

Safety Data Sheet

according to 2001/58/EC

RUDOL KD 4431

Print date : 13.12.2006

Product code : 4431

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1. Identification of the substance/preparation and of the company/undertaking**1.1 Identification of the substance or preparation**

RUDOL KD 4431

Use of the substance/preparation

Adhesive

1.2 Company/undertaking identification

Company name : RUDOL-FABRIK Hermann Hagemeyer

Street : Sürther Str. 172

Place : D-50321 Brühl

Post-office box : 17 04

D-50307 Brühl

Contact person : Klaus Markus

Telephone : 02232-94592-0

Telefax : 02232-945929

Inquiry office : Labor

Emergency telephone : 02232-945920

2. Composition/information on ingredients**Chemical characterization (preparation)**

Kautschukkleber

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
265-151-9	64742-49-0	Naphta, mit Wasserstoff behandelt leicht, <0,1 Benzol	50-60%	F, Xn, Xi, N R11-38-51-53-65-67
203-806-2	110-82-7	cyclohexane	10-15%	F, Xn, Xi, N R11-65-38-67-50-53
205-500-4	141-78-6	Ethylacetat	9-15 %	F, Xi R11-36-66-67

Full text of each relevant R phrase can be found in heading 16.

3. Hazards identification**Classification**

Symbols : Highly flammable, Irritant, Dangerous for the environment

R-phrases :

Highly flammable.

Vapours may cause drowsiness and dizziness.

Irritating to eyes and skin.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Explication of special hazards for human health and environment

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

4. First aid measures**After inhalation**

Move to fresh air in case of accidental inhalation of vapours. If symptoms persist, call a physician.

After contact with skin

Wash off immediately with soap and plenty of water.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

After ingestion

Do NOT induce vomiting. Consult a physician.

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5. Fire-fighting measures**Suitable extinguishing media**

Dry chemical Carbon dioxide (CO₂) Extinguishing media - large fires Water spray mist or foam. In the event of fire and/or explosion do not breathe fumes.

Extinguishing media which must not be used for safety reasons

Do not use a solid water stream as it may scatter and spread fire.

Special exposure hazards arriving from substance or preparation itself, combustion products, resulting gases

Using the product may be accompanied by the formation of explosive/highly inflammable vapour-air-mixtures. Use water spray to cool unopened containers.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. Accidental release measures**Personal precautions**

Keep people away from and upwind of spill/leak. Ensure adequate ventilation.

Environmental precautions

Do not flush into surface water or sanitary sewer system.

Methods for cleaning up/taking up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Additional information

Remove all sources of ignition.

7. Handling and storage**7.1 Handling****Advice on safe handling**

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

Advice on protection against fire and explosion

Keep away from heat and sources of ignition.

Further information on handling

Provide sufficient air exchange and/or exhaust in work rooms. Do not smoke.

7.2 Storage**Requirements for storage rooms and vessels**

Keep container tightly closed in a dry and well-ventilated place.

8. Exposure controls/personal protection**8.1 Exposure limit values****Exposure limits (EH40)**

CAS No.	Substance	ml/m ³	mg/m ³	F/ml	Category	Origin
110-82-7	Cyclohexane	100	350		TWA (8 h)	WEL
		300	1050		STEL (15 min)	WEL
141-78-6	Ethyl acetate	200	-		TWA (8 h)	WEL
		400	-		STEL (15 min)	WEL

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BAT values (TRGS 903)

CAS No.	Substance	Value	Parameter	Test material	Sampling time
110-82-7	Cyclohexan	170 mg/g	Gesamt-1,2-Cyclohexan diol	U	c,b

8.2 Exposure controls**Occupational exposure controls**

Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures

Avoid contact with the skin and the eyes. Remove and wash contaminated clothing before re-use.

Wash hands before breaks and at the end of workday.

Respiratory protection

Ensure adequate ventilation, especially in confined areas. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Eye protection

Tightly fitting safety goggles

9. Physical and chemical properties**9.1 General information**

Physical state : liquid
 Colour : light brown
 Odour : solvent

9.2 Important health, safety and environmental information

Test method

Changes in the physical state

Boiling point : 65 °C

Flash point : - 14 °C

Lower explosion limits : 1,4 vol. %

Upper explosion limits : 13,0 vol. %

Vapour pressure : 280 hPa
 (at 20 °C)

Density (at 20 °C) : 0,78 g/cm³

Water solubility : partly soluble
 (at 20 °C)

Solubility in other solvents : ester, ketone

Viscosity / dynamic : 3100 mPa·s
 (at 20 °C)

Solvent content

80%

9.3 Other information

Ignition temperature : >200 °C

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

Risk of decomposition.:

No decomposition if used as directed.

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Hazardous decomposition products

No dangerous reaction known under conditions of normal use.

Additional information

No decomposition if stored normally.

11. Toxicological information**Specific effects in experiment on an animal**

Eye/rabbit = Mild eye irritation

Sensitising effects

Sensitization: no sensitizing effect known.

12. Ecological information**Ecotoxicity**

Do not allow to escape into waters, wastewater or soil.

WGK: 1 slightly water endangering

Mobility

The product evaporates readily.

13. Disposal considerations**Advice on disposal**

Can be incinerated, when in compliance with local 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.

Contaminated packaging

Fully drained containers which are drop- and scrape-free can be treated as industrial waste, and can possibly be recycled.

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

ADR/RID class : 3
Warning plate
Hazard-no. : 33
UN number : 1133
Hazard label : 3
ADR/RID packing group : III

Description of the goods

adhesive

Remarks (land transport)

Sondervorschrift 640H

Inland waterways transport

ADN/ADNR class : 3
Category : F1
UN number : 1133

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Description of the goods

Klebstoffe

Remarks (inland waterways transport)

Sondervorschrift 640H

Marine transport

IMDG code :	3
UN number :	1133
Marine pollutant :	-
EmS :	F-E, S-D
IMDG packing group :	III
Hazard label :	3

Description of the goods

adhesive

Air transport

ICAO/IATA-DGR :	3
UN/ID number :	1133
Hazard label :	3
IATA-packing instructions - Passenger :	309
IATA-max. quantity - Passenger :	60 L
IATA-packing instructions - Cargo :	310
IATA-max. quantity - Cargo :	220 L
ICAO packing group :	III

Description of the goods

Adhesives

15. Regulatory information

15.1 Labelling

Indication of danger : F - Highly flammable; Xi - Irritant; N - Dangerous for the environment
 Labelling according to EC-guidelines : Labelling in accordance with the EEC directives:

R phrases

11	Highly flammable.
67	Vapours may cause drowsiness and dizziness.
36/38	Irritating to eyes and skin.
51/53	Toxic 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/Rauch/Dampf/Aerosol.
26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
33	Take precautionary measures against static discharges.
37	Wear suitable gloves.
57	Use appropriate containment to avoid environmental contamination.
60	This material and its container must be disposed of as hazardous waste.
61	Avoid release to the environment. Refer to special instructions / Safety data sheets.

15.2 National regulations

Water contaminating class :	1 - slightly water contaminating
1999/13/EC (VOC) :	79%

16. Other information

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List of relevant R phrases

- | | |
|-------|---|
| 11 | Highly flammable. |
| 36 | Irritating to eyes. |
| 38 | Irritating to skin. |
| 50 | Very toxic to aquatic organisms. |
| 51 | Toxic to aquatic organisms. |
| 53 | May cause long-term adverse effects in the aquatic environment. |
| 65 | Harmful: may cause lung damage if swallowed. |
| 66 | Repeated exposure may cause skin dryness or cracking. |
| 67 | Vapours may cause drowsiness and dizziness. |
| 36/38 | Irritating to eyes and skin. |
| 51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

Other data

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.