

**Safety Data Sheet**

according to Regulation (EU) No. 1907/2006

610.000 RENIA - Edelkitt - Lederkleber

Print date: 30.05.2010

Product code: 610

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

Abbreviation: Edelkitt

Identification of the substance or preparation

610.000 RENIA - Edelkitt - Lederkleber

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)**

adhesive based on nitrocellulose (nitrogenousity < 12,6 %) and synthetic resins 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 | 40 - 50 % |
| 67-64-1 | F, Xi R11-36-66-67 Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 | |
| 201-185-2 | methyl acetate | 30 - 40 % |
| 79-20-9 | F, Xi R11-36-66-67 Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 | |
| 200-661-7 | propan-2-ol; isopropyl alcohol; isopropanol | 2 - 5 % |
| 67-63-0 | F, Xi R11-36-67 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

Suitable extinguishing media carbon dioxide (CO₂) dry chemical foam

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

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.

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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. 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.

Further information on storage conditions

Keep away from heat.

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 |
| 79-20-9 | Methyl acetate | 200 | 616 | | TWA (8 h) | WEL |
| | | 250 | 770 | | STEL (15 min) | WEL |
| 67-63-0 | Propan-2-ol | 400 | 999 | | TWA (8 h) | WEL |
| | | 500 | 1250 | | 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. Do not inhale aerosol.

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: light yellow clear
Odour: ester-like mild

Important health, safety and environmental information

| | Test method |
|--------------------------------------|-------------------------|
| pH-Value: | not applicable |
| Changes in the physical state | |
| Melting point: | -4 - +5 °C |
| Boiling point: | 50-110 °C DIN 53171 |
| Flash point: | -16 °C DIN 51755 |
| Lower explosion limits: | 2,5 vol. % |
| Upper explosion limits: | 13 vol. % |
| Ignition temperature: | 540 °C |
| Vapour pressure: (at 20 °C) | 120 hPa |
| Density (at 20 °C): | 0.810 g/cm ³ |
| Water solubility: | insoluble |
| Viscosity / dynamic: | 900 mPa·s |
| Solvent content: | 76 % |

Other information

10. Stability and reactivity

Conditions to avoid

No decomposition if used as directed. Not to be distilled, danger of explosion.

Materials to avoid

No decomposition if used as directed.

Hazardous decomposition products

In the event of fire toxic brown nitrous vapours may be formed.

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

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.



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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

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 |

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ADR/RID packing group: III
Limited quantity: LQ7
Tunnel restriction code: D/E

Description of the goods

Adhesives

Other applicable information (land transport)

E1
: 3
Special provisions: 640H

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)

Special provisions: 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 Liter

Description of the goods

Adhesives

Other applicable information (marine transport)

Special provisions: 223, 944, 955
Category: A
E1

Air transport

UN/ID number: 1133

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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)

E3

: Y309

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 damp vapour .
- 29 Do not empty into drains.
- 33 Take precautionary measures against static discharges.

GHS labelling

Signal word:

Danger

Pictograms:

flame; exclamation mark



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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): 78,2 % (633,42 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**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.

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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.)