are based on uncontaminated material.
Contaminated packaging	: Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION:

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	UN 2922	Glutaraldehyde Solution, 50% in water	8	II	Yes
IMDG	UN 2922	Glutaraldehyde Solution, 50% in water	8	II	Yes
IATA	UN 2922	Glutaraldehyde Solution, 50% in water	8	II	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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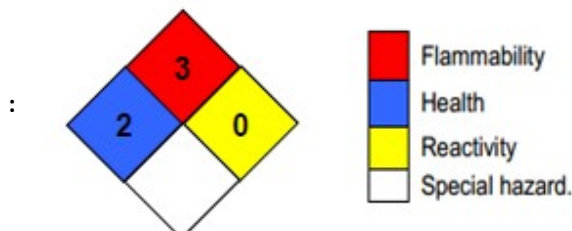
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16. OTHER INFORMATION:

NFPA Hazard ID



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

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