

SAFETY DATA SHEET

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

1.1 Product identifiers

Product name Chloroacetic Acid Crystals

CAS number 79-11-8

Synonyms MCA

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 (Category 1)

Acute oral toxicity (Category 3)

Acute dermal toxicity (Category 3)

Acute Inhalation Toxicity - Dusts and Mists (Category 3)

Skin Corrosion/Irritation (Category 1B)

Serious Eye Damage/Irritation (Category 1)

Specific target organ toxicity (single exposure) (Category 3)

Target Organs - Respiratory system.

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2.2 GHS Label elements, including precautionary statements

Pictogram (1) (1)

Signal Word Danger

Hazard statements

Toxic if swallowed, in contact with skin or if inhaled Toxic if swallowed, in contact with skin or if inhaled

Toxic in contact with skin or if inhaled.

Toxic in contact with skin

Causes severe skin burns and eye damage

Causes serious eye damage

Fatal if inhaled Toxic if inhaled

May cause respiratory irritation

Very toxic to aquatic life

Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product.

Wear protective gloves/protective clothing/eye protection/face protection

Use only outdoors or in a well-ventilated area Do not breathe dust/fume/gas/mist/vapors/spray

Keep only in original container

Response Immediately call a POISON CENTER or doctor/physician

Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing.

Skin Wash contaminated clothing before reuse.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower

Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

Ingestion Rinse mouth

Do NOT induce vomiting

Spills Absorb spillage to prevent material damage

Storage Store locked up

Store in a well-ventilated place. Keep container tightly closed

Store in corrosive resistant polypropylene container with a resistant inliner

Store in a dry place

Disposal Disposal 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 with long lasting effects

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SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Chloroacetic acid	MCA	79-11-8	>100%

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

If inhaled Remove to fresh air. 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. 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, also under the eyelids, for at least 15

minutes.

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 severe swelling, severe damage to the delicate tissue and danger of perforation.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: treat symptomatically

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media CO2, dry chemical, dry sand, alcohol-resistant foam

Unsuitable extinguishing media No information available

5.2 Specific hazards arising from the substance or mixture

The product causes burns of eyes, skin and mucous membranes. Do not allow run-off from firefighting to enter drains or water courses.

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5.3 Special protective equipment and precautions for firefighters

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

5.4 Further information

Flash Point 126 °C

Autoignition Temperature 470 °C / 878 °F

Explosion limits

Upper No information availableLower No information available

Sensitivity to Mechanical Impact
Sensitivity to Static Discharge
No information available

NFPA

Health	Flammability	Instability	Physical hazards
4	1	1	N/A

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

Do not flush into surface water or sanitary 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

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

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 ingest. If swallowed then seek immediate medical assistance Do not breathe (dust, vapor, mist, gas). Avoid dust formation.

Hygiene measures

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Handle in accordance with good industrial hygiene and safety practice

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Store under an inert atmosphere. Protect from moisture. Incompatible materials.

Incompatibilities

Strong oxidizing agents. Strong bases. Strong reducing agents. Amines. Alcohols.

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

US. ACGIH Threshold Limit Values

Component	Type	Value
Chloroacetic acid	TWA	0.5 ppm

8.2 Exposure controls

Appropriate engineering controls

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 regultions in 29 CFR 1910.133 or European Standard EN166

Skin 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 EN166

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 EN149. Use a NIOSH/MSHA or European Standard EN149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Control of environmental exposure

No information available

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State Solid
Appearance White
Odor Pungent

Odor Threshold No information available pH $< 1 (800 \text{ g/l} @ 20^{\circ}\text{C})$ Melting Point/Range $61 - 63 ^{\circ}\text{C} / 141.8 - 145.4 \text{ F}$

Boiling Point/Range 189 °C Evaporation Rate 126 °C

Flammability (solid) No information available

Flammability or explosive limit

Upper No information available

Lower 8.00%
Vapor Pressure 0.75 mmHg
Vapor Density Not applicable

Density 1.58

Solubility No information available

Partition coefficient; n-octanol/water No data available Autoignition Temp 470 °C / 878 °F

Decomposition Temp No information available

Viscosity Not applicable Molecular Formula C2 H3 Cl O2

Molecular Weight 94.5

VOC Content(%)

Oxidizing properties

No information available

No information available

9.2 Other safety information

No information available

SECTION 10: Stability and reactivity

10.1 Reactivity

None known, based on information available

10.2 Chemical stability

Hygroscopic

10.3 Possibility of hazardous reactions

None under normal processing

10.4 Conditions to avoid

Incompatible products. Excess heat. Avoid dust formation. Exposure to moist air or water

10.5 Incompatible materials

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Strong oxidizing agents, Strong bases, Strong reducing agents, Amines, Alcohols.

10.6 Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO2), 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
Chloroacetic acid	55 mg/kg	250 mg/kg	180 mg/m3 - 4h

Skin corrosion/irritation

Causes burns by all exposure routes

Serious eye damage/eye irritation

No information available

Respiratory or skin sensitization

No information available

Germ cell mutagenicity

Not mutagenic in AMES test

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Chloroacetic acid	79-11-8	Not listed				

Specific target organ toxicity - single exposure

Respiratory system

Specific target organ toxicity - repeated exposure

None known

Reproductive toxicity

No information available

Chronic effects

No information available

11.2 Additional Information

The toxicological properties have not been fully investigated.

SECTION 12: Ecological information

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12.1 Toxicity

Product		Species	Test Results
	EC50	Freshwater Algae	1.8 mg/L, 72h
	EC50	Freshwater Algae	0.025 mg/L, 72h
Chloroacetic acid	LC50	Freshwater Fish	145 mg/L, 96h
	EC50	Water Flea	71-85 mg/L, 48h
	EC50	Water Flea	77 mg/L, 48h

12.2 Persistence and degradability

Persistence is unlikely

12.3 Bio accumulative potential

No information available

12.4 Mobility in soil

Will likely be mobile in the environment due to its water solubility.

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. UN1751

Proper shipping name CHLOROACETIC ACID, SOLID

Hazard class 6.1 Subsidiary hazard class 8 Packing group II

IMDG

UN-no. UN1751

Proper shipping name CHLOROACETIC ACID, SOLID

Hazard class 6.1 Subsidiary hazard class 8

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Packing group II

IATA

UN-no. UN1751

Proper shipping name CHLOROACETIC ACID, SOLID

Hazard class 6.1
Subsidiary hazard class 8
Packing 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)

Listed; Chloroacetic acid RQ: 100 lb

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not applicable

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)

Listed

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

US state regulations

US. Massachusetts RTK - Substance List

Listed

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

Listed

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

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Listed

California Proposition 65

Not listed

SECTION 16: Other information

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SECTION 17: Disclaimer

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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