

Safety Data Sheet

according to Regulation (EC) No 1907/2006

RUDOLFIX 333

Print date: 19.05.2015

Product code: r-1110

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

RUDOLFIX 333

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Klebstoff

1.3. Details of the supplier of the safety data sheet

Company name:	RUDOL-FABRIK Hermann Hagemeyer	
Street:	Sürther Str. 172	
Place:	D-50321 Brühl	
Post-office box:	17 04	
	D-50307 Brühl	
Telephone:	02232-94592-0	Telefax: 02232-945929
Contact person:	Klaus Markus	
Responsible Department:	Labor	

1.4. Emergency telephone number:

02232-945920

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Directive 67/548/EEC or 1999/45/EC**

Indications of danger: F - Highly flammable, Xi - Irritant, N - Dangerous for the environment

R phrases:

Highly flammable.

Irritating to eyes and skin.

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

Repeated exposure may cause skin dryness or cracking.

Vapours may cause drowsiness and dizziness.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard Statements:

Highly flammable liquid and vapour.

Harmful if inhaled.

Causes serious eye irritation.

Causes skin irritation.

May cause drowsiness or dizziness.

Toxic to aquatic life with long lasting effects.

2.2. Label elements

Signal word:

Danger

Pictograms:

GHS02-GHS07-GHS09

**Hazard statements**

H225

Highly flammable liquid and vapour.

H332

Harmful if inhaled.

H319

Causes serious eye irritation.

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H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P264	Wash Hände thoroughly after handling.
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P235	Keep cool.
P370+P378	In case of fire: Use Sand, Löschpulver oder alkoholbeständigen Schaum to extinguish.
P337+P313	If eye irritation persists: Get medical advice/attention.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P312	Call a POISON CENTER/doctor if you feel unwell.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P271	Use only outdoors or in a well-ventilated area.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P243	Take precautionary measures against static discharge.
P242	Use only non-sparking tools.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P240	Ground/bond container and receiving equipment.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.

Special labelling of certain mixtures

EUH018	In use may form flammable/explosive vapour-air mixture.
EUH066	Repeated exposure may cause skin dryness or cracking. Restricted to professional users.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

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Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
203-806-2	cyclohexane	22-30%
110-82-7	F - Highly flammable, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R11-65-38-67-50-53	
601-017-00-1	Flam. Liq. 2, Asp. Tox. 1, Skin Irrit. 2, STOT SE 3, Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 1 (M-Factor = 1); H225 H304 H315 H336 H400 H410	
205-500-4	Ethylacetat	25 - < 30 %
141-78-6	F - Highly flammable, Xi - Irritant R11-36-66-67	
607-022-00-5	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066	
265-151-9	Naphta, mit Wasserstoff behandelt leicht, <0,1 Benzol	20-25%
64742-49-0	F - Highly flammable, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R11-38-51-53-65-67	
203-777-6	n-hexane	< 1,0 %
110-54-3	Repr. Cat. 3, F - Highly flammable, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R11-62-48/20-65-38-67-51-53	
601-037-00-0	Flam. Liq. 2, Repr. 2, Asp. Tox. 1, STOT RE 2, Skin Irrit. 2, STOT SE 3, Aquatic Chronic 2; H225 H361f *** H304 H373 ** H315 H336 H411	
215-222-5	zinc oxide	< 1,0 %
1314-13-2	N - Dangerous for the environment R50-53	
030-013-00-7	Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 1 (M-Factor = 1); H400 H410	

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures**4.1. Description of 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 while removing all contaminated clothes and shoes.

After contact with eyes

Wash off immediately with plenty of water for at least 15 minutes. Consult a physician.

After ingestion

Do NOT induce vomiting. Obtain medical attention.

4.3. Indication of any immediate medical attention and special treatment needed

In case of shortness of breath, give oxygen.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**Extinguishing media: CO₂, foam, dry powder; in cases of larger fires, water spray should be used. In the event of fire and/or explosion do not breathe fumes.

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Unsuitable extinguishing media

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

5.2. Special hazards arising from the substance or mixture

In the event of fire and/or explosion do not breathe fumes. Using the product may be accompanied by the formation of explosive/highly inflammable vapour-air-mixtures.

5.3. Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Additional information

Use a water spray to cool fully closed containers.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

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

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

Remove all sources of ignition.

SECTION 7: Handling and storage**7.1. Precautions for safe 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 heat and sources of ignition. Take precautionary measures against static discharges.

Do not smoke.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed in a dry and well-ventilated place. Protect from frost. Storage temperature: 10-30°C.

Further information on storage conditions

Keep away from direct sunlight.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m ³	fibres/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
110-54-3	n-Hexane	20	72		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

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8.2. Exposure controls**Appropriate engineering 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.

Eye/face protection

Tightly fitting safety goggles

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.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	light brown
Odour:	solvent

Test method

pH-Value:	not applicable
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Changes in the physical state

Initial boiling point and boiling range:	60 - 80 °C
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Flash point:	-18 °C
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Lower explosion limits:	2,1 vol. %
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Upper explosion limits:	13,8 vol. %
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Oxidizing properties

not applicable

Vapour pressure: (at 20 °C)	195 hPa
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Density (at 20 °C):	0,87 g/cm³
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Water solubility: (at 20 °C)	insoluble
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Solubility in other solvents

Ester, Ketone, Toluol

Viscosity / dynamic: (at 20 °C)	1900 mPa·s
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Solvent content:	74%
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SECTION 10: Stability and reactivity**10.1. Reactivity**

No decomposition if stored and applied as directed.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Vapours may form explosive mixture with air.

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10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials

Strong acids and oxidizing agents

Further information

No decomposition if stored normally.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity**

Health injuries are not known or expected under normal use.

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
1314-13-2	zinc oxide				
	oral	LD50	> 5000 mg/kg	Rat	IUCLID

Irritation and corrosivity

Skin irritation:

Eye irritation:

Sensitising effects

No data is available on the product itself.

Severe effects after repeated or prolonged exposure

Concentration above the admissible concentration at the workplace may cause dizziness, headache and inebriation.

Specific effects in experiment on an animal

No data is available on the product itself.

SECTION 12: Ecological information**12.1. Toxicity**

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

CAS No	Chemical name				
	Aquatic toxicity	Method	Dose	[h] [d]	Species
110-54-3	n-hexane				
	Acute fish toxicity	LC50	2,5 mg/l	96 h	Pimephales promelas
					Geiger et al. 1990

12.2. Persistence and degradability

:

12.3. Bioaccumulative potential

No data is available on the product itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
110-54-3	n-hexane	3,9

12.4. Mobility in soil

No data is available on the product itself.

SECTION 13: Disposal considerations

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13.1. Waste treatment methods

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.

Contaminated packaging

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

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 1133
14.2. UN proper shipping name: Klebstoffe
14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3
 Classification code: F1
 Special Provisions: 640H
 Limited quantity: LQ7
 Transport category: 3
 Hazard No: 33
 Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number: UN 1133
14.2. UN proper shipping name: Klebstoffe
14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3
 Classification code: F1
 Special Provisions: 640H
 Limited quantity: 5 L

Marine transport (IMDG)

14.1. UN number: UN 1133
14.2. UN proper shipping name: Adhesives (Cyclohexane)
14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3
 Marine pollutant: no
 Special Provisions: 223, 955
 Limited quantity: 5 L
 EmS: F-E, S-D

Other applicable information (marine transport)

Staukategorie A

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Air transport (ICAO)

14.1. UN number:	UN 1133
14.2. UN proper shipping name:	Adhesives
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3
Special Provisions:	A3
Limited quantity Passenger:	10 L
IATA-packing instructions - Passenger:	355
IATA-max. quantity - Passenger:	60 L
IATA-packing instructions - Cargo:	366
IATA-max. quantity - Cargo:	220 L

Other applicable information (air transport)

E3
Y309
Special Provisions: A3

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

2004/42/EC (VOC): 100 % (850 g/l)

National regulatory information

Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.

Water contaminating class (D): 2 - water contaminating

SECTION 16: Other information**Relevant R-phrases (Number and full text)**

11	Highly flammable.
36	Irritating to eyes.
38	Irritating to skin.
48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
50	Very toxic to aquatic organisms.
51	Toxic to aquatic organisms.
53	May cause long-term adverse effects in the aquatic environment.
62	Possible risk of impaired fertility.
65	Harmful: may cause lung damage if swallowed.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.

Relevant H- and EUH-phrases (Number and full text)

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.

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H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
EUH066	Repeated exposure may cause skin dryness or cracking.

Further Information

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.

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