

**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<sub>2</sub>H<sub>3</sub>ClO<sub>2</sub>  
 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 <sup>3</sup>	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
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**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)**

<b>14.1. UN number:</b>	UN 1751
<b>14.2. UN proper shipping name:</b>	CHLOROACETIC ACID, SOLID
<b>14.3. Transport hazard class(es):</b>	6.1
<b>14.4. Packing group:</b>	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.