

SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Revision number: 1 Revision date: 10/02/2018

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

1.1 Product identifiers

Product name: Chloroacetic Acid

Product code: C2123

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

Identified uses: Reagents.

1.3 Details of the supplier of the safety data sheet

Supplier:

TCI EUROPE N.V. Boerenveldseweg 6 Haven 1063 B-2070 Zwijndrecht

Telephone: +32(0)3 735 07 00 E-mail: sales-eu@tcichemicals.com

1.4 Emergency telephone number: +32(0)70 245 245

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Acute toxicity (Oral)Category 3Acute toxicity (Dermal)Category 3Acute toxicity (Inhalation)Category 3Skin corrosion/irritationCategory 1BAcute aquatic hazardCategory 1

2.2 Label elements

Pictograms or hazard symbols



Signal word Danger

Hazard statements H301+H311+H331-Toxic if swallowed, in contact with skin or if inhaled.

H314-Causes severe skin burns and eye damage.

Precautionary statements H400-Very toxic to aquatic life.
P260-Do not breathe dusts or mists.

P280-Wear protective gloves, protective clothing, face protection.

P301+P330+P331+P310-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a

POISON CENTER or doctor.

P303+P361+P353+P310+P363-IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER or doctor. Wash contaminated

clothing before reuse.

P304+P340+P310-IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTER or doctor.

P305+P351+P338+P310-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 or doctor.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable

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SECTION 3: Composition/information on ingredients

3.1 Substances

 Components:
 Chloroacetic Acid

 Percent:
 >99.0%(GC)(T)

 CAS RN:
 79-11-8

 EC-No:
 201-178-4

Synonyms: Monochloroacetic Acid

Chemical Formula: C₂H₃ClO₂

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a

POISON CENTER or doctor/physician.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water.

Immediately call a POISON CENTER or doctor/physician.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.

Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Dry chemical, foam, water spray, carbon dioxide.

5.2 Special hazards arising from the

substance or mixture

Carbon monoxide, carbon dioxide etc

5.3 Advice for firefighters Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according

to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so. When extinguishing fire, be sure

to wear personal protective equipment

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area

by roping off, etc

6.2 Environmental precautionsBe careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned

6.3 Methods and materials for containment and cleaning up

Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

6.4 Reference to other sections For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated. Avoid contact with skin, eyes and clothing.

Use corrosive resistant equipment.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store under inert gas.

Protect from moisture.

Store locked up. Store away from incompatible materials such as oxidizing agents.

Hygroscopic

7.3 Specific end use(s)No further relevant information available.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters No data available

8.2 Exposure controls Install a closed system or local exhaust. Also install safety shower and eye bath.

Respiratory protection: Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators

approved under appropriate government standards and follow local and national regulations.

Impervious gloves.

Safety goggles. A face-shield, if the situation requires. Eye protection:

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state (20°C):

Form: Crystal - Powder Colour: White - Very pale yellow Odour: Strong Acetic acid-like pH: <1 (800g/L H₂O soln. 20°C)

Melting point/freezing point: 65°C Boiling point/range: 189°C

Flash point: No data available Evaporation rate(Butyl Acetate=1): No data available Flammability(solid, gas): No data available

Flammability or explosive limits:

8% Lower:

No data available Upper: 8.68Pa/25°C Vapour pressure: 3.26

Vapour density:

No data available Relative density:

Solubility(ies):

Hand protection:

[Water] Verv soluble

[Other solvents]

Soluble: Ether, Alcohols, Many organic solvents

Partition coefficient: 0.22 n-octanol/water: 470°C Autoignition temperature:

No data available Decomposition temperature: **Dynamic Viscosity:** No data available Kinematic viscosity: No data available

No data available 9.2 Other safety information

SECTION 10: Stability and reactivity

No data available 10.1 Reactivity

10.2 Chemical stability Stable under proper conditions.

No special reactivity has been reported. 10.3 Possibility of hazardous reactions

10.4 Conditions to avoid No data available

10.5 Incompatible materials Oxidizing agents, Strong bases, Reducing agents

10.6 Hazardous decomposition products Carbon monoxide, carbon dioxide etc

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute Toxicity: orl-rat LD50:55 mg/kg

skn-rat LDLo:125 mg/kg ihl-rat LC50:180 mg/m³ scu-rat LD50:5 mg/kg orl-man LDLo:0.89 mL/kg

Skin corrosion/irritation: No data available
Serious eye damage/irritation: No data available
Respiratory or skin sensitization: No data available

Germ cell mutagenicity: mmo-mus-lym 548 mg/L (+/-S9) **Carcinogenicity:** scu-mus TDLo:100 mg/kg

IARC = No data available
NTP = No data available
Reproductive toxicity: No data available
STOT-single exposure: No data available
STOT-repeated exposure: No data available
Aspiration hazard: No data available
RTECS Number: AF8575000

SECTION 12: Ecological information

12.1 Toxicity

Fish: 96h LC50:72 mg/L (Oryzias latipes)

Crustacea: No data available

Algae: 72h EC50:0.16 mg/L (Selenastrum capricornutum)

72h NOEC:0.0058 mg/L (Selenastrum capricornutum)

12.2 Persistence and degradability 65.0~% (by BOD) , 98.8~% (by TOC) , 100~% (by GC)

12.3 Bioaccumulative potential 3.2

12.4 Mobility in soil

 Log Pow:
 0.22

 Soil adsorption (Koc):
 31

 Henry's Law (PaM³/mol):
 9.38 x 10⁴

12.5 Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable

12.6 Other adverse effectsNo data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recycle to process, if possible. Consult your local regional authorities. Observe all federal, state and local regulations when disposing of the substance.

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SECTION 14: Transport information

14.1 UN number 1751

14.2 UN proper shipping name

ADR/RID Chloroacetic acid. solid IMDG/IMO Chloroacetic acid, solid ICAO/IATA Chloroacetic acid, solid

14.3 Transport hazard class(es)

ADR/RID 6.1: Toxic substance

Subsidiary risk: 8: Corrosive.

IMDG/IMO 6.1: Toxic substance

Subsidiary risk: 8: Corrosive.

ICAO/IATA 6.1: Toxic substance

Subsidiary risk: 8: Corrosive.

14.4 Packaging group

ADR/RID IMDG/IMO Ш ICAO/IATA Ш

14.5 Environmental hazards

Marine pollutant

14.6 Special precautions for user No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Water Hazard Classes (WGK): Class 2 - Hazard to waters Not listed

Substance of Very High Concern (SVHC) according to the

REACH Regulations (EC) No.1907/2006

A chemical safety assessment has not been carried out.

SECTION 16: Other information

15.2 Chemical safety assessment

TCI EUROPE N.V. Prepared by: Issue date: 10/02/2018

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

End of Safety Data Sheet

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