

# MATERIAL SAFETY DATA SHEET

Product Name: Dichloroacetic Acid

CAS No.: 79-43-6

Version: 0

## 1. Identification

**Product Code** : 93280  
**Company Name** : Advent Chembio Private Limited  
**Address** : W-288, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE, NAVI MUMBAI - 400 701.  
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**Company Phone Number** : 022-27690837

## 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
Dichloroacetic Acid	79-43-6	NLT 99.0%

## 3. Hazards Identification

### Hazard classification

#### Health hazards

Acute toxicity, Dermal : Category 3  
 Skin corrosion : Category 1A  
 Carcinogenicity : Category 2  
 Acute aquatic toxicity : Category 1

#### Labels elements

#### Hazard symbol



#### Signal word

#### Hazard statement

: Danger  
 : Toxic in contact with skin.  
 Causes severe skin burns and eye damage.  
 Suspected of causing cancer.  
 Very toxic to aquatic life

#### Precautionary statement

##### Prevention

: Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 Immediately call a POISON CENTER/doctor

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**Response**

: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician if you feel unwell. Collect spillage.

**Other hazards which do not result in GHS classification**

: None.

## 4. First Aid Measures

**General information**

: Consult a physician. Show this safety data sheet to the doctor in attendance.

**Ingestion**

: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

**Inhalation**

: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**Skin contact**

: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

**Eye contact**

: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Most important symptoms/effects, acute and delayed**

: Irritating to skin.

**Indication of immediate medical attention and special treatment needed**

: No data available

**MATERIAL SAFETY DATA SHEET****Product Name:** Dichloroacetic Acid**CAS No.:** 79-43-6**Version:** 0**5. Fire fighting measures****Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Specific hazards arising from the chemical** : Carbon oxides, Hydrogen chloride gas

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures** : Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out.

**Special protective equipment for fire-fighters** : Wear self-contained breathing apparatus for firefighting if necessary.

**6. Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures** : Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas

**Methods and material for containment and cleaning up** : Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

**Notification Procedures** : Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Inform authorities if large amounts are involved .

**Environmental precautions** : Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**MATERIAL SAFETY DATA SHEET****Product Name:** Dichloroacetic Acid**CAS No.:** 79-43-6**Version:** 0**7. Handling and Storage**

- Precautions for safe handling** : Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
- Conditions for safe storage, including any incompatibilities** : Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Recommended storage temperature 2 - 8 °C  
Handle and store under inert gas.

**8. Exposure Controls Personal Protection****Control parameters**

Occupational exposure limits : None of the components have assigned exposure limits

**Appropriate engineering controls** : Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

**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** : Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection** : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Body Protection** : Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection** : Where risk assessment shows air-purifying respirators are

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appropriate use (US) or type ABEK (EN 14387) respirator cartridges as a backup to enginee protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure** : Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## 9. Physical and Chemical Properties

**Appearance** : Clear colourless liquid.  
**Odor** : No data available  
**pH** : 1.2 at 129 g/l at 20 °C  
**Melting point/freezing point** : Melting point/range: 9 - 11 °C - lit  
**Initial boiling point and boiling range** : 194 °C - lit  
**Flash Point** : 113 °C - closed cup  
**Vapor pressure** : 0.19 mmHg at 20 °C  
**Vapor density** : 4.45 - (Air = 1.0)  
**Relative density** : 1.563 g/cm<sup>3</sup> at 25 °C  
**Solubility in water** : Soluble  
**Solubility (other)** : No data available.  
**Formula** : Cl<sub>2</sub>CHCOOH  
**Molecular Weight** : 128.94 g/mol

## 10. Stability and Reactivity

**Reactivity** : No data available  
**Chemical stability** : Stable under recommended storage conditions.  
**Possibility of hazardous reactions** : No data available.  
**Conditions to avoid** : No data available  
**Incompatible materials** : Strong oxidizing agents, Strong bases, Strong reducing agents.  
**Hazardous decomposition products** : Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas Other decomposition products - No data available

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## 11. Toxicological Information

### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

<b>Oral Product</b>	: LD50 Oral - Rat - 2,820 mg/kg(Dichloroacetic acid)
<b>Dermal Product</b>	: Rabbit - 799 mg/kg(Dichloroacetic acid)
<b>Inhalation Product</b>	: No data available.
<b>Skin corrosion/irritation Product</b>	: Skin - Rabbit(Dichloroacetic acid) Result: Severe skin irritation - 24 h
<b>Serious eye damage/eye irritation Product</b>	: No data available(Dichloroacetic acid)
<b>Respiratory or skin sensitization Product</b>	: No data available(Dichloroacetic acid).
<b>Germ cell mutagenicity</b>	: No data available(Dichloroacetic acid)
<b>Carcinogenicity Product</b>	: Limited evidence of carcinogenicity in animal studies(Dichloroacetic acid) (Dichloroacetic acid) IARC: 2B - Group 2B: Possibly carcinogenic to humans (Dichloroacetic acid)
<b>Reproductive toxicity Product</b>	: No data available(Dichloroacetic acid)
<b>Specific target organ toxicity - single exposure Product</b>	: No data available(Dichloroacetic acid)
<b>Specific target organ toxicity - repeated exposure Product</b>	: No data available
<b>Aspiration hazard Product</b>	: Not classified.
<b>Other effects</b>	: None known.

## 12. Ecological Information

### Ecotoxicity

<b>Toxicity to daphnia and other aquatic invertebrates</b>	: EC50 - Daphnia magna (Water flea) - 106 - 2,600 mg/l - 24 h(Dichloroacetic acid)
<b>Persistence and degradability</b>	: No data available
<b>Bioaccumulative potential</b>	: No data available.
<b>Mobility in soil</b>	: No data available.
<b>Results of PBT and vPvB assessment</b>	: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
<b>Other adverse effects</b>	: Very toxic to aquatic life.

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**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**

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
<b>DOT</b>	1764	DICHLOROACETIC ACID	8	II	NO
<b>IMDG</b>	1764	DICHLOROACETIC ACID	8	II	NO
<b>IATA</b>	1764	DICHLOROACETIC ACID	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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