



Safety Data Sheet

according to Regulation (EU) No. 1907/2006

880.000 Renia - ProtoColle flexibel Superglue

Print date: 11.10.2009

Product code: 880

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

Identification of the substance or preparation

880.000 Renia - ProtoColle flexibel Superglue

Use of the substance/preparation

adhesives

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 : Irritant

R-phrases :

Irritating to eyes, respiratory system and skin.

GHS:

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

Explication of special hazards for human health and environment

Cyanacrylate! Danger! Skin and eyelids will stick together in seconds. Keep out of the reach of children.

3. Composition/information on ingredients

Chemical characterization (substance)

adhesive based on cyanacrylic acid-ethyl ester

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Hazardous components

| EC-No. | CAS-No. | Chemical name | Quantity |
|-----------|-----------|--|------------|
| | | Classification | |
| | | GHS classification | |
| 230-391-5 | 7085-85-0 | Ethyl-2-cyanacrylat | 80 - 100 % |
| | | Xi R36/37/38 | |
| | | Eye Irrit. 2, STOT SE 3, Skin Irrit. 2; H319 H335 H315 | |

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.

After contact with skin

Take off all contaminated clothing immediately. Rinse with water. Clean with soap and pumice.

After contact with eyes

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

After ingestion

Do not induce vomiting. Call a physician immediately.

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

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.

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

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

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 |
|-----------|---------------------|-------------------|-------------------|------|---------------|--------|
| 7085-85-0 | Ethyl cyanoacrylate | - | - | | TWA (8 h) | WEL |
| | | 0.3 | 1.5 | | STEL (15 min) | WEL |

Exposure controls



Protective and hygiene measures

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.

Eye protection

safety glasses

9. Physical and chemical properties

General information

Physical state: liquid
 Colour: colourless clear
 Odour: ester-like, stinging

Important health, safety and environmental information

| | | |
|--------------------------------------|---------------------|-------------|
| pH-Value: | 4,6 - 5,6 | Test method |
| Changes in the physical state | | |
| Melting point: | -30 °C | |
| Boiling point: | 2,7mbar: 54 - 56 °C | DIN 53 171 |
| Flash point: | 83 °C | DIN 51 755 |

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| | |
|------------------------------------|---|
| Lower explosion limits: | not applicable |
| Upper explosion limits: | not applicable |
| Vapour pressure: (at 20 °C) | < 1 hPa DIN EN 12 |
| Water solubility: | 1.04 g/cm ³ DIN 51 757 insoluble, polymerisiert |
| Viscosity / dynamic: (at 20 °C) | 200 - 500 mPa·s DIN 53018 |
| Solvent content 0 % | |

Other information

Ignition temperature: 155 °C DIN 51 794

10. Stability and reactivity**Conditions to avoid**

Thermal decomposition can take place above 265°C.

Materials to avoid

bases, water

Hazardous decomposition products

No decomposition if used as directed.

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.

Sensitising effects

May cause sensitization of susceptible persons by inhalation of aerosol or dust.

Severe effects after repeated or prolonged exposure

No data is available on the product itself.

Carcinogenic/mutagenic/toxic effects for reproduction

No data is available on the product itself.

12. Ecological information**Ecotoxicity**Acute fish toxicity =
LC50/48h/golden orfe = 100 mg/l**Mobility**

No data is available on the product itself.

Persistence and degradability

Biological degradability 0 %.



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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

Contaminated packaging

Inhalt mit Wasser oder Alkali vorsichtig polymerisieren.

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

14. Transport information

Land transport (ADR/RID)**Description of the goods**

Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR

Inland waterways transport**Description of the goods**

Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR

Marine transport**Description of the goods**

Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR

Air transport**Description of the goods**

Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR

15. Regulatory information

Labelling

Danger symbols:

Xi - Irritant



Xi - Irritant

R phrases

36/37/38 Irritating to eyes, respiratory system and skin.

S phrases

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

24/25 Avoid contact with skin and eyes.

Special labelling for certain preparations

Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

Additional advice on labellingAccording 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.

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GHS labelling

Signal word:

Warning

Pictograms:

exclamation mark



Hazard statements

- | | |
|------|-----------------------------------|
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |

Precautionary statements

- | | |
|----------------|--|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children. |
| 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. |
| P302+P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P321 | Specific treatment (see ... on this label). |
| P332+P313 | If skin irritation occurs: Get medical advice/attention. |
| P362 | Take off contaminated clothing and wash before reuse. |
| 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. |
| 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

Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

EU regulatory information

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): - - not water contaminating

16. Other information

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

36/37/38 Irritating to eyes, respiratory system and skin.

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

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- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

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.