

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Chloroacetic acid, 50 g

Print date: 14.04.2015

Product code: 9991231

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Chloroacetic acid, 50 g

CAS No: 79-11-8
Index No: 607-003-00-1
EC No: 201-178-4

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Laboratory chemicals

1.3. Details of the supplier of the safety data sheet**Seller**

Company name: CONATEX-DIDACTIC Lehrmittel GmbH
Street: Im Forstgarten 1
Place: D-66459 Kirkel
Internet: www.conatex.com

Supplier

Company name: Carbolution Chemicals GmbH
Street: Im Stadtwald, Gebäude A1.2
Place: D-66123 Saarbrücken
Contact person: Dr. Michael Bauer Telephone: +49 (0)681 302-71232
e-mail: michael.bauer@carbolution-chemicals.de
Internet: www.carbolution-chemicals.de

1.4. Emergency telephone number:

+49 (0)681 302-71232

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Directive 67/548/EEC or 1999/45/EC**

Indications of danger: T - Toxic, C - Corrosive, N - Dangerous for the environment

R phrases:

Toxic by inhalation, in contact with skin and if swallowed.

Causes burns.

Very toxic to aquatic organisms.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:

Acute toxicity: Acute Tox. 3

Acute toxicity: Acute Tox. 3

Acute toxicity: Acute Tox. 3

Skin corrosion/irritation: Skin Corr. 1B

Hazardous to the aquatic environment: Aquatic Acute 1 (M-Factor = 1)

Hazard Statements:

Toxic if inhaled.

Toxic in contact with skin.

Toxic if swallowed.

Causes severe skin burns and eye damage.

Very toxic to aquatic life.

2.2. Label elements

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Hazardous components which must be listed on the label

chloroacetic acid

Signal word:

Danger

Pictograms:

GHS05-GHS06-GHS09



Hazard statements

- H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.
 H314 Causes severe skin burns and eye damage.
 H335 May cause respiratory irritation.
 H400 Very toxic to aquatic life.

Precautionary statements

- P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula: $C_2H_3ClO_2$
 Molecular weight: 94,50

Hazardous components

| EC No | Chemical name | Quantity |
|--------------|--|----------|
| CAS No | Classification according to Directive 67/548/EEC | |
| Index No | Classification according to Regulation (EC) No. 1272/2008 [CLP] | |
| 201-178-4 | chloroacetic acid | 100 % |
| 79-11-8 | T - Toxic, C - Corrosive, N - Dangerous for the environment R23/24/25-34-50 | |
| 607-003-00-1 | Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, Aquatic Acute 1; H331 H311 H301 H314 H400 | |

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down.

After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Call a physician immediately.

After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Call a physician immediately.

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After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Potential hazards:
Gastric perforation. Call a physician immediately.

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**

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Avoid generation of dust. Do not breathe dust. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid generation of dust. Do not breathe dust.

Advice on protection against fire and explosion

Only use the material in places where open light, fire and other flammable sources can be kept away.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only.
Provide adequate ventilation as well as local exhaustion at critical locations.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

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Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|---------|-----------------------|-----|-------------------|-----------|---------------|--------|
| 79-11-8 | Monochloroacetic acid | 0.3 | 1.2 | | TWA (8 h) | WEL |
| | | - | - | | STEL (15 min) | WEL |

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Eye/face protection

Eye protection: Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): DIN EN 166

Hand protection

Hand protection: Single-use gloves. Before using check leak tightness / impermeability. Use gloves only once. German Industry Norms (DIN) / European Norms (EN): DIN EN 374

Skin protection

Body protection: Lab apron. Only wear fitting, comfortable and clean protective clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Suitable respiratory protective equipment: particulates filter device (DIN EN 143).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------|-------------------|
| Physical state: | solid |
| Colour: | colourless |
| Odour: | No data available |

Test method

| | |
|----------------------|-------------------|
| pH-Value (at 20 °C): | 0,9999999 800 g/l |
|----------------------|-------------------|

Changes in the physical state

| | |
|--|-------------------|
| Melting point: | 60 °C |
| Initial boiling point and boiling range: | 189 °C |
| Sublimation point: | No data available |
| Softening point: | No data available |
| Flash point: | 126 °C |

Flammability

| | |
|--------|-------------------|
| Solid: | No data available |
| Gas: | No data available |

| | |
|-------------------------|-------------------|
| Lower explosion limits: | 8 vol. % |
| Upper explosion limits: | No data available |
| Ignition temperature: | No data available |

Auto-ignition temperature

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| | |
|--------------------------------|-------------------|
| Solid: | No data available |
| Gas: | No data available |
| Vapour pressure: (at 20 °C) | 0,2 hPa |
| Vapour pressure: (at 50 °C) | 2 hPa |
| Density: | No data available |
| Water solubility: | No data available |
| Partition coefficient: | 0,2 |
| Viscosity / dynamic: | No data available |
| Viscosity / kinematic: | No data available |
| Flow time: | No data available |
| Vapour density: | No data available |
| Evaporation rate: | No data available |
| Solvent separation test: | No data available |
| Solvent content: | No data available |

9.2. Other information

| | |
|----------------|-------------------|
| Solid content: | No data available |
|----------------|-------------------|

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Oxidizing agents, strong.

10.6. Hazardous decomposition products

No data available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

Toxicological data are not available.

Acute toxicity

Toxic. Acute dermal toxicity. Acute inhalation toxicity. Acute oral toxicity.

| CAS No | Chemical name | | | | |
|---------|--------------------|--------|-----------|---------|--------|
| | Exposure routes | Method | Dose | Species | Source |
| 79-11-8 | chloroacetic acid | | | | |
| | oral | ATE | 100 mg/kg | | |
| | dermal | ATE | 300 mg/kg | | |
| | inhalative vapour | ATE | 3 mg/l | | |
| | inhalative aerosol | ATE | 0,5 mg/l | | |

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Irritation and corrosivity

Causes severe skin burns and eye damage. If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

Sensitising effects

No data available

Severe effects after repeated or prolonged exposure

No data available

Carcinogenic/mutagenic/toxic effects for reproduction

Due to missing data no statement can be made whether the substance fulfills the criteria of CMR categories 1 or 2. Practical experiences do not give any evidence for CMR activity of categories 1 or 2.

Specific effects in experiment on an animal

No data available

Additional information on tests

This mixture is classified as hazardous according to 1999/45/EC. Special hazards arising from the substance or mixture!

Practical experience**Observations relevant to classification**

No data available

SECTION 12: Ecological information**12.1. Toxicity**

Very toxic to aquatic organisms.

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Advice on disposal**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
Classified as hazardous waste.

Waste disposal number of used product

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160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
Classified as hazardous waste.

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances
Classified as hazardous waste.

Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 1751
14.2. UN proper shipping name: CHLOROACETIC ACID, SOLID
14.3. Transport hazard class(es): 6.1
14.4. Packing group: II
Hazard label: 6.1+8
Classification code: TC2
Limited quantity: 500 g
Transport category: 2
Hazard No: 68
Tunnel restriction code: D/E

Other applicable information (land transport)

E4

Inland waterways transport (ADN)

14.1. UN number: UN 1751
14.2. UN proper shipping name: CHLOROACETIC ACID, SOLID
14.3. Transport hazard class(es): 6.1
14.4. Packing group: II
Hazard label: 6.1+8
Classification code: TC2
Special Provisions: 802
Limited quantity: 500 g

Other applicable information (inland waterways transport)

E4

Marine transport (IMDG)

14.1. UN number: UN 1751
14.2. UN proper shipping name: CHLOROACETIC ACID, SOLID
14.3. Transport hazard class(es): 6.1
14.4. Packing group: II
Hazard label: 6.1+8
Special Provisions: -
Limited quantity: 500 g
EmS: F-A, S-B

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Other applicable information (marine transport)

E4

Air transport (ICAO)

| | |
|--|--------------------------|
| 14.1. UN number: | UN 1751 |
| 14.2. UN proper shipping name: | CHLOROACETIC ACID, SOLID |
| 14.3. Transport hazard class(es): | 6.1 |
| 14.4. Packing group: | II |
| Hazard label: | 6.1+8 |
| Limited quantity Passenger: | 1 kg |
| IATA-packing instructions - Passenger: | 668 |
| IATA-max. quantity - Passenger: | 15 kg |
| IATA-packing instructions - Cargo: | 675 |
| IATA-max. quantity - Cargo: | 50 kg |

Other applicable information (air transport)

E4

: Y644

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes

SECTION 15: Regulatory information

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

EU regulatory information

Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

National regulatory information

Water contaminating class (D): 3 - highly water contaminating

SECTION 16: Other information

Relevant R-phrases (Number and full text)

| | |
|----------|---|
| 23/24/25 | Toxic by inhalation, in contact with skin and if swallowed. |
| 34 | Causes burns. |
| 50 | Very toxic to aquatic organisms. |

Relevant H- and EUH-phrases (Number and full text)

| | |
|----------------|---|
| H301 | Toxic if swallowed. |
| H301+H311+H331 | Toxic if swallowed, in contact with skin or if inhaled. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H331 | Toxic if inhaled. |
| H335 | May cause respiratory irritation. |
| H400 | Very toxic to aquatic life. |