

# Safety Data Sheet

according to Regulation (EU) No. 1907/2006

## 520.000 RENIA - Reinigungs- und Lösemittel

Print date : 14.08.2007

Product code : 520

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### 1. Identification of the substance/preparation and of the company/undertaking

#### Identification of the substance or preparation

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#### Use of the substance/preparation

cleaner, thinner

#### Company/undertaking identification

Company name : Renia - GmbH  
Chemische Fabrik  
Street : Ostmerheimer Straße 516  
Place : D-51109 Köln  
Post-office box : 910 659  
D-51076 Köln  
Telephone : +49-(0)221-6307990  
e-mail : info@renia.com  
Internet : www.renia.com  
Inquiry office : F & E, Labor  
Emergency telephone : +49-(0)221-63079924  
Telefax : +49-(0)221-63079950

### 2. Hazards identification

#### Classification

Indications of danger : Highly flammable, Irritant  
R-phrases :  
Highly flammable.  
Irritating to eyes.  
Repeated exposure may cause skin dryness or cracking.  
Vapours may cause drowsiness and dizziness.

#### Explication of special hazards for human health and environment

In use, may form flammable/explosive vapour-air mixture.

### 3. Composition/information on ingredients

Chemical characterization ( substance )  
acetone-based solvent

#### Hazardous components

| EC-No.    | CAS-No. | Chemical name                    | Quantity   | Classification     |
|-----------|---------|----------------------------------|------------|--------------------|
| 200-662-2 | 67-64-1 | acetone, propan-2-one, propanone | 50 - 100 % | F, Xi R11-36-66-67 |

Full text of each relevant R phrase can be found in heading 16.

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### 4. First aid measures

#### General information

Remove from exposure, lie down.

#### After inhalation

Move to fresh air in case of accidental inhalation of vapours. Consult a physician. If symptoms persist, call a physician.

#### After contact with skin

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Take off all contaminated clothing immediately. Wash off with soap and water. Grease skin after contact.

#### After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.

#### After ingestion

Do not induce vomiting. Call a physician immediately.

#### Advice to doctor

In case of shortness of breath, give oxygen. Risk of product entering the lungs on vomiting after ingestion. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

## 5. Fire-fighting measures

#### Suitable extinguishing media

Suitable extinguishing media @N05.00114370

#### Extinguishing media which must not be used for safety reasons

high volume water jet

#### Special exposure hazards arriving from substance or preparation itself, combustion products, resulting gases

In use, may form flammable/explosive vapour-air mixture. Heating can release hazardous gases.

#### Additional information

Use water spray to cool unopened containers.

## 6. Accidental release measures

#### Personal precautions

Remove all sources of ignition. When using do not smoke.

#### Environmental precautions

Do not let product enter drains.

#### Methods for cleaning up/taking up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Dispose of as special waste in compliance with local and national regulations

## 7. Handling and storage

### Handling

#### Advice on safe handling

Use only in well-ventilated areas. Keep container tightly closed. Keep away from heat.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. In use, may form flammable/explosive vapour-air mixture. Cool containers / tanks with water spray.

### Storage

#### Requirements for storage rooms and vessels

Keep containers tightly closed in a cool, well-ventilated place.

#### Advice on storage compatibility

Keep away from food, drink and animal feedingstuffs.

#### Further information on storage conditions

Keep away from heat.

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Storageclass (VCI) :

3A

#### 8. Exposure controls/personal protection

##### Exposure limit values

##### Exposure limits (EH40)

| CAS No. | Substance | ml/m <sup>3</sup> | mg/m <sup>3</sup> | F/ml | Category      | Origin |
|---------|-----------|-------------------|-------------------|------|---------------|--------|
| 67-64-1 | Acetone   | 500               | 1210              |      | TWA (8 h)     | WEL    |
|         |           | 1500              | 3620              |      | STEL (15 min) | WEL    |

##### BAT values (TRGS 903)

| CAS No. | Substance | Value   | Parameter | Test material | Sampling time |
|---------|-----------|---------|-----------|---------------|---------------|
| 67-64-1 | Aceton    | 80 mg/l | Aceton    | U             | b             |

##### Exposure controls

##### Protective and hygiene measures

Avoid contact with the skin and the eyes. When using do not eat or drink. When using do not smoke.  
Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs.

##### Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment. (gas filter type A2 )

##### Hand protection

solvent-resistant gloves:  
butyl-rubber,  
Break through time : >= 4 h  
Test suitability of gloves before use.

##### Eye protection

safety glasses

#### 9. Physical and chemical properties

##### General information

Physical state : liquid  
Colour : colourless  
Odour : mild - characteristic

##### Important health, safety and environmental information

|                                      |                         |             |
|--------------------------------------|-------------------------|-------------|
| pH-Value :                           | neutral                 | Test method |
| <b>Changes in the physical state</b> |                         |             |
| Melting point :                      | -94,7 °C                |             |
| Boiling point :                      | 55-57 °C                | DIN 53 171  |
| Flash point :                        | -18 °C                  | DIN 51 755  |
| Lower explosion limits :             | 2,1 vol. %              |             |
| Upper explosion limits :             | 13 vol. %               |             |
| Vapour pressure :                    | 247 hPa                 | DIN 51 754  |
| (at 20 °C)                           |                         |             |
| Vapour pressure :                    | 812 hPa                 |             |
| (at 50 °C)                           |                         |             |
| Density (at 20 °C) :                 | 0.791 g/cm <sup>3</sup> | DIN 51 757  |
| Water solubility :                   | completely miscible     |             |

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Partition coefficient : nlog Pow: 0,2

Viscosity / dynamic : 0,33 mPa·s DIN 53 015  
(at 20 °C)

Vapour density : 2

#### Solvent content

100 %

#### Other information

Ignition temperature : 540 °C DIN 51 794

### 10. Stability and reactivity

#### Conditions to avoid

Exposure to sunlight. Exposure to air. Heat, flames and sparks.

#### Materials to avoid

halogenated compounds oxidizing agents alkali metals

#### Hazardous decomposition products

Formation of chlorine acetone possible when mixed with chlorinated hydrocarbons and exposed to light. Very long storage produces small amounts of peroxide, which can concentrate in the distillation apparatus.

### 11. Toxicological information

#### Acute toxicity

Inhalation of vapours in high concentration can cause narcotic effects and metabolic acidosis.

#### Specific effects in experiment on an animal

LD50/oral/rat = >5800 mg/kg

LD50/dermal/rabbit = >20.000 mg/kg

LC50/inhalation/8h/rat = nicht bestimmt

#### Corrosive and irritant effects

Inhalation of vapours may cause irritation of the respiratory system in very susceptible persons. May cause skin and eye irritation in susceptible persons.

#### Sensitising effects

Did not cause sensitization on laboratory animals.

#### Severe effects after repeated or prolonged exposure

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effect, such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous

#### Carcinogenic/mutagenic/toxic effects for reproduction

No data is available on the product itself.

#### Empirical data on effects on humans

Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Chronic intensive skin contact may cause dermatitis. Chronic inhalation causes tiredness, headache and rhinitis.

### 12. Ecological information

#### Ecotoxicity

Toxicity to fish:

LC50/96h/rainbow trout = 6500 mg/l

LC50/48h/golden orfe = 7500 mg/l

LC50/48h/daphnia = 12.600 mg/l

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#### Mobility

No data is available on the product itself.

#### Persistence and degradability

Biochemical oxygen demand within 5 days (BOD5) = 50 - 84 % des theoretic oxygen demand  
Chemical Oxygen Demand (COD) 0,04 g Sauerstoff / g Substanz

#### Bioaccumulative potential

Does not bioaccumulate.

#### Further information

Do not let product enter drains.

### 13. Disposal considerations

#### Advice on disposal

Dispose of as special waste in compliance with local and national regulations

#### Waste disposal number of waste from residues/unused products

070704 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fine chemicals and chemical products not otherwise specified; other organic solvents, washing liquids and mother liquors  
Classified as hazardous waste.

#### Waste disposal number of used product

070704 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fine chemicals and chemical products not otherwise specified; other organic solvents, washing liquids and mother liquors  
Classified as hazardous waste.

#### Contaminated packaging

Offer rinsed packaging material to local recycling facilities. Recycling of packaging materials (dual system).

### 14. Transport information

#### Land transport (ADR/RID)

UN number : 1090  
ADR/RID class : 3  
Classification code : F1  
Warning plate  
Hazard-no. : 33  
Hazard label : 3  
ADR/RID packing group : II  
Limited quantity : LQ4 3 Liter

#### Description of the goods

ACETON

#### Remarks (land transport)

Tunnelbeschränkungscode: 2 (D1E)

#### Inland waterways transport

UN number : 1090  
ADNR class : 3  
Classification code : F1  
Hazard label : 3  
Packing group : II  
Limited quantity : 1 Lliter

#### Description of the goods

acetone, propan-2-one, propanone

#### Marine transport

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UN number : 1090  
IMDG code : 3.1  
Marine pollutant : --  
Hazard label : 3  
IMDG packing group : II  
EmS : F-E, S-D  
Limited quantity : 1 Liter

#### Description of the goods

acetone, propan-2-one, propanone

#### Remarks (marine transport)

Staukategorie E

#### Air transport

UN/ID number : 1090  
ICAO/IATA-DGR : 3  
Hazard label : 3  
ICAO packing group : II

#### Description of the goods

acetone, propan-2-one, propanone

## 15. Regulatory information

### Labelling

Danger symbols :

F - Highly flammable; Xi - Irritant



F - Highly flammable

Xi - Irritant

### **R phrases**

11 Highly flammable.  
36 Irritating to eyes.  
66 Repeated exposure may cause skin dryness or cracking.  
67 Vapours may cause drowsiness and dizziness.

### **S phrases**

02 Keep out of the reach of children.  
09 Keep container in a well-ventilated place.  
16 Keep away from sources of ignition - No smoking.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

### **Additional advice on labelling**

According to (National equivalent of EC-Dir. 67/548), as amended, the product is labelled as follows:  
The product is classified and labelled in accordance with Directive 1999/45/EC.

### EU regulatory information

1999/13/EC (VOC) : 100 % (791 g/l)

### National regulatory information

Water contaminating class : 1 - slightly water contaminating

### **Additional information**

Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.

## 16. Other information

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#### Full text of R-phrases referred to under sections 2 and 3

- 11 Highly flammable.
- 36 Irritating to eyes.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

#### Other data

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.