

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Acetic acid 99-100%, 250 ml**

Print date: 14.04.2015

Product code: 9991313

Page 1 of 8

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

Acetic acid 99-100%, 250 ml

CAS No: 64-19-7  
Index No: 607-002-00-6  
EC No: 200-580-7

**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: C - Corrosive  
R phrases:  
Flammable.  
Causes severe burns.

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

Hazard categories:  
Flammable liquid: Flam. Liq. 3  
Skin corrosion/irritation: Skin Corr. 1A  
Hazard Statements:  
Flammable liquid and vapour.  
Causes severe skin burns and eye damage.

**2.2. Label elements****Hazardous components which must be listed on the label**

Acetic acid ... %

Signal word: Danger  
Pictograms: GHS02-GHS05

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Acetic acid 99-100%, 250 ml

Print date: 14.04.2015

Product code: 9991313

Page 2 of 8



#### Hazard statements

H226 Flammable liquid and vapour.  
H314 Causes severe skin burns and eye damage.

#### Precautionary statements

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Sum formula: C<sub>2</sub>H<sub>4</sub>O<sub>2</sub>  
Molecular weight: 60,05

#### 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] |          |
| 200-580-7    | Acetic acid ... %   | 100 %    |
| 64-19-7      | C - Corrosive R10-35  |          |
| 607-002-00-6 | Flam. Liq. 3, Skin Corr. 1A; H226 H314                          |          |

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! Move victim out of danger zone.

##### After inhalation

Provide fresh air. Medical treatment necessary.

##### After contact with skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.

##### After contact with eyes

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

##### After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Potential hazards: Stomach perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

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

No data available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Acetic acid 99-100%, 250 ml

Print date: 14.04.2015

Product code: 9991313

Page 3 of 8

#### Suitable extinguishing media

Water. Carbon dioxide (CO<sub>2</sub>). Foam. Extinguishing powder.

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

Combustible. Vapours may form explosive mixtures with air.

#### 5.3. Advice for firefighters

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

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. 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

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

#### 6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion hazard.

#### 6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). 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. Do not breathe gas/fumes/vapour/spray.

##### Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges. Vapours may form explosive mixtures with air.

#### 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. Keep in a cool, well-ventilated place. Keep away from sources of ignition. - No smoking.

##### Advice on storage compatibility

Do not store together with: Material, rich in oxygen, oxidizing.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Exposure limits (EH40)

| CAS No  | Substance   | ppm | mg/m <sup>3</sup> | fibres/ml | Category      | Origin |
|---------|-------------|-----|-------------------|-----------|---------------|--------|
| 64-19-7 | Acetic acid | 10  | 25                |           | TWA (8 h)     | EU     |
|         |             | 15  | 37                |           | STEL (15 min) | EU     |

#### 8.2. Exposure controls

##### Appropriate engineering controls

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

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Acetic acid 99-100%, 250 ml

Print date: 14.04.2015

Product code: 9991313

Page 4 of 8

gas/fumes/vapour/spray.

#### Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. 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: | liquid            |
| Colour:         | colourless        |
| Odour:          | No data available |

|           |                    |
|-----------|--------------------|
|           | <b>Test method</b> |
| pH-Value: | 2,4 60,05 g/l      |

#### Changes in the physical state

|  |                   |
|--|-------------------|
| Melting point:                           | 162 °C            |
| Initial boiling point and boiling range: | 117 °C            |
| Sublimation point:                       | No data available |
| Softening point:                         | No data available |
| Flash point:                             | 40 °C             |

#### Flammability

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

|                         |                   |
|-------------------------|-------------------|
| Lower explosion limits: | 4 vol. %          |
| Upper explosion limits: | 19,9 vol. %       |
| Ignition temperature:   | No data available |

#### Auto-ignition temperature

|        |                   |
|--------|-------------------|
| Solid: | No data available |
| Gas:   | 485 °C            |

|                                |          |
|--------------------------------|----------|
| Vapour pressure:<br>(at 20 °C) | 15,2 hPa |
|--------------------------------|----------|

|                                |          |
|--------------------------------|----------|
| Vapour pressure:<br>(at 50 °C) | 73,3 hPa |
|--------------------------------|----------|

|                     |                         |
|---------------------|-------------------------|
| Density (at 25 °C): | 1,049 g/cm <sup>3</sup> |
|---------------------|-------------------------|

|                   |                   |
|-------------------|-------------------|
| Water solubility: | No data available |
|-------------------|-------------------|

|                        |       |
|------------------------|-------|
| Partition coefficient: | -0,17 |
|------------------------|-------|

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Acetic acid 99-100%, 250 ml

Print date: 14.04.2015

Product code: 9991313

Page 5 of 8

|                          |                   |
|--------------------------|-------------------|
| 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**

Keep away from heat. Ignition hazard.

#### **10.5. Incompatible materials**

Oxidizing agents, strong.

### SECTION 11: Toxicological information

#### **11.1. Information on toxicological effects**

##### **Toxicokinetics, metabolism and distribution**

Toxicological data are not available.

##### **Acute toxicity**

| CAS No  | Chemical name     |        |            |         |        |
|---------|-------------------|--------|------------|---------|--------|
|         | Exposure routes   | Method | Dose       | Species | Source |
| 64-19-7 | Acetic acid ... % |        |            |         |        |
|         | oral              | LD50   | 3310 mg/kg | Ratte   |        |

##### **Irritation and corrosivity**

after ingestion: Irritant and corrosive effects. Potential hazards: Stomach perforation.

##### **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**

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Acetic acid 99-100%, 250 ml

Print date: 14.04.2015

Product code: 9991313

Page 6 of 8

#### Practical experience

##### Observations relevant to classification

No data available

## SECTION 12: Ecological information

### 12.1. Toxicity

| CAS No  | Chemical name            | Method | Dose    | [h]   [d] | Species       | Source |
|---------|--------------------------|--------|---------|-----------|---------------|--------|
|         | Aquatic toxicity         |        |         |           |               |        |
| 64-19-7 | Acetic acid ... %        |        |         |           |               |        |
|         | Acute crustacea toxicity | EC50   | 65 mg/l | 48 h      | Daphnia magna |        |

### 12.2. Persistence and degradability

No data available

### 12.3. Bioaccumulative potential

No data available

#### Partition coefficient n-octanol/water

| CAS No  | Chemical name     | Log Pow |
|---------|-------------------|---------|
| 64-19-7 | Acetic acid ... % | -0,17   |

### 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

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Advice on disposal

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

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.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Acetic acid 99-100%, 250 ml**

Print date: 14.04.2015

Product code: 9991313

Page 7 of 8

**Contaminated packaging**

Water (with cleaning agent). Completely emptied packages can be recycled.

**SECTION 14: Transport information****Land transport (ADR/RID)**

|  |                                   |
|--|-----------------------------------|
| <b>14.1. UN number:</b>                  | UN 2789                           |
| <b>14.2. UN proper shipping name:</b>    | Acetic acid, acetic acid, glacial |
| <b>14.3. Transport hazard class(es):</b> | 8                                 |
| <b>14.4. Packing group:</b>              | II                                |
| Hazard label:                            | 8+3                               |
| Classification code:                     | CF1                               |
| Limited quantity:                        | 1 L                               |
| Transport category:                      | 2                                 |
| Hazard No:                               | 83                                |
| Tunnel restriction code:                 | D/E                               |

**Other applicable information (land transport)**

E2

**Inland waterways transport (ADN)**

|  |                                   |
|--|-----------------------------------|
| <b>14.1. UN number:</b>                  | UN 2789                           |
| <b>14.2. UN proper shipping name:</b>    | Acetic acid, acetic acid, glacial |
| <b>14.3. Transport hazard class(es):</b> | 8                                 |
| <b>14.4. Packing group:</b>              | II                                |
| Hazard label:                            | 8+3                               |
| Classification code:                     | CF1                               |
| Limited quantity:                        | 1 L                               |

**Other applicable information (inland waterways transport)**

E2

**Marine transport (IMDG)**

|  |                                   |
|--|-----------------------------------|
| <b>14.1. UN number:</b>                  | UN 2789                           |
| <b>14.2. UN proper shipping name:</b>    | Acetic acid, acetic acid, glacial |
| <b>14.3. Transport hazard class(es):</b> | 8                                 |
| <b>14.4. Packing group:</b>              | II                                |
| Hazard label:                            | 8+3                               |
| Special Provisions:                      | -                                 |
| Limited quantity:                        | 1 L                               |
| EmS:                                     | F-E, S-C                          |

**Other applicable information (marine transport)**

E2

**Air transport (ICAO)**

|  |                                   |
|--|-----------------------------------|
| <b>14.1. UN number:</b>                  | UN 2789                           |
| <b>14.2. UN proper shipping name:</b>    | Acetic acid, acetic acid, glacial |
| <b>14.3. Transport hazard class(es):</b> | 8                                 |
| <b>14.4. Packing group:</b>              | II                                |
| Hazard label:                            | 8+3                               |
| Limited quantity Passenger:              | 0.5 L                             |

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Acetic acid 99-100%, 250 ml**

Print date: 14.04.2015

Product code: 9991313

Page 8 of 8

|  |      |
|--|------|
| IATA-packing instructions - Passenger: | 851  |
| IATA-max. quantity - Passenger:        | 1 L  |
| IATA-packing instructions - Cargo:     | 855  |
| IATA-max. quantity - Cargo:            | 30 L |

**Other applicable information (air transport)**E2  
: Y840**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

2004/42/EC (VOC): 100 %

**Additional information**

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

**National regulatory information**

Water contaminating class (D): 1 - slightly water contaminating

**SECTION 16: Other information****Relevant R-phrases (Number and full text)**

|    |                      |
|----|----------------------|
| 10 | Flammable.           |
| 35 | Causes severe burns. |

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

|      |  |
|------|--|
| H226 | Flammable liquid and vapour.             |
| H314 | Causes severe skin burns and eye damage. |