

Safety Data Sheet

according to Regulation (EU) No. 1907/2006

580.000 RENIA - Rehagol - Halogeniermittel

Print date : 14.08.2007

Product code : 580

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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 arriving 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.

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.

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8. Exposure controls/personal protection

Exposure limit values

Exposure limits (EH40)

| CAS No. | Substance | ml/m ³ | mg/m ³ | F/ml | Category | Origin |
|----------|---------------|-------------------|-------------------|------|---------------|--------|
| 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
Test suitability of gloves before use.

Eye protection

safety glasses

9. Physical and chemical properties

General information

Physical state : liquid
Colour : colourless
Odour : ester-like, slight chlorine

Important health, safety and environmental information

pH-Value : not applicable Test method

Changes in the physical state

Melting point : -35 °C
Boiling point : 40 - 80 °C DIN 53 171
Flash point : -3 °C DIN 51 755
Lower explosion limits : 2,1 vol. %
Upper explosion limits : 11,5 vol. %
Vapour pressure : 97 hPa DIN 51 754
(at 20 °C)
Density (at 20 °C) : 0.930 g/cm³ DIN 51 757
Water solubility : partly miscible, Decomposes in contact
with water.
Viscosity / dynamic : 0,35 mPa·s DIN 53 015
(at 20 °C)

Solvent content

98 %

Other information

Ignition temperature : 260 °C DIN 51 794

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10. Stability and reactivity

Conditions to avoid

Heating can release hazardous gases. Combustion produces caustic fumes.

Materials to avoid

metals, acids

Hazardous decomposition products

No decomposition if used as directed.

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

No data is available on the product itself.

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

No data is available on the product itself.

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

070703 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fine chemicals and chemical products not otherwise specified; organic halogenated solvents, washing liquids and mother liquors
Classified as hazardous waste.

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Waste disposal number of used product

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Classified as hazardous waste.

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 : 1993
ADR/RID class : 3
Classification code : F1
Warning plate
Hazard-no. : 33
Hazard label : 3
ADR/RID packing group : II
Limited quantity : LQ4 3 Liter

Description of the goods

ENTZÜNDBARER FLÜSSIGER STOFF, N.A.G. (Dampfdruck bei 50 °C höchstens 110 kPa)

Remarks (land transport)

Special Provision 640D

Inland waterways transport

UN number : 1993
ADNR class : 3
Classification code : F1
Hazard label : 3
Packing group : II
Limited quantity : 1 Liter

Description of the goods

1993 - Flammable liquid, n.o.s.

Marine transport

UN number : 1993
IMDG code : 3
Marine pollutant : --
Hazard label : 3
IMDG packing group : II
EmS : F-E, S-D
Limited quantity : 1 Liter

Description of the goods

1993 - Flammable liquid, n.o.s. (ethyl acetate)

Remarks (marine transport)

Staukategorie B

Air transport

UN/ID number : 1993
ICAO/IATA-DGR : 3
Hazard label : 3
ICAO packing group : II

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Description of the goods

1993 - Flammable liquid, n.o.s. (ethyl acetate)

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.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S phrases

- 09 Keep container in a well-ventilated place.
- 16 Keep away from sources of ignition - No smoking.
- 23 Do not breathe gas .
- 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.

EU regulatory information

1999/13/EC (VOC) : 98 % (911,4 g/l)

National regulatory information

Water contaminating class : 1 - slightly water contaminating

16. Other information

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

- 08 Contact with combustible material may cause fire.
- 11 Highly flammable.
- 22 Harmful if swallowed.
- 31 Contact with acids liberates toxic gas.
- 36 Irritating to eyes.
- 50 Very toxic to aquatic organisms.
- 53 May cause long-term adverse effects in the aquatic environment.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.
- 36/37 Irritating to eyes and respiratory system.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Other data

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.