

# **SAFETY DATA SHEET**

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name Dichloroacetic Acid 97%

CAS number 79-43-6

Synonyms Dichloroethanoic Acid; 2,2-Dichloroacetic Acid; Dichloracetic Acid

## 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory chemicals.

## 1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

## 1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

## GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Corrosive to Metals

Acute Dermal Toxicity

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Category 1

Carcinogenicity

Category 2

Reproductive Toxicity

Category 1B

Effects on/via lactation

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# 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word Danger

Hazard statements May be corrosive to metals.

Toxic in contact with skin.

Causes severe skin burns and eye damage.

Suspected of causing cancer.

May damage fertility or the unborn child. May cause harm to breast-fed children.

May cause damage to organs through prolonged or repeated

exposure.

Precautionary statements

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact during pregnancy/while nursing. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Use only outdoors or in a well-ventilated area. Keep only in original container. Wear respiratory protection.

Response: Immediately call a POISON CENTER or doctor/physician.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN (or hair): Take off all contaminated clothing immediately. Rinse skin with water/shower. Wash contaminated clothing before re-use.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.

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Spills: Absorb spillage to prevent material damage.

Storage: Store locked up in a dry, well-ventilated place in a corrosive resistant polypropylene container with a resistant inliner. Keep container tightly closed.

Disposal: Dispose of contents/container to an approved waste disposal plant.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Very toxic to aquatic life. Corrosive to the respiratory tract.

## **SECTION 3: Composition/information on ingredients**

## 3.1 Components

Chemical name		Common name and synonyms	CAS number Concentra	
	Dichloroacetic acid	Dichloroethanoic Acid; 2,2- Dichloroacetic Acid; Dichloracetic Acid	79-43-6	97%

## **SECTION 4: First aid measures**

# 4.1 Description of first-aid measures

#### General advice

If not breathing, give artificial respiration. Do not use mouth-to-mouth

method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Remove to fresh air. Immediate medical attention

is required.

In case of skin contact Wash off immediately with plenty of water for at least 15 minutes. Immediate

medical attention is required.

In case of eye contact Rinse immediately with plenty of water, including under eyelids, for at least

15 minutes. Seek medical advice.

If swallowed Do NOT induce vomiting. Call a physician or poison control center

immediately.

## 4.2 Most important symptoms and effects, both acute and delayed

Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Ingestion causes swelling, severe damage to delicate tissue, and danger of perforation.

#### 4.3 Indication of any immediate medical attention and special treatment needed

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Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. Treat symptomatically.

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

Suitable extinguishing media Carbon dioxide, dry chemical, dry sand, alcohol-

resistant foam.

**Unsuitable extinguishing media** No information available.

# 5.2 Specific hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin, and mucous membranes. Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous Combustion Products: Carbon monoxide (CO), Carbon dioxide (CO2), Phosgene, Hydrogen chloride gas.

## 5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

#### 5.4 Further information

Flash Point > 112°C / > 233.6°F

**Autoignition Temperature** 194°C / 381.2°F

**Explosion limits** 

Upper No data available.Lower No data available.

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

NFPA

Health	Flammability	Instability	Physical hazards
4	1	0	N/A

#### **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

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## 6.2 Environmental precautions

Do not flush into surface water or saniatry sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

# 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

# **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

#### Precautions on safe handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed, seek immediate medical assistance.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

# 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Keep in a dry, cool, and well-ventilated place. Keep container tightly closed. Store away from incompatible materials. To maintain product quality, store under an inert atmosphere.

#### Incompatibilities

Strong oxidizing agents, strong bases, strong reducing agents, metals.

## **SECTION 8: Exposure controls/personal protection**

## 8.1 Occupational exposure limits

#### **US. ACGIH Threshold Limit Values**

Component	Туре	Value	
Dichloroacetic acid	TWA (Skin)	0.5 ppm	

# 8.2 Exposure controls

#### Appropriate engineering controls

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Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.

## Personal protective equipment

#### **Eye/face protection**

Wear appropriate protective eyeglasses or chemical safety goggles, as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN 166.

#### Skin protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### **Body Protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### Control of environmental exposure

No information available.

## **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Physical State Liquid
Appearance Light yellow
Odor Pungent

Odor Threshold No information available

pH 1.2 129 g/l

Melting Point/Range 9-11°C / 48.2-51.8°F

Boiling Point/Range 194°C / 381.2°F @ 760 mmHg

Evaporation Rate No information available

Flammability (solid)

Flammability or explosive limit

Not applicable

No data available

Upper

Lower

Vapor Pressure 1.3 mbar @ 44°C

Vapor Density 4.45
Density 1.56

Solubility Soluble in water Partition coefficient; No data available

n-octanol/water

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Autoignition Temp 194°C / 381.2°F

Decomposition Temp
Viscosity

No information available
No information available

Molecular Formula C2H2Cl2O2
Molecular Weight 128.94 g/mol

VOC Content(%)

Oxidizing properties

No information available

No information available

# 9.2 Other safety information

No other information.

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

No reactive hazards, based on information available.

# 10.2 Chemical stability

Stable under recommended storage conditions.

## 10.3 Possibility of hazardous reactions

None under normal processing.

#### 10.4 Conditions to avoid

Incompatible products, excess heat.

## 10.5 Incompatible materials

Strong oxidizing agents, strong bases, strong reducing agents, metals.

## 10.6 Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO2), Phosgene, Hydrogen chloride gas.

## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

#### **Product Information, Component Information**

#### **Acute toxicity**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Dichloroacetic acid	2820 mg/kg (Rat)	510 mg/kg (Rat)	-

#### Skin corrosion/irritation

Causes severe burns by all exposure routes.

#### Serious eye damage/eye irritation

Causes severe burns by all exposure routes.

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#### Respiratory or skin sensitization

Causes severe burns by all exposure routes.

# Germ cell mutagenicity

No information available.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Dichloroacetic acid	79-43-6	Group 2B	Not listed	A3	Х	A3

## Specific target organ toxicity - single exposure

None known.

## Specific target organ toxicity - repeated exposure

Respiratory system.

## Reproductive toxicity

No information available.

#### **Chronic effects**

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible performation of stomach or esophagus should be investigated. Ingestion causes severe swelling, severe damage to delicate tissue, and danger of perforation.

## 11.2 Additional Information

No information available.

# **SECTION 12: Ecological information**

## 12.1 Toxicity

Very toxic to aquatic organisms. The product contains the following substances which are hazardous to the environment.

Product	Species	Test Results		
Dichloroacetic acid	Water Flea	106-2600 mg/L 24h		

# 12.2 Persistence and degradability

Persistence is unlikely.

# 12.3 Bio accumulative potential

No information available.

# 12.4 Mobility in soil

Likely mobile in the environment due to its water solubility (log Pow = 0.942).

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#### 12.5 Results of PBT and vPvB assessment

No information available.

#### 12.6 Endocrine disrupting properties

No information available.

#### 12.7 Other adverse effects

No information available.

## **SECTION 13: Disposal considerations**

## 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# **SECTION 14: Transport information**

# DOT (US)

UN no. UN1764

Proper shipping name DICHLOROACETIC ACID

Hazard Class 8
Packaging Group II

#### **IMDG**

UN no. UN1764

Proper shipping name DICHLOROACETIC ACID

Hazard Class 8
Packaging Group II

# **IATA**

UN no. UN1764

Proper shipping name DICHLOROACETIC ACID

Hazard Class 8
Packaging Group II

# **SECTION 15: Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not applicable.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not applicable.

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## **SARA 304 Emergency release notification**

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### **SARA 302 Extremely hazardous substance**

Not listed.

#### SARA 311/312 Hazardous

See Section 2 for more information.

## SARA 313 (TRI reporting)

Not applicable.

# Other federal regulations

## Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

# Safe Drinking Water Act

Not regulated.

# **FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Not listed.

## **US** state regulations

## **US. Massachusetts RTK - Substance List**

Not listed.

#### **US. New Jersey Worker and Community Right-to-Know Act**

Listed.

#### **US. Pennsylvania Worker and Community Right-to-Know Law**

Not listed.

#### California Proposition 65

Listed, Dichloroacetic acid (CAS# 79-43-6).

## **SECTION 16: Other information**

Issue date: 09/10/2024

## **SECTION 17: Disclaimer**

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The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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