



Safety Data Sheet

according to Regulation (EU) No. 1907/2006

340.000 RENIA - Renol =AST= - antistatischer Spezialkleber

Print date: 11.10.2009

Product code: 340

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

Identification of the substance or preparation

340.000 RENIA - Renol =AST= - antistatischer Spezialkleber

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

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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. 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)



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Hand protection

solvent-resistant gloves: nitrile rubber,
butyl-rubber, fluoroc rubber
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

pH-Value: not applicable Test method

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. %
Vapour pressure: 120 hPa DIN EN 12
(at 20 °C)
0.810 g/cm³ DIN 51 757
Water solubility: insoluble
Viscosity / dynamic: 2000 mPa·s DIN 53018
(at 20 °C)

Solvent content

78 %

Other information

Ignition temperature: 260 °C DIN 51 794

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 products

Heating 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.



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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.

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).

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14. Transport information**Land transport (ADR/RID)**

UN number: 1133
ADR/RID class: 3
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

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IMDG packing group: III
EmS: F-E, S-D
Limited quantity: 5 L

Description of the goods

Adhesives

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.

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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 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.



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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).
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

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