



SWADESH(INDIA) CHEMICAL PVT.LTD.

MATERIAL SAFETY DATA SHEET (MSDS)

1. PRODUCT NAME AND COMPANY IDENTIFICATION

Product Name:

- **Didecyldimethylammonium Chloride 80% (DDAC 80%)**
- **Synonyms:** DDAC, Didecyl Dimethyl Ammonium Chloride

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:

- Biocide, disinfectant, preservative, surfactant.

2. COMPOSITION/INGREDIENT INFORMATION

Component	CAS No.	Concentration (%)
Didecyldimethylammonium Chloride	7173-51-5	80%

Additional Notes:

- **Impurities:** May contain trace isopropanol (<1%) as stabilizer.



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3. HAZARDS IDENTIFICATION

GHS Classification:

- Acute Toxicity (Oral, Category 3 | Dermal, Category 4)
- Skin Corrosion/Irritation (Category 2)
- Eye Damage (Category 1)
- Hazardous to Aquatic Life (Chronic, Category 1)

Hazard Statements (H-Codes):

- H301 (Toxic if swallowed)
- H312 (Harmful in contact with skin)
- H314 (Causes severe skin burns and eye damage)
- H410 (Very toxic to aquatic life with long-lasting effects)

Precautionary Statements (P-Codes):

- P280 (Wear protective gloves/eye protection/face shield)
- P301+P310 (IF SWALLOWED: Immediately call a poison center)
- P303+P361+P353 (IF ON SKIN: Remove contaminated clothing. Rinse skin with water)
- P501 (Dispose of contents/container as hazardous waste)

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: Use alcohol-resistant foam, CO₂, or dry chemical powder.
- Hazardous Combustion Products: Hydrogen chloride (HCl), nitrogen oxides (NO_x), carbon monoxide (CO).
- Special PPE: Full-face respirator and firefighting suit.



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6. ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

- **Spill Response:**
 - **Personal Precautions:** Evacuate area; wear chemical-resistant gloves (e.g., nitrile), goggles, and apron.
 - **Containment:** Use inert absorbents (vermiculite, sand) to prevent spread.
 - **Cleanup:** Collect spilled material in sealed containers for disposal.

7. HANDLING AND STORAGE

- **Handling:**
 - Use in closed systems with local exhaust ventilation. Avoid aerosol formation.
- **Storage:**
 - Store in HDPE containers away from acids, oxidizers, and foodstuffs. Keep at 15–25°C.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

- **Engineering Controls:** Chemical fume hood or closed processing.
- **PPE:**
 - **Gloves:** Nitrile or neoprene (≥0.4 mm thickness).
 - **Eye/Face:** Tight-fitting goggles + face shield.
 - **Clothing:** Chemical-resistant apron + boots.
 - **Respiratory Protection:** NIOSH-approved mask (if ventilation is insufficient).

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Clear to yellowish viscous liquid
Odor	Characteristic amine-like
pH (1% solution)	6.0 – 8.5
Density (20°C)	~0.95 g/cm ³
Flash Point	>100°C (non-flammable)



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10. STABILITY AND REACTIVITY

Chemical Stability:

- Stable under normal conditions

Incompatible Materials:

- Strong oxidizers (e.g., hypochlorite), acids, and anionic surfactants.

Hazardous Decomposition Products:

- Thermal breakdown releases toxic gases (HCl, amines).

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

- LD₅₀ (oral, rat): 250 mg/kg
- LD₅₀ (dermal, rabbit): 400 mg/kg

Skin Irritation:

- May cause allergic reactions.

Carcinogenicity:

- LC₅₀ (Daphnia magna, 48h): 0.1 mg/L.

12. ECOLOGICAL INFORMATION

Bioaccumulation:

- Log Pow = 4.2 (high potential).
- **Persistence/Bioaccumulation:** Not readily biodegradable; avoid release to waterways.

13. DISPOSAL CONSIDERATIONS

- **Waste Code:** Hazardous waste (check local regulations).
- **Disposal Method:** Incineration in licensed facilities with scrubbers.



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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.