

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Acetic acid, diluted approx. 2 mol/l, 100 ml**

Print date: 14.04.2015

Product code: 9991316

Page 1 of 8

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

Acetic acid, diluted approx. 2 mol/l, 100 ml

**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: Xi - Irritant  
R phrases:  
Irritating to eyes and skin.

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

Hazard categories:  
Skin corrosion/irritation: Skin Irrit. 2  
Serious eye damage/eye irritation: Eye Irrit. 2  
Hazard Statements:  
Causes skin irritation.  
Causes serious eye irritation.

**2.2. Label elements**

Signal word: Warning  
Pictograms: GHS07

**Hazard statements**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Acetic acid, diluted approx. 2 mol/l, 100 ml

Print date: 14.04.2015

Product code: 9991316

Page 2 of 8

#### Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 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

#### 3.2. Mixtures

##### 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]	
REACH No		
200-580-7	Acetic acid ... %	10 - < 15 %
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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

##### After inhalation

Provide fresh air.

##### 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

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

##### After ingestion

Rinse mouth immediately and drink plenty of water.

#### 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 protective 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.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Acetic acid, diluted approx. 2 mol/l, 100 ml

Print date: 14.04.2015

Product code: 9991316

Page 3 of 8

#### SECTION 6: Accidental release measures

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

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

##### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

##### 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.

###### 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.

#### 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

###### 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).

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Acetic acid, diluted approx. 2 mol/l, 100 ml

Print date: 14.04.2015

Product code: 9991316

Page 4 of 8

#### SECTION 9: Physical and chemical properties

##### 9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	colourless
Odour:	No data available

##### Test method

pH-Value:	No data available
-----------	-------------------

##### **Changes in the physical state**

Initial boiling point and boiling range:	No data available
Sublimation point:	No data available
Softening point:	No data available
Flash point:	No data available

##### **Flammability**

Solid:	No data available
Gas:	No data available

Lower explosion limits:	No data available
Upper explosion limits:	No data available
Ignition temperature:	No data available

##### **Auto-ignition temperature**

Solid:	No data available
Gas:	No data available

Vapour pressure:	No data available
Vapour pressure:	No data available

Density:	No data available
----------	-------------------

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

Partition coefficient:	No data available
------------------------	-------------------

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
-------------------

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Acetic acid, diluted approx. 2 mol/l, 100 ml

Print date: 14.04.2015

Product code: 9991316

Page 5 of 8

#### 10.4. Conditions to avoid

No data available

#### 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

Irritating to eyes. After skin contact: Irritant. Harmful if inhaled. Harmful if swallowed. Harmful in contact with skin. Frequently or prolonged contact with skin may cause dermal irritation. Risk of serious damage to eyes.

##### 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).

#### Practical experience

##### Observations relevant to classification

No data available

### SECTION 12: Ecological information

#### 12.1. Toxicity

CAS No	Chemical name	Aquatic toxicity	Method	Dose	[h]   [d]	Species	Source
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

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Acetic acid, diluted approx. 2 mol/l, 100 ml

Print date: 14.04.2015

Product code: 9991316

Page 6 of 8

#### 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.

##### 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>	UN2790
<b>14.2. UN proper shipping name:</b>	Acetic acid, solution
<b>14.3. Transport hazard class(es):</b>	8
<b>14.4. Packing group:</b>	III
Hazard label:	8
Classification code:	C3
Special Provisions:	597 647
Limited quantity:	5 L
Transport category:	3
Hazard No:	80
Tunnel restriction code:	E

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Acetic acid, diluted approx. 2 mol/l, 100 ml

Print date: 14.04.2015

Product code: 9991316

Page 7 of 8

#### Other applicable information (land transport)

E1

#### Inland waterways transport (ADN)

<b>14.1. UN number:</b>	UN2790
<b>14.2. UN proper shipping name:</b>	Acetic acid, solution
<b>14.3. Transport hazard class(es):</b>	8
<b>14.4. Packing group:</b>	III
Hazard label:	8
Classification code:	C3
Special Provisions:	597 647
Limited quantity:	5 L

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

E1

#### Marine transport (IMDG)

<b>14.1. UN number:</b>	UN2790
<b>14.2. UN proper shipping name:</b>	Acetic acid, solution
<b>14.3. Transport hazard class(es):</b>	8
<b>14.4. Packing group:</b>	III
Hazard label:	8
Special Provisions:	-
Limited quantity:	5 L
EmS:	F-A, S-B

#### Other applicable information (marine transport)

E2

#### Air transport (ICAO)

<b>14.1. UN number:</b>	UN2790
<b>14.2. UN proper shipping name:</b>	Acetic acid, solution
<b>14.3. Transport hazard class(es):</b>	8
<b>14.4. Packing group:</b>	III
Hazard label:	8
Special Provisions:	A803
Limited quantity Passenger:	1 L
IATA-packing instructions - Passenger:	852
IATA-max. quantity - Passenger:	5 L
IATA-packing instructions - Cargo:	856
IATA-max. quantity - Cargo:	60 L

#### Other applicable information (air transport)

E1

: Y841

#### 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): 12 %

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Acetic acid, diluted approx. 2 mol/l, 100 ml

Print date: 14.04.2015

Product code: 9991316

Page 8 of 8

#### 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.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*