



SWADESH(INDIA) CHEMICAL PVT.LTD.

MATERIAL SAFETY DATA SHEET (MSDS)

1. PRODUCT NAME AND COMPANY IDENTIFICATION

Product Name:

- **Glutaraldehyde Solution**
- **Synonyms:** Glutardialdehyde, Pentanedial

Manufacturer/Supplier:

Swadesh (India) Chemical Pvt. Ltd.

Address:

Survey No: 512, Plot No. 7,
Shri Hari Industrial Park,
Kadadra Village, Near ZAK GIDC,
Dehgam, Gandhinagar, Gujarat, India – 382330

Contact:

- Email: business@swadeshindia.in
- Website: www.swadeshindia.in

Recommended Use:

- Disinfectant, sterilant, biocide

2. COMPOSITION/INGREDIENT INFORMATION

Component	CAS No.	Concentration (%)
Glutaraldehyde	111-30-8	2-50% (as specified)

Additional Notes:

- **Impurities:** May contain stabilizers (e.g., sodium nitrite) in commercial formulations.



SWADESH(INDIA) CHEMICAL PVT.LTD.

3. HAZARDS IDENTIFICATION

GHS Classification:

- Acute Toxicity (Inhalation, Category 2)
- Skin Corrosion/Irritation (Category 1B)
- Eye Damage (Category 1)
- Sensitization (Skin, Category 1)
- Hazardous to Aquatic Life (Chronic, Category 2)

Hazard Statements (H-Codes):

- H330 (Fatal if inhaled)
- H314 (Causes severe skin burns)
- H318 (Causes serious eye damage)
- H317 (May cause allergic skin reaction)
- H411 (Toxic to aquatic life)

Precautionary Statements (P-Codes):

- P260 (Do not breathe vapors)
- P280 (Wear protective gloves/eye protection)
- P303+P361+P353 (IF ON SKIN: Remove contaminated clothing, rinse skin)
- P305+P351+P338 (IF IN EYES: Rinse cautiously with water)

4. FIRST AID MEASURES

- **Inhalation:** Move to fresh air; seek medical attention if breathing difficulty occurs.
- **Skin Contact:** Wash with soap and water; remove contaminated clothing.
- **Eye Contact:** Rinse immediately with water for 15 mins; consult an ophthalmologist if irritation persists.
- **Ingestion:** Rinse mouth, drink water; **DO NOT induce vomiting.** Seek medical help if symptoms appear.

5. FIRE FIGHTING MEASURES

- Extinguishing Media: Water spray, alcohol-resistant foam, CO₂
- Hazardous Combustion Products: CO, CO₂, irritating aldehydes
- Protective Equipment: Solution is non-flammable but containers may explode when heated



SWADESH(INDIA) CHEMICAL PVT.LTD.

6. ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

- **Small Spills:** Absorb with inert material
- **Large Spills:** Contain with dikes
- **Environmental Precautions:**
Prevent entry into drains/waterways

7. HANDLING AND STORAGE

- **Handling:**
 - Use in fume hood or with local exhaust ventilation
 - Avoid vapor formation
- **Storage:**
 - Store in original containers at 15-30°C
 - Keep away from oxidizers

8. EXPOSURE CONTROL/PERSONAL PROTECTION

- **Engineering Controls:** Closed system handling required
- **PPE:**
 - **Respiratory:** NIOSH-approved air-purifying respirator
 - **Gloves:** Butyl rubber ($\geq 0.7\text{mm}$)
 - **Eye Protection:** Face shield + goggles
 - **Body Protection:** Chemical-resistant apron

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Clear, colorless to pale yellow liquid
Odor	Pungent, characteristic
pH (2% solution)	3.0 - 5.0
Boiling Point	100°C (water-based)



SWADESH(INDIA) CHEMICAL PVT.LTD.

10. STABILITY AND REACTIVITY

Chemical Stability:

- Polymerizes under alkaline conditions

Incompatible Materials:

- Amines, strong oxidizers

Hazardous Decomposition Products:

- Forms toxic vapors when heated

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

- LC_{50} (rat): 483 ppm (4h)

Skin Effects:

- Known human sensitizer

Carcinogenicity:

- Causes severe damage (powder form is particularly hazardous)

12. ECOLOGICAL INFORMATION

Ecotoxicity:

- **Aquatic Toxicity:** EC_{50} (Daphnia) 5.6 mg/L
- **Biodegradation:** Not readily biodegradable.

13. DISPOSAL CONSIDERATIONS

Waste Disposal:

- Neutralize with sodium bisulfite before disposal



SWADESH(INDIA) CHEMICAL PVT.LTD.

14. TRANSPORT INFORMATION

DOT/IMO/IATA:

- Not classified as dangerous goods

15. REGULATORY INFORMATION

India:

- Compliant with CPCB regulations

International:

- REACH registered
- OSHA compliant

16. ADDITIONAL INFORMATION

Revision Date :20/04/24

Disclaimer: This MSDS is provided for informational purposes only. Users should make their own determination of suitability for any particular purpose.