

**Safety Data Sheet**

according to Regulation (EU) No. 1907/2006

Renia - R+L Cleaner

Print date: 11.10.2009

Product code: 520

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1. Identification of the substance/preparation and of the company/undertaking**Identification of the substance or preparation**

Renia - R+L Cleaner

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)221-630799-0	Telefax: +49-(0)221-630799-50
e-mail:	info@renia.com	
Contact person:	Herr Dr. Julian Grimme	Telephone: 17
Internet:	www.renia.com	
Responsible Department:	F & E, Labor	
Emergency telephone:	+49-(0)221-63079924	

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.

GHS: Hazard categories:

Flammable liquid: Flam. Liq. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Highly flammable liquid and vapour.

Causes serious eye irritation.

May cause drowsiness or 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

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Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity
		Classification	
		GHS classification	
200-662-2	67-64-1	acetone; propan-2-one; propanone	50 - 100 %
		F, Xi R11-36-66-67	
		Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336	

Full text of R- and H-phrases: see section 16.

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4. First aid measures**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

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**

carbon dioxide (CO₂) dry chemical foam water spray

Extinguishing media which must not be used for safety reasons

high volume water jet

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

In the event of fire and/or explosion do not breathe fumes. In the event of fire dangerous gases may be formed.

Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

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. Ensure adequate ventilation.

Environmental precautions

Do not let product enter drains.

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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. Use only in area provided with appropriate exhaust ventilation.
Provide sufficient air exchange and/or exhaust in work rooms.

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.

Storage

Requirements for storage rooms and vessels

Keep containers tightly closed in a cool, well-ventilated place. Keep at temperatures between 5 and 40°C.

Advice on storage compatibility

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

Keep away from heat. Protect against freezing. Keep container tightly closed in a dry and well-ventilated place. Keep away from direct sunlight.

Storageclass (VCI): 3

8. Exposure controls/personal protection

Exposure limit values

Exposure limits (EH40)

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

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: nitrile rubber,
butyl-rubber, fluoroc rubber
Test suitability of gloves before use.



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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

	Test method
pH-Value:	neutral
Changes in the physical state	
Melting point:	-94,7 °C
Boiling point:	55-57 °C DIN 53171
Flash point:	-18 °C DIN 51755
Lower explosion limits:	2,1 vol. %
Upper explosion limits:	13 vol. %
Vapour pressure: (at 20 °C)	247 hPa
Vapour pressure: (at 50 °C)	812 hPa
Density:	0.791 g/cm ³
Water solubility:	completely miscible
Partition coefficient:	nlog Pow: 0,2
Viscosity / dynamic: (at 20 °C)	0,33 mPa·s
Vapour density:	2
Solvent content	
100 %	

Other information

Ignition temperature: 540 °C

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.

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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

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

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

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.

13. Disposal considerations**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.

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



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ADR/RID packing group: II
Limited quantity: LQ4
Tunnel restriction code: D/E

Description of the goods
ACETON

Other applicable information (land transport)
: 2
E2

Inland waterways transport

UN number: 1090
ADNR class: 3
Classification code: F1
Hazard label: 3



Packing group: II
Limited quantity: LQ4

Description of the goods
ACETON

Other applicable information (inland waterways transport)
E2

Marine transport

UN number: 1090
IMDG code: 3
Hazard label: 3



IMDG packing group: II
EmS: F-E, S-D
Limited quantity: 1 L

Description of the goods
ACETON

Other applicable information (marine transport)
Staukategorie E
: -
E2

Air transport

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

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ICAO packing group:	II
Limited quantity Passenger:	1 L
IATA-packing instructions - Passenger:	305
IATA-max. quantity - Passenger:	5 L
IATA-packing instructions - Cargo:	307
IATA-max. quantity - Cargo:	60 L

Description of the goods

ACETON

Other applicable information (air transport)E2
60 L

15. Regulatory information

Labelling

Danger symbols: F - Highly flammable; Xi - Irritant



F - Highly flammable

Xi - Irritant

Hazardous component(s) to be indicated on label

acetone; propan-2-one; propanone

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.
- 33 Take precautionary measures against static discharges.

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. The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

GHS labelling

Signal word: Danger

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Pictograms:

flame; exclamation mark

**Hazard statements**

- H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Precautionary statements

- P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash ... thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P370+P378 In case of fire: Use sand, dry chemical or alcohol-resistant foam for extinction.
P235 Keep cool.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container to

EU regulatory information

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

Additional information

Observe employment restrictions under the law for the protection of young people at work (94/33/EC).
Observe employment restrictions under the Maternity Protection Directive (EC 92/85/EEC) for expectant or nursing mothers.

National regulatory information

Water contaminating class (D):

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.

Full text of H-Statements referred to under sections 2 and 3

- H225 Highly flammable liquid and vapour.
- H319 Causes serious eye irritation.
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Further Information

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