

**Safety Data Sheet**

according to Regulation (EU) No. 1907/2006

340.000 RENIA - Renol =AST= - antistatischer Spezialkleber

Print date: 29.05.2010

Product code: 340

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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

adhesives

Roller application or brushing of adhesive and other coating.

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 (Mixture)**

polyurethane-prepolymers with antistatic ingredients and stabilizers in a mixture of organic solvents



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Hazardous components

EC-No.	Chemical name	Quantity
CAS-No.	Classification	
REACH-No.	GHS classification	
200-662-2	acetone; propan-2-one; propanone	30 - 50 %
67-64-1	F, Xi R11-36-66-67	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336	
205-500-4	ethyl acetate	30 - 50 %
141-78-6	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.

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
141-78-6	Ethyl acetate	200	-		TWA (8 h)	WEL
		400	-		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



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Test suitability of gloves before use.

Eye protection

safety glasses

9. Physical and chemical properties

General information

Physical state: liquid
Colour: black
Odour: ester-like, mild

Important health, safety and environmental information

	Test method
pH-Value:	not applicable
Changes in the physical state	
Melting point:	-4 - +8 °C
Boiling point:	50 - 80 °C DIN 53 171
Flash point:	-16 °C DIN 51 755
Lower explosion limits:	0,6 vol. %
Upper explosion limits:	13 vol. %
Ignition temperature:	260 °C DIN 51 794
Vapour pressure: (at 20 °C)	120 hPa DIN EN 12
Density (at 20 °C):	0.810 g/cm ³ DIN 51 757
Water solubility:	insoluble
Viscosity / dynamic: (at 20 °C)	2000 mPa·s DIN 53018
Solvent content:	78 %

Other information

10. Stability and reactivity

Conditions to avoid

Thermal decomposition can take place above 200°C. No decomposition if used as directed.

Materials to avoid

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition productsHeating can release hazardous gases. Carbon oxides In the event of fire the following can be released:
carbon dioxide (CO₂) Carbon monoxide

11. Toxicological information

Acute toxicity

Health injuries are not known or expected under normal use.

Specific effects in experiment on an animal

no data available No data is available on the product itself.

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.



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Sensitising effects

No data is available on the product itself.

Severe effects after repeated or prolonged exposure

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

Carcinogenic/mutagenic/toxic effects for reproduction

No data is available on the product itself.

12. Ecological information

Ecotoxicity

The product is insoluble and floats on water.

Mobility

No data is available on the product itself.

Persistence and degradability

Taking into consideration the properties of several components, the product is estimated not to be readily biodegradable according to OECD classification.

Bioaccumulative potential

No data is available on the product itself.

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

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other dangerous substances
Classified as hazardous waste.

Waste disposal number of used product

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other dangerous substances
Classified as hazardous waste.

Waste disposal number of contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

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: 1133
ADR/RID class: 3

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Classification code: F1

Warning plate

Hazard-no.: 33

Hazard label: 3



ADR/RID packing group: III

Limited quantity: LQ7

Tunnel restriction code: D/E

Description of the goods

Adhesives

Other applicable information (land transport)

: 640H

: 3

Hazardous Material:: (Acetone)

E1

Inland waterways transport

UN number: 1133

ADNR class: 3

Classification code: F1

Hazard label: 3



Packing group: III

Limited quantity: LQ7

Description of the goods

Adhesives

Other applicable information (inland waterways transport)

: 640H

E1

Marine transport

UN number: 1133

IMDG code: 3

Marine pollutant: •

Hazard label: 3



IMDG packing group: III

EmS: F-E, S-D

Limited quantity: 5 L

Description of the goods

Adhesives

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Other applicable information (marine transport)

Staukategorie A
: 223, 944, 955
Category: A
E1

Air transport

UN/ID number: 1133
ICAO/IATA-DGR: 3
Hazard label: 3



ICAO packing group: III
Limited quantity Passenger: 10 L
IATA-packing instructions - Passenger: 309
IATA-max. quantity - Passenger: 60 L
IATA-packing instructions - Cargo: 310
IATA-max. quantity - Cargo: 220 L

Description of the goods

Adhesives

Other applicable information (air transport)

: Y309
E3
220 L
Special provisions: A3

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

09 Keep container in a well-ventilated place.
16 Keep away from sources of ignition - No smoking.
23 Do not breathe vapour .
29 Do not empty into drains.
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

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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

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

- | | |
|----------------|--|
| 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 |

Special labelling for certain preparations

In use may form flammable/explosive vapour-air mixture.
Repeated exposure may cause skin dryness or cracking.

EU regulatory information

1999/13/EC (VOC): 78 % (631,8 g/l)

Additional information

Observe employment restrictions under the law for the protection of young people at work (94/33/EC).



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Observe employment restrictions under the Maternity Protection Directive (EC 92/85/EEC) for expectant or nursing mothers.

National regulatory information

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

16. Other information

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.
- H336 May cause drowsiness or dizziness.

Further Information

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.

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