

01. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Identification of the article

Product name

Rhenoplast HR 1

Manufacturer, importer, supplier

Supplier

Rhenocoll-Werk

Postcode and post office

Erlenhöhe 20

City

66871 Konken bei Kusel

Telephone

0049 6384 9938110

Telefax

0049 6384 9938112

Emergency telephone number

0049 6384 9938110

02. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Toluene

CAS-No. 108-88-3

EINECS-No. 203-625-9

Concentration \geq 50 %Classification Repr3, R63
Xn, R48/20-R65
Xi, R38
F, R11
R67

Ethyl acetate

CAS-No. 141-78-6

EINECS-No. 205-500-4

Concentration \geq 1 < 10 %Classification Xi, R36
F, R11
R66
R67

03. POSSIBLE DANGERS

Hazard symbol

F Highly flammable

Xn Harmful to health

R-phrases

11 Highly flammable

38 Irritating to skin

48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

63 Possible risk of harm to the unborn child

67 Vapors may cause drowsiness and dizziness

04. FIRST AID MEASURES

General advice

Take off immediately all contaminated clothing. Take the person concerned to get some fresh air and do not leave unattended. Self-protection for first aider. Symptoms of poisoning may only occur after several hours – person concerned must be supervised medically for at least 48h.

After Inhalation

Fresh air. Call in physician if feeling discomfort

After Skin contact

Wash off with plenty of water and soap.

After Eye contact

Rinse with plenty of water and call in ophthalmologist.

Ingestion

Do not induce vomiting! – Danger of aspiration! Rinse mouth and drink plenty of water.

Hints for doctors / danger

If swallowed and vomited, aspiration into lungs may occur. This can lead to chemical pneumonia or asphyxia.

05. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide, dry powder, water spray jet, alcohol resistant foam

Not suitable extinguishing media

Full water jet

Special risks caused by the material or product itself, its combustion products or emerging gases:

Carbon dioxide (CO₂); carbon monoxide (CO); in case of fire, formation of toxic and ignitable gases.

Special protective equipment for fire fighting

Wear breathing apparatus which does not depend on air circulation

Other Information:

Cool containers at risk with water spray jet. Reminders from fire and contaminated water which was used to extinguish the fire must be disposed according to the local official regulations.

06. ACCIDENTAL RELEASE MEASURES

Personal precautions

Provide sufficient ventilation. Avoid contact with skin, eyes and clothing. Keep away ignition sources. Use breathing apparatus during the impact of vapors/dust/aerosols.

Environmental precautions

Spray gases/vapors/mist with water spray jet. Let not enter into ground. Inform the appropriate authority if gas leaks or if product gets into waters, ground or canalization. Do not empty into canalization/surface water/groundwater.

Procedures for cleaning/absorption

Take up with liquid – absorbent material (e.g. sand, diatomite, universal absorbent). Recycle or dispose in appropriate containers according to regulations.

07. HANDLING AND STORAGE

Handling

Hints for a safe use

Provide sufficient ventilation; if necessary install extraction at work. Also provide sufficient ventilation in the bottom area (vapors are heavier than air). Avoid the creation of aerosol. Open and handle containers carefully.

Hints to protect from fire and explosion

Keep away from ignition source and heat – do not smoke. Avoid electrostatic charge.

Vapors together with air may be an explosive mixture. An emergency cooling is to be installed for the case of fire. Flammable mixture might build up in the emptied container.

Danger of explosion if liquid gets into the canalization. Use explosion protected machines/fittings and non-sparking tools.

Product name: **Rhenoplast HR 1 (Article no.: A7800)**

Date 10. Jan 08

3

Fire class / Temperature class/ lighting group/ dust explosion class

Temperature class: T1

Explosion group: IIA

Storage

Tightly closed in a well ventilated place. Store container dry, at a cool, well ventilated room.

VCI storage class

VCI-storage class 3A Flammable liquid substance

08. EXPOSITION LIMITATION and PERSONAL PROTECTIVE EQUIPMENT

General protection- and hygiene measure

Keep separated from food and feeding stuff. Take off immediately all contaminated clothing. Do not carry cloths soaked with the product in pockets. When using do not eat, drink, smoke or sniff. Do not breathe gas/fumes/vapour/spray. Pregnant women should not breathe in the product and should avoid skin contact. Wash hands before breaks and in the end of the working day. Preventing skin protection by the use of skin protection lotion.

Personal protective equipment

Breathing protection

Breathing protection if aerosol or mist builds up.

Hand protection

Cloves (solvent resistant)

Suitable material: Viton

Material strength: $\geq 0,4\text{mm}$

Penetration time: $\geq 8\text{h}$

Eye protection

Wear well-sealing protection glasses

Body protection

Wear solvent-resistant protection clothing

09. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	liquid
Color	colorless
Smell	aromatic

Security relevant data

Flash point

Value	6°C
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Boiling point

Value	110-111°C
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Melting point

Value	-95°C
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Ignition point

Value	535°C
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Explosive limit

Lowest explosive limit	1,2 – 7% (V)
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Vapor pressure

Value	29 hPa
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Density

Value	0,87 g/cm ³
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Viscosity

Kinematic

Value	0,63 mm ² /s
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Product name: **Rhenoplast HR 1 (Article no.: A7800)**

Date 10. Jan 08

4

Temperature 25 °C

Water solubility

Value 0,47 g/l

log Pow

log Pow 2,65

10. STABILITY AND REACTIVITY

Conditions to be avoided

Heat. Flammable mixtures may occur in air if the product is heated over its flash point and/or during spraying or nebulizing.

Substances to be avoided

Reactions with acids and strong oxidants.

Hazardous decomposition products

Carbon monoxide, carbon dioxide

11. TOXICOLOGICAL INFORMATION

Acute toxicity / further data

Acute oral toxicity

Species: Rat
LD50: 5000 mg/kg

Acute dermal toxicity

Species: Rabbit
LD50: 12124 mg/kg

Acute inhalation toxicity

Species: Rat
LC50: 31 mg/kg
Exposure duration: 4 h

Irritation / Cauterization

Skin irritation

Irritating to skin and mucous membranes

Eye irritation

Irritating to eyes

Effect after repeated or prolonged exposure (subacute, subchronic, chronic)

Practical experiences

Inhaling of highly concentrated solvent vapors may lead to sickness, headaches, drowsiness and giddiness.

12. ECOLOGICAL INFORMATION

Fish toxicity

LC 50: 1-10 mg/l
Exposure duration: 96h

Daphnia toxicity

Species: Daphnia magna
EC50: 10-100 mg/l
Exposure duration: 96h

Behaviour in environment compartments

The distribution coefficient n-otanol/water (log pOW) enables a fortification in organisms.

General information / Ecology

Do not empty into grounds, bodies of water or drains

13. DISPOSAL RECOMMENDATIONS

14. TRANSPORT INFORMATION

Land transport ADR/RID

UN-number: 1263
Class: 3
Packing group: II
Hazard label: 3
Merchandise description:

Sea shipment IMDG/GGVSee

UN-number: 1263
Class: 3
Packing group: II
Merchandise description: Paint related material

Air shipment ICAO/IATA

UN-number: 1263
Class: 3
Packing group: II
Merchandise description: Paint related material

15. REGULATIONS

Libeling according to EC Directives

The product is labeled according to EC-directives

The product is classified and labeled according to national laws

Hazard symbol

F: Highly flammable

Xn: Harmful to health

Component which causes danger (for labeling)

Contains toluene

R-phrases

- 11 Highly flammable
- 38 Irritating to skin
- 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- 63 Possible risk of harm to the unborn child
- 67 Vapors may cause drowsiness and dizziness

S- phrases

- 53 Avoid exposure – obtain special instructions before use
- 13 Keep away from food, drink and animal feedingstuffs
- 16 Keep away from sources of ignition – no smoking.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 33 Take precautionary measures against static discharges
- 36/37 Wear suitable protective clothing and gloves
- 51 Use only in well-ventilated areas

Special labeling of special preparation

“Only for professional users”

16. OTHER INFORMATION

R-phrases for the ingredients listed under point 2.

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.
63	Possible risk of harm to the unborn child
65	Harmful: May cause lung damage if swallowed
66	Repeated exposure may cause skin dryness or cracking.
67	Vapors may cause drowsiness and dizziness

The information is based on the present state of our knowledge and experiences. The safety data sheet describes our products regarding the safety requirements. The information is not intended to be a guarantee of the products' properties.