

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name:** Acetic acid 1 mol/l - 1 N**Article number:** KK62**Registration number**

A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

Mixture - Registration numbers of the components, see Chapter 3

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

Laboratory chemical

**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

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

Telefon: +49/(0)721 5606-0

Telefax: +49/(0)721 5606-149

E-Mail: [sicherheit@carlroth.de](mailto:sicherheit@carlroth.de)**Further information obtainable from:** Department Health, Safety and Environment**1.4 Emergency telephone number:**

Poison Centre Munich

Telefon +49/(0)89 19240

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

The product is not classified according to the CLP regulation.

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**Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Void  
-----**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008** Void**Hazard pictograms** Void**Signal word** Void**Hazard statements** Void**Additional information:**

Safety data sheet available on request.

**2.3 Other hazards**

All chemicals are potentially dangerous. They are therefore only be handled by specially trained personnel with the necessary care.

**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Chemical characterisation: Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

##### Dangerous components:

CAS: 64-19-7 EINECS: 200-580-7 Index Number: 607-002-00-6 Reg.nr.: 01-2119475328-30-XXXX	acetic acid  C R35 R10  Flam. Liq. 3, H226;  Met. Corr. 1, H290; Skin Corr. 1A, H314	3-<10%
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**Additional information:** For the wording of the listed risk phrases refer to section 16.

### SECTION 4: First aid measures



#### 4.1 Description of first aid measures

##### General information:

Remove any clothing soiled by the product.

##### After inhalation:

Supply fresh air; if there is any trouble seek medical help.

##### After skin contact:

Rinse with water

If skin irritation continues, consult a doctor.

##### After eye contact:

To be sure rinse opened eye under running water. If there is any trouble seek medical help.

##### After swallowing:

Rinse out mouth and drink a glass of water. Do not induce vomiting.

Seek medical treatment in case of complaints.

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

No information available.

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

No information available.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions.

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

##### For safety reasons unsuitable extinguishing agents:

For this substance/mixture no limitations of extinguishing agents are given.

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

In the event of fire development of hazardous combustion gases or vapours possible.

In case of fire, the following can be released:

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Carbon monoxide and carbon dioxide

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### 5.3 Advice for firefighters

**Protective equipment:**

Wear self-contained respiratory protective device.  
Wear fully protective suit.

## SECTION 6: Accidental release measures

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

Wear personal protective equipment.

### 6.2 Environmental precautions

Dilute with plenty of water.  
Do not allow to enter sewers/ground water or penetrate the soil.

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

Absorb with liquid-binding material (e.g. Rotisorb® Art.-Nr. 1710.1).  
Dispose of the material collected according to regulations.

### 6.4 Reference to other sections

See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

No special precautions are necessary if used correctly.

**Information about fire - and explosion protection:**

No special measures required.

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

**Storage:**

**Requirements to be met by storerooms and receptacles:**

No special requirements.

**Information about storage in one common storage facility:**

Store away from foodstuffs.

**Further information about storage conditions:**

None.

**Recommended storage temperature:**

15 - 25 °C

### 7.3 Specific end use(s)

No further relevant information available.

## SECTION 8: Exposure controls/personal protection

**Additional information about design of technical facilities:**

### 8.1 Control parameters

**Ingredients with limit values that require monitoring at the workplace:**

**64-19-7 acetic acid**

IOELV (EU) | Long-term value: 25 mg/m<sup>3</sup>, 10 ppm

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**DNELs****Worker**

<b>Long-term exposure - local effects:</b>		
<b>64-19-7 acetic acid</b>		
Inhalative	DNEL	25 mg/m <sup>3</sup> (worker)
<b>Short-term exposure - local effects:</b>		
<b>64-19-7 acetic acid</b>		
Inhalative	DNEL	25 mg/m <sup>3</sup> (worker)

**Consumer**

<b>Long-term exposure - local effects:</b>		
<b>64-19-7 acetic acid</b>		
Inhalative	DNEL	25 mg/m <sup>3</sup> (Customer)
<b>Short-term exposure - local effects:</b>		
<b>64-19-7 acetic acid</b>		
Inhalative	DNEL	25 mg/m <sup>3</sup> (Customer)

**PNECs**

<b>64-19-7 acetic acid</b>	
PNEC	85 mg/l (Sewage treatment plant)
	0.3058 mg/l (Marine water)
	1.136 mg/kg (Mws)
	11.36 mg/kg (Fresh Water sediment)
	3.058 mg/l (Fresh Water)
	30.58 mg/l (intermittent releases)

**Additional information:**

The lists valid during the making were used as basis.

**8.2 Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.

**Individual protection measures**

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

**Respiratory protection:**

Required when vapours/aerosols are generated.

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**Protection of hands:**

## Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves**Nitrile, thickness:  $\geq 0.11$  mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material**Value for the permeation: Level  $\geq 6$ 

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**As protection from splashes gloves made of the following materials are suitable:**Nitrile rubber, thickness:  $\geq 0.11$  mmValue for the permeation: Level  $\geq 6$ **Eye protection:**

Tightly sealed goggles

**Body protection:**

Protective work clothing

## SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties****General Information****Appearance:**

<b>Form:</b>	Fluid
<b>Colour:</b>	Colourless
<b>Odour:</b>	like acetic acid
<b>Odour threshold:</b>	No information available.

**pH-value:** Acidic

**Change in condition**

<b>Melting point/Melting range:</b>	No information available.
<b>Boiling point/Boiling range:</b>	No information available.

**Flash point:** No information available

**Flammability (solid, gaseous):** No information available

**Ignition temperature:** 485 °C

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# Safety data sheet

according to 1907/2006/EC, Article 31



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<b>Decomposition temperature:</b>	No information available
<b>Self-igniting:</b>	Product is not self-igniting.
<b>Danger of explosion:</b>	Product does not present an explosion hazard.
<b>Explosion limits:</b>	
<b>Lower:</b>	No information available.
<b>Upper:</b>	No information available.
<b>Oxidizing properties:</b>	No information available.
<b>Vapour pressure at 20 °C:</b>	23 hPa
<b>Density at 20 °C:</b>	1.003 g/cm <sup>3</sup>
<b>Vapour density</b>	No information available
<b>Evaporation rate</b>	No information available
<b>Solubility in / Miscibility with water:</b>	Fully miscible.
<b>Partition coefficient (n-octanol/water):</b>	No information available
<b>Viscosity:</b>	
<b>Dynamic:</b>	No information available.
<b>Kinematic:</b>	No information available.
<b>9.2 Other information</b>	No further relevant information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available

### 10.2 Chemical stability

#### Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

### 10.3 Possibility of hazardous reactions

No information available.

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials:

No information available.

### 10.6 Hazardous decomposition products:

In case of fire: see item 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity:

#### LD/LC50 values relevant for classification:

#### 64-19-7 acetic acid

Oral	LD <sub>50</sub>	3310 mg/kg (rat) (RTECS)
Dermal	LD <sub>50</sub>	1060 mg/kg (rabbit) (IUCLID)

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**Trade name: Acetic acid 1 mol/l - 1 N**

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Inhalative	LC <sub>50</sub> /4 h	11.4 mg/l (rat) (IUCLID)
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**Specific symptoms in biological assay:**

No information available.

**Primary irritant effect:****on the skin:**

No irritating effect.

**on the eye:**

No irritating effect.

**after inhalation:**

No irritating effect.

**Sensitisation:**

No sensitising effects known.

**CMR effects:****Germ cell mutagenicity:**

No information available.

**Carcinogenicity:**

No information available.

**Reproductive toxicity:**

No information available.

**Aspiration hazard:**

No aspiration toxicity classification.

**Specific target organ toxicity - single exposure**

The substance or mixture is not classified as specific target organ toxicant, single exposure.

**Specific target organ toxicity - repeated exposure**

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

**Further information:**

The product should be handled with the care usual when dealing with chemicals.

**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:****Fish toxicity:****64-19-7 acetic acid**

LC <sub>50</sub>	75 mg/l/96 h (Lepomis macrochirus) (Lit.)
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**Daphnia toxicity:****64-19-7 acetic acid**

EC5	2850 mg/l (Pseudomonas putida) (Lit.)
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EC50	47 mg/l/24 h (Daphnia magna) (Lit.)
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**12.2 Persistence and degradability**

No further relevant information available.

**12.3 Bioaccumulative potential**

No further relevant information available.

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**12.4 Mobility in soil**

No further relevant information available.

**Ecotoxicological effects:****Remark:**

Do not allow to enter waters, waste water, or soil!

**12.5 Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Other adverse effects**

No further relevant information available.

## SECTION 13: Disposal considerations

**Waste treatment methods****Recommendation**

The disposal is regionally differently regulated, therefore the kind of disposal is to be inquired at the responsible authorities.

**Uncleaned packaging:****Recommendation:**

Disposal according to official regulations.

**Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## SECTION 14: Transport information

**14.1 UN-Number**

ADR, ADN, IMDG, IATA

Void

**14.2 UN proper shipping name**

ADR, ADN, IMDG, IATA

Void

**14.3 Transport hazard class(es)**ADR, ADN, IMDG, IATA  
Class

Void

**14.4 Packing group**

ADR, IMDG, IATA

Void

**14.5 Environmental hazards:****Marine pollutant:**

No

**14.6 Special precautions for user**

Not applicable.

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

**UN "Model Regulation":**

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Trade name: Acetic acid 1 mol/l - 1 N

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## SECTION 15: Regulatory information

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

#### National regulations:

**Information about limitation of use:** Employment restrictions concerning juveniles must be observed.

#### Breakdown regulations:

Class	Share in %
II	6.0

#### Waterhazard class:

Water hazard class 1 (Self-assessment): slightly hazardous for water.

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Relevant phrases

H226 Flammable liquid and vapour.

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

R10 Flammable.

R35 Causes severe burns.

**Department issuing MSDS:** Department: Health, Safety and Environment

**Contact:** Herr Heine

#### Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

LD50\*: Lethal Dose, 50 percent (Not relevant for classification)

LD50\*: Lethal Concentration, 50 percent (Not relevant for classification)

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Met. Corr.1: Corrosive to metals, Hazard Category 1

Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

\* **Data compared to the previous version altered.**