

# Safety data sheet

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



## Chloroacetic acid $\geq 99,5$ %, p.a.

article number: **9849**  
Version: **1.1 en**  
Replaces version of: 2016-06-17  
Version: (1)

date of compilation: 2016-06-17  
Revision: 2021-02-17

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

### 1.1 Product identifier

|                                 |   |
|---------------------------------|---|
| Identification of the substance | <b>Chloroacetic acid <math>\geq 99,5</math> %, p.a.</b>   |
| Article number                  | 9849  |
| Registration number (REACH)     | It is not required to list the identified uses because the substance is not subject to registration according to REACH (< 1 t/a). |
| Index number in CLP Annex VI    | 607-003-00-1  |
| EC number                       | 201-178-4   |
| CAS number                      | 79-11-8   |

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

|                           |   |
|---------------------------|---|
| Relevant identified uses: | Laboratory chemical<br>Laboratory and analytical use  |
| Uses advised against:     | Do not use for squirting or spraying. Do not use for products which come into direct contact with the skin. Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household). |

### 1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co KG  
Schoemperlenstr. 3-5  
D-76185 Karlsruhe  
Germany

**Telephone:** +49 (0) 721 - 56 06 0  
**Telefax:** +49 (0) 721 - 56 06 149  
**e-mail:** [sicherheit@carlroth.de](mailto:sicherheit@carlroth.de)  
**Website:** [www.carlroth.de](http://www.carlroth.de)

Competent person responsible for the safety data sheet: :Department Health, Safety and Environment

**e-mail (competent person):** [sicherheit@carlroth.de](mailto:sicherheit@carlroth.de)

### 1.4 Emergency telephone number

| Name  | Street    | Postal code/city     | Telephone    | Website |
|---|-----------|----------------------|--------------|---------|
| National Poisons Information Service<br>City Hospital | Dudley Rd | B187QH<br>Birmingham | 844 892 0111 |         |

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 (CLP)

| Section | Hazard class  | Cat-egory | Hazard class and category | Hazard statement |
|---------|---|-----------|---------------------------|------------------|
| 3.1O    | Acute toxicity (oral)   | 3         | Acute Tox. 3              | H301             |
| 3.1D    | Acute toxicity (dermal)   | 3         | Acute Tox. 3              | H311             |
| 3.1I    | Acute toxicity (inhal.)   | 3         | Acute Tox. 3              | H331             |
| 3.2     | Skin corrosion/irritation   | 1B        | Skin Corr. 1B             | H314             |
| 3.8R    | Specific target organ toxicity - single exposure (respiratory tract irritation) | 3         | STOT SE 3                 | H335             |
| 4.1A    | Hazardous to the aquatic environment - acute hazard                             | 1         | Aquatic Acute 1           | H400             |

For full text of abbreviations: see SECTION 16

#### The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis. Spillage and fire water can cause pollution of watercourses.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008 (CLP)

##### 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

###### Precautionary statements - prevention

P261 Avoid breathing dust  
P280 Wear protective gloves/eye protection

###### Precautionary statements - response

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]  
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

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### Labelling of packages where the contents do not exceed 125 ml

Signal word: **Danger**

Symbol(s)



H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.  
H314 Causes severe skin burns and eye damage.

P261 Avoid breathing dust.

P280 Wear protective gloves/eye protection.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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.

## 2.3 Other hazards

### Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                   |                   |
|-------------------|-------------------|
| Name of substance | Chloroacetic acid |
| Molecular formula | $C_2H_3ClO_2$     |
| Molar mass        | 94,49 g/mol       |
| CAS No            | 79-11-8           |
| EC No             | 201-178-4         |
| Index No          | 607-003-00-1      |

| Specific Conc. Limits         | M-Factors               | ATE                                    | Exposure route                              |
|-------------------------------|-------------------------|--|---|
| STOT SE 3; H335: C $\geq 5$ % | M-factor (acute) = 10.0 | 90,4 mg/kg<br>305 mg/kg<br>0,5 mg/l/4h | oral<br>dermal<br>inhalation: dust/<br>mist |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures



#### General notes

Take off immediately all contaminated clothing. Self-protection of the first aider.

#### Following inhalation

Call a physician immediately. If breathing is irregular or stopped, administer artificial respiration.

#### Following skin contact

After contact with skin, wash immediately with plenty of water. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

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## Following eye contact

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. Protect uninjured eye.

## Following ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately. If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

## 4.2 Most important symptoms and effects, both acute and delayed

Corrosion, Unconsciousness, Agitation, Risk of blindness, Gastric perforation, Vomiting, Spasms, Cough, Dyspnoea

## 4.3 Indication of any immediate medical attention and special treatment needed

none

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media



#### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings  
water, foam, alcohol resistant foam, dry extinguishing powder, ABC-powder

#### Unsuitable extinguishing media

water jet

### 5.2 Special hazards arising from the substance or mixture

Combustible. Vapours are heavier than air, spread along floors and form explosive mixtures with air.

#### Hazardous combustion products

In case of fire may be liberated: Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Hydrogen chloride (HCl)

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus. Wear full chemical protective clothing.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures



#### For non-emergency personnel

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. Do not breathe dust.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. The product is an acid. Before discharge into sewage plants the product normally needs to be neutralised.

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## 6.3 Methods and material for containment and cleaning up

### Advice on how to contain a spill

Covering of drains. Take up mechanically.

### Advice on how to clean up a spill

Take up mechanically. Control of dust.

### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

## 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Provision of sufficient ventilation. Use extractor hood (laboratory). Handle and open container with care. Avoid dust formation. Clear contaminated areas thoroughly.

### Measures to protect the environment

Avoid release to the environment.

### Advice on general occupational hygiene

When using do not eat or drink. Thorough skin-cleansing after handling the product.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place.

### Incompatible substances or mixtures

Observe hints for combined storage.

### Consideration of other advice

Store locked up.

### Ventilation requirements

Keep any substance that emits harmful vapours or gases in a place that allows these to be permanently extracted.

### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 – 25 °C

### 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### National limit values

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### Occupational exposure limit values (Workplace Exposure Limits)

| Country | Name of agent         | CAS No  | Identifier | TWA [mg/m <sup>3</sup> ] | STEL [mg/m <sup>3</sup> ] | Ceiling-C [mg/m <sup>3</sup> ] | Notation | Source    |
|---------|-----------------------|---------|------------|--------------------------|---------------------------|--------------------------------|----------|-----------|
| GB      | monochloroacetic acid | 79-11-8 | WEL        | 1,2                      |                           |                                |          | EH40/2005 |

#### Notation

Ceiling-C  
STEL

Ceiling value is a limit value above which exposure should not occur  
Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA

Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

### Human health values

| Relevant DNELs and other threshold levels |                       |                                    |                   |                            |
|---|-----------------------|------------------------------------|-------------------|----------------------------|
| Endpoint                                  | Threshold level       | Protection goal, route of exposure | Used in           | Exposure time              |
| DNEL                                      | 8 mg/m <sup>3</sup>   | human, inhalatory                  | worker (industry) | acute - systemic effects   |
| DNEL                                      | 0,07 mg/kg bw/day     | human, dermal                      | worker (industry) | chronic - systemic effects |
| DNEL                                      | 4 mg/m <sup>3</sup>   | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| DNEL                                      | 2 mg/m <sup>3</sup>   | human, inhalatory                  | worker (industry) | chronic - local effects    |
| DNEL                                      | 5,7 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | acute - local effects      |

### Environmental values

| Relevant PNECs and other threshold levels |                               |                       |                              |                              |
|---|-------------------------------|-----------------------|------------------------------|------------------------------|
| End-point                                 | Threshold level               | Organism              | Environmental compartment    | Exposure time                |
| PNEC                                      | 0,66 $\mu\text{g}/\text{l}$   | aquatic organisms     | water                        | intermittent release         |
| PNEC                                      | 0,7 $\mu\text{g}/\text{l}$    | aquatic organisms     | freshwater                   | short-term (single instance) |
| PNEC                                      | 0,07 $\mu\text{g}/\text{l}$   | aquatic organisms     | marine water                 | short-term (single instance) |
| PNEC                                      | 1,6 $\text{mg}/\text{l}$      | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| PNEC                                      | 2,57 $\mu\text{g}/\text{kg}$  | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| PNEC                                      | 0,257 $\mu\text{g}/\text{kg}$ | aquatic organisms     | marine sediment              | short-term (single instance) |
| PNEC                                      | 0,006 $\text{mg}/\text{kg}$   | terrestrial organisms | soil                         | short-term (single instance) |

## 8.2 Exposure controls

### Individual protection measures (personal protective equipment)

#### Eye/face protection



Use safety goggle with side protection. Wear face protection.

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### Skin protection



#### • hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

#### • type of material

NBR (Nitrile rubber)

#### • material thickness

>0,11 mm

#### • breakthrough times of the glove material

>480 minutes (permeation: level 6)

#### • other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

### Respiratory protection



Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P3 (filters at least 99,95 % of airborne particles, colour code: White).

### Environmental exposure controls

Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |   |
|--|---|
| Physical state   | solid   |
| Form   | crystalline   |
| Colour   | white   |
| Odour  | stinging  |
| Melting point/freezing point                             | 63 °C at 1.013 hPa (ECHA)                                 |
| Boiling point or initial boiling point and boiling range | 190 °C at 1.013 hPa (ECHA)                                |
| Flammability   | this material is combustible, but will not ignite readily |

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|                                 |  |
|---------------------------------|--|
| Lower and upper explosion limit | not determined                           |
| Flash point                     | 126 °C                                   |
| Auto-ignition temperature       | not determined                           |
| Decomposition temperature       | not relevant                             |
| pH (value)                      | <1 (in aqueous solution: 800 g/l, 20 °C) |
| Kinematic viscosity             | not relevant                             |

### Solubility(ies)

Water solubility >1.000 g/l at 20 °C (ECHA)

### Partition coefficient

Partition coefficient n-octanol/water (log value): 0,49 (ECHA)

Vapour pressure 2,14 Pa at 20 °C

Density 1,64 g/cm<sup>3</sup> at 20 °C

Relative vapour density 3,26 at 20 °C (air = 1)

Particle characteristics no data available

### Other safety parameters

Oxidising properties none

## 9.2 Other information

Information with regard to physical hazard classes: hazard classes acc. to GHS (physical hazards): not relevant

Other safety characteristics:

Surface tension 73,1 mN/m (20 °C) (ECHA)

Temperature class (EU, acc. to ATEX) T1  
Maximum permissible surface temperature on the equipment: 450°C

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.



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## 10.3 Possibility of hazardous reactions

**Release of an acute toxic gas:** Metals,  
**Exothermic reaction with:** Reducing agents, strong oxidiser, Amines, Alkalis,  
**Danger of explosion:** Hydrogen peroxide

## 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

## 10.5 Incompatible materials

There is no additional information.

## 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Classification according to GHS (1272/2008/EC, CLP)**

#### Acute toxicity

Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.

| Acute toxicity            |          |                              |         |        |        |
|---------------------------|----------|------------------------------|---------|--------|--------|
| Exposure route            | Endpoint | Value                        | Species | Method | Source |
| oral                      | LD50     | 90,4 mg/kg                   | rat     |        | ECHA   |
| inhalation: dust/<br>mist | LC50     | >1.268 mg/m <sup>3</sup> /4h | rat     |        | ECHA   |
| dermal                    | LD50     | 305 mg/kg                    | rat     |        | ECHA   |

#### Skin corrosion/irritation

Causes severe skin burns and eye damage.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

#### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

May cause respiratory irritation.

#### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

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## Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## Symptoms related to the physical, chemical and toxicological characteristics

### • If swallowed

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects)

### • If in eyes

causes burns, Causes serious eye damage, risk of blindness

### • If inhaled

Dyspnoea, Irritation to respiratory tract, cough

### • If on skin

causes severe burns, causes poorly healing wounds

## Other information

Cardiac arrhythmias, Spasms, Unconsciousness

## SECTION 12: Ecological information

### 12.1 Toxicity

Very toxic to aquatic life.

| Aquatic toxicity (acute) |            |                       |               |
|--------------------------|------------|-----------------------|---------------|
| Endpoint                 | Value      | Species               | Exposure time |
| LC50                     | 369 mg/l   | fish                  | 96 h          |
| EC50                     | 74,2 mg/l  | aquatic invertebrates | 48 h          |
| ErC50                    | 0,033 mg/l | algae                 | 72 h          |

| Aquatic toxicity (chronic) |         |         |               |
|----------------------------|---------|---------|---------------|
| Endpoint                   | Value   | Species | Exposure time |
| LC50                       | 57 mg/l | fish    | 35 d          |

## Biodegradation

The substance is readily biodegradable. The relevant substances of the mixture are readily biodegradable.

### 12.2 Process of degradability

Theoretical Oxygen Demand with nitrification: 0,5079 mg/mg  
Theoretical Oxygen Demand without nitrification: 0,5079 mg/mg  
Theoretical Carbon Dioxide: 0,9315 mg/mg

| Process of degradability |                  |      |
|--------------------------|------------------|------|
| Process                  | Degradation rate | Time |
| DOC removal              | >95 %            | 10 d |
| oxygen depletion         | 69 %             | 28 d |

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## 12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.

|                           |             |
|---------------------------|-------------|
| n-octanol/water (log KOW) | 0,49 (ECHA) |
|---------------------------|-------------|

## 12.4 Mobility in soil

Data are not available.

## 12.5 Results of PBT and vPvB assessment

Data are not available.

## 12.6 Endocrine disrupting properties

Not listed.

## 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

#### Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.

### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Waste catalogue ordinance (Germany).

### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

## SECTION 14: Transport information

### 14.1 UN number or ID number

|             |         |
|-------------|---------|
| ADR/RID/ADN | UN 1751 |
| IMDG-Code   | UN 1751 |
| ICAO-TI     | UN 1751 |

### 14.2 UN proper shipping name

|             |                          |
|-------------|--------------------------|
| ADR/RID/ADN | CHLOROACETIC ACID, SOLID |
| IMDG-Code   | CHLOROACETIC ACID, SOLID |
| ICAO-TI     | Chloroacetic acid, solid |

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### 14.3 Transport hazard class(es)

|             |         |
|-------------|---------|
| ADR/RID/ADN | 6.1 (8) |
| IMDG-Code   | 6.1 (8) |
| ICAO-TI     | 6.1 (8) |

### 14.4 Packing group

|             |    |
|-------------|----|
| ADR/RID/ADN | II |
| IMDG-Code   | II |
| ICAO-TI     | II |

**14.5 Environmental hazards** hazardous to the aquatic environment

### 14.6 Special precautions for user


Provisions for dangerous goods (ADR) should be complied within the premises.

### 14.7 Maritime transport in bulk according to IMO instruments


The cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

#### **Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information**

|   |  |
|---|--|
| Classification code   | TC2  |
| Danger label(s)   | 6.1+8, "Fish and tree"                     |
|  |  |
| Environmental hazards   | yes (hazardous to the aquatic environment) |
| Special provisions (SP)   | 802(ADN)                                   |
| Excepted quantities (EQ)  | E4   |
| Limited quantities (LQ)   | 500 g                                      |
| Transport category (TC)   | 2  |
| Tunnel restriction code (TRC)   | D/E  |
| Hazard identification No  | 68   |
| <b>Emergency Action Code</b>  | 2X   |

#### **International Maritime Dangerous Goods Code (IMDG) - Additional information**

|   |  |
|---|--|
| Marine pollutant  | yes (hazardous to the aquatic environment) |
| Danger label(s)   | 6.1+8, "Fish and tree"                     |
|  |  |
| Excepted quantities (EQ)  | E4   |
| Limited quantities (LQ)   | 500 g                                      |
| EmS   | F-A, S-B                                   |
| Stowage category  | C  |

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|   |  |
|---|--|
| Segregation group   | 1 - Acids                                  |
| <b>International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information</b> |  |
| Environmental hazards   | yes (hazardous to the aquatic environment) |
| Danger label(s)   | 6.1+8                                      |
|   |  |
| Excepted quantities (EQ)  | E4   |
| Limited quantities (LQ)   | 1 kg                                       |

## SECTION 15: Regulatory information

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

#### Relevant provisions of the European Union (EU)

##### Restrictions according to REACH, Annex XVII

not listed

##### List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

not listed

##### Seveso Directive

| 2012/18/EU (Seveso III) |                                       |   |       |
|-------------------------|---------------------------------------|---|-------|
| No                      | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the application of lower and upper-tier requirements | Notes |
| H2                      | acute toxic (cat. 2 + cat. 3, inhal.) | 50                      200   | 41)   |

##### Notation

- 41) - Category 2, all exposure routes
- category 3, inhalation exposure route

##### Deco-Paint Directive (2004/42/EC)

|             |                    |
|-------------|--------------------|
| VOC content | 100 %<br>1.640 g/l |
|-------------|--------------------|

##### Directive on industrial emissions (VOCs, 2010/75/EU)

|             |       |
|-------------|-------|
| VOC content | 0 %   |
| VOC content | 0 g/l |

##### Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

not listed

##### Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

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### Water Framework Directive (WFD)

#### List of pollutants (WFD)

| Name of substance | Name acc. to inventory  | CAS No | Listed in | Remarks |
|-------------------|---|--------|-----------|---------|
| Chloroacetic acid | Organohalogen compounds and substances which may form such compounds in the aquatic environment |        | A)        |         |

#### Legend

A) Indicative list of the main pollutants

### Regulation 98/2013/EU on the marketing and use of explosives precursors

not listed

### Regulation 111/2005/EC laying down rules for the monitoring of trade between the Community and third countries in drug precursors

not listed

### Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)

not listed

### Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC)

not listed

### National inventories

| Country | Inventory  | Status              |
|---------|------------|---------------------|
| AU      | AICS       | substance is listed |
| CA      | DSL        | substance is listed |
| CN      | IECSC      | substance is listed |
| EU      | ECSI       | substance is listed |
| EU      | REACH Reg. | substance is listed |
| JP      | CSCL-ENCS  | substance is listed |
| KR      | KECI       | substance is listed |
| MX      | INSQ       | substance is listed |
| NZ      | NZIoC      | substance is listed |
| PH      | PICCS      | substance is listed |
| TR      | CICR       | substance is listed |
| TW      | TCSI       | substance is listed |
| US      | TSCA       | substance is listed |

#### Legend

AICS Australian Inventory of Chemical Substances  
CICR Chemical Inventory and Control Regulation  
CSCL-ENCS List of Existing and New Chemical Substances (CSCL-ENCS)  
DSL Domestic Substances List (DSL)  
ECSI EC Substance Inventory (EINECS, ELINCS, NLP)  
IECSC Inventory of Existing Chemical Substances Produced or Imported in China  
INSQ National Inventory of Chemical Substances  
KECI Korea Existing Chemicals Inventory  
NZIoC New Zealand Inventory of Chemicals  
PICCS Philippine Inventory of Chemicals and Chemical Substances (PICCS)  
REACH Reg. REACH registered substances  
TCSI Taiwan Chemical Substance Inventory

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Chloroacetic acid ≥99,5 %, p.a.

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## Legend

TSCA Toxic Substance Control Act

## 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

## SECTION 16: Other information

### Indication of changes (revised safety data sheet)

Alignment to regulation: Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

Restructuring: section 9, section 14

### Abbreviations and acronyms

| Abbr.       | Descriptions of used abbreviations  |
|-------------|---|
| ADN         | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR         | Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)                                       |
| ADR/RID/ADN | European Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN)  |
| ATE         | Acute Toxicity Estimate   |
| CAS         | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)  |
| Ceiling-C   | Ceiling value   |
| CLP         | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures  |
| DGR         | Dangerous Goods Regulations (see IATA/DGR)  |
| DNEL        | Derived No-Effect Level   |
| EC50        | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval                                      |
| EC No       | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)                                     |
| EH40/2005   | EH40/2005 Workplace exposure limits ( <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a> )                                 |
| EINECS      | European Inventory of Existing Commercial Chemical Substances   |
| ELINCS      | European List of Notified Chemical Substances   |
| EmS         | Emergency Schedule  |
| ErC50       | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control  |
| GHS         | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations   |
| IATA        | International Air Transport Association   |
| IATA/DGR    | Dangerous Goods Regulations (DGR) for the air transport (IATA)  |
| ICAO        | International Civil Aviation Organization   |
| ICAO-TI     | Technical instructions for the safe transport of dangerous goods by air   |
| IMDG        | International Maritime Dangerous Goods Code   |

# Safety data sheet

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



## Chloroacetic acid ≥99,5 %, p.a.

article number: 9849

| Abbr.     | Descriptions of used abbreviations   |
|-----------|--|
| IMDG-Code | International Maritime Dangerous Goods Code  |
| index No  | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008   |
| LC50      | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval  |
| LD50      | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval   |
| M-factor  | Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present |
| NLP       | No-Longer Polymer  |
| PBT       | Persistent, Bioaccumulative and Toxic  |
| PNEC      | Predicted No-Effect Concentration  |
| REACH     | Registration, Evaluation, Authorisation and Restriction of Chemicals   |
| RID       | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)  |
| STEL      | Short-term exposure limit  |
| SVHC      | Substance of Very High Concern   |
| TWA       | Time-weighted average  |
| VOC       | Volatile Organic Compounds   |
| vPvB      | Very Persistent and very Bioaccumulative   |
| WEL       | Workplace exposure limit   |

### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.  
Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### List of relevant phrases (code and full text as stated in chapter 2 and 3)

| Code | Text                                     |
|------|--|
| H301 | Toxic if swallowed.                      |
| 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.              |

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.