



Material Safety Data Sheet

Section 1 IDENTIFICATION

GHS Product identifier: Monochloroacetic Acid.

Other means of identification: /

Recommended use of the chemical and restrictions on use: This material is a kind of organic chemical materials. It can be used in dye, medicine and pesticide industry.

Supplier's details: / Shandong Minji Chemical Co.,Ltd

Emergency phone number: /0086-0533-2281281

Section 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Acute toxicity, oral Category 3

Acute toxicity, dermal Category 3

Acute toxicity, inhalation Category 3

Skin corrosion/irritation Category 1B

Serious eye damage/eye irritation Category 1

Specific target organ toxicity, single exposure; Respiratory tract irritation Category 3

Hazardous to the aquatic environment, acute hazard Category 1

GHS Label elements, including precautionary statements:



Signal word: Danger

Hazard statement(s): Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled. Causes severe skin burns and eye damage. May cause respiratory irritation. Very toxic to aquatic life.

Precautionary statement(s):

Prevention:

Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid breathing fume/gas/vapors/spray. Use only outdoors or in a well-ventilated area. Do not breathe dusts or mists. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

Response:

If swallowed: Immediately call a poison center/doctor. Specific treatment (see under for further information). Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Wash with plenty of water. Call a poison center/doctor if you feel unwell. Specific treatment (see under for further information). Take off immediately all contaminated clothing and wash it before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison



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center/doctor. Specific treatment (see under for further information). 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. Collect spillage.

Storage:

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

Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards which do not result in classification: /

Section 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration%
Monochloroacetic Acid	79-11-8	99.15%

Section 4 FIRST AID MEASURES

Description of necessary first aid measures

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

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

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

If Ingestion: Rinse mouth with water. Do not induce vomit. Consult a physician.

Most important symptoms/effects, acute and delayed: /

Indication of immediate medical attention and special treatment needed, if necessary: /

Section 5 FIREFIGHTING MEASURES

Suitable extinguishing media: Use foam, chemical powder or water spray.

Special hazards arising from the chemical: This material may decompose and burn at high temperature and fire and release toxic fumes.

Special protective actions for fire-fighters: Wear self-contained breathing apparatus for firefighting if necessary. Use water spray to cool unopened containers.

Section 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

Environmental precautions: Do not enter into spillage area. Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up: Contain spillage, and then collect in a clean container according to local regulations.



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Section 7 HANDLING AND STORAGE

Precautions for safe handling: Wear protective gloves/eye protection/face protection/protective clothing. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking.

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. Keep away from flammable materials and oxidizers.

Section 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters: /

Appropriate engineering controls: Local exhaust ventilation or a process enclosure ventilation system may be required.

Individual protection measures

Eye/face protection: Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.

Skin protection: Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber. Impervious clothing,

Respiratory protection: Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant.

Thermal hazards: /

Section 9 PHYSICAL AND CHEMICAL PROPERTIES

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Appearance (physical state, colour etc)	Yellow solid crystal or powder.
Odour	/
Odour Threshold	/
pH	/
Melting point/freezing point	61-63°C.
Initial boiling point and boiling range	189°C.
Flash point	126°C.
Evaporation rate	/
Flammability (solid, gas)	/
Upper/lower flammability or explosive limits	8% (Upper explosive limits).
Vapour pressure	8.68Pa (25°C).
Vapour density	3.26.
Relative density	1.58.
Solubility(ies)	Easily soluble in water.
Partition coefficient: n-octanol/water	0.34.
Auto-ignition temperature	470°C.
Decomposition temperature	/
Viscosity	/

Section 10 STABILITY AND REACTIVITY

Reactivity: /

Chemical stability: The material is stable in normal temperature.

Possibility of hazardous reactions: Decomposes on burning. This produces toxic fumes including hydrogen chloride and phosgene. The solution in water is a medium strong acid. Attacks metals.

Conditions to avoid: Spark, high temperature and static electricity.

Incompatible materials: Oxidizers, alkalis and flammable materials.

Hazardous decomposition products: Oxycarbides and chlorides.

Section 11 TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure: Inhaled, swallowed, skin, eyes.

Symptoms related to the physical, chemical and toxicological characteristics: /

Acute health effects: Accidental ingestion of the material may be corrosive and cause cough and throat pain. Oral intake is corrosive to the mouth and cause headache, giddiness, vomit and other symptoms. This material may cause skin and eyes burn.

Chronic health effects: Repeated or prolonged exposure to acids may result in the erosion of teeth, swelling and/or ulceration of mouth lining. Irritation of airways to lung, with cough, and inflammation of lung tissue often occurs. Chronic exposure may inflame the skin or conjunctiva.

Numerical measures of toxicity(such as acute toxicity estimates):

TOXICITY



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Dermal (rabbit) LD50: 175 mg/kg
Inhalation (rat) LC50: 180 mg/m³
Oral (rat) LD50: 580 mg/kg
Oral (rat) LD50: 76 mg/kg

Section 12 ECOLOGICAL INFORMATION

Toxicity: Very toxic to aquatic life.
Persistence and degradability: /
Bioaccumulative potential: /
Mobility in soil: /
Other adverse effects: /

Section 13 DISPOSAL CONSIDERATIONS

Disposal methods: Burial in a land-fill specifically licensed to accept chemical. Reuse of broken container is forbidden.

Section 14 TRANSPORT INFORMATION

UN number: 1751.
UN proper shipping name: CHLOROACETIC ACID, SOLID.
Transport hazard class(es) : 6.1+8.
Packing group, if applicable: II.
Environmental hazards: Severe marine pollutant.
Special precautions for user: /

Section 15 REGULATORY INFORMATION

Regulations: This safety data sheet is in compliance with the following national standards: GB 16483-2008, GB 13690-2009, GB/T 15098-2008, GB 18218-2009, GB 15258-2009, GB 6944-2012, GB 190-2009, GB 191-2009, GB 12268-2008, GA 57-1993, GBZ 2-2007 as well as the following national regulations: Dangerous Goods Transport Administrative Regulation [Published by the Ministry of Railways, 2008], Dangerous Chemicals Safety Administrative Regulation [Published by the State Council, 2011].

Section 16 OTHER INFORMATION

References	UN Recommendations on the Transport of Dangerous Goods Model Regulations UN Globally Harmonized System of Classification and Labelling of Chemicals
Form Date	20-Mar-2019



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Note 1: When products contain two or more hazardous substances, Safety Data Sheets should be prepared based on the risk of the mixture.

Note 2: Manufacturer / supplier should ensure the correctness of the information contained in the safety data sheets, and updated in a timely manner.

Note 3: As a result of product features without the existence of certain information or no data available (such as boiling point does not exist for the solid) in the table with "/" logo.

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