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1 Identification of the substance/mixture and of the company/undertaking			
· Product identifier			
· Trade name: SILIKAL Porfil RE 40 Comp. B			
<ul> <li>Article number: RE 40-B</li> <li>Relevant identified uses of the substance or mixture and uses advised against</li> <li>Application of the substance / the preparation: Epoxy curing agent Hardening agent/ Curing agent</li> </ul>			
<ul> <li>Details of the supplier of the safety data sheet</li> <li>Manufacturer/Supplier: Silikal GmbH Ostring 23</li> <li>D-63533 Mainhausen</li> <li>Tel.: +49-6182/9235-0</li> <li>Fax.: +49-6182/9235-40</li> <li>e-mail: mail@silikal.de</li> </ul>			
<ul> <li>Further information obtainable from: Environmental department</li> <li>Emergency telephone number: +49 6182 / 9235-0</li> </ul>			
2 Hazards identification			
· Classification of the substance or mixture			
• Classification according to Directive 67/548/EEC or Directive 1999/45/EC C; Corrosive R34: Causes burns.			
Xn; Harmful			
R22: Harmful if swallowed.			
Xi; Sensitising			
R43: May cause sensitisation by skin contact.			
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.			
<ul> <li>Information concerning particular hazards for human and environment: The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.</li> <li>Classification system:</li> </ul>			
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.			
· Label elements			
<ul> <li>Labelling according to EU guidelines: The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.</li> </ul>			
· Code letter and hazard designation of product:			
C Corrosive			
<ul> <li>Hazard-determining components of labelling: trimethylhexane-1,6-diamine</li> </ul>			
· Risk phrases:			
22 Harmful if swallowed. (Contd. on page 2)			

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- 34 Causes burns.
- 43 May cause sensitisation by skin contact.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### · Safety phrases:

- 20 When using do not eat or drink.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 28 After contact with skin, wash immediately with plenty of soap and water.
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- 61 Avoid release to the environment. Refer to special instructions/safety data sheets.
- · Other hazards
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · **vPvB:** Not applicable.

## 3 Composition/information on ingredients

#### · Chemical characterization: Mixtures

• **Description:** Mixture of substances listed below with nonhazardous additions.

## · Dangerous components:

CAS: 25620-58-0 trimethylhexane-1,6-diamine EINECS: 247-134-8 🙀 C R34; 🗙 Xn R22; 🗙 Xi R43 50-100%

• Additional information: For the wording of the listed risk phrases refer to section 16.

## 4 First aid measures

#### · Description of first aid measures

- · General information: Immediately remove any clothing soiled by the product.
- After inhalation:

Take affected persons into fresh air and keep quiet.

Supply fresh air and to be sure call for a doctor.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
- Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- · Information for doctor:

• Most important symptoms and effects, both acute and delayed No further relevant information available.

• Indication of any immediate medical attention and special treatment needed No further relevant information available.

## **5** Firefighting measures

- · Extinguishing media
- Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- · Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.

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#### · Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation
- Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Use neutralizing agent. Ensure adequate ventilation.
- Reference to other sections See Section 13 for disposal information.

# 7 Handling and storage

#### · Handling:

Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Keep receptacles tightly sealed.

· Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.

#### · Conditions for safe storage, including any incompatibilities

- · Storage:
- Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Store in cool, dry conditions in well sealed receptacles.

Do not allow to enter sewers/ surface or ground water.

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep container tightly sealed.
- Maximum storage temperature: 25°C
- Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

· Control parameters

• Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
   Respiratory protection:
- Use suitable respiratory protective device only when aerosol or mist is formed.

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. Drotaction of handa	(Contd. of page 3)
• Protection of hands:	
Protective gloves	
has to be observed. • For the permanent contact of materials are suitable: PVC gloves	s to be found out by the manufacturer of the protective gloves and f a maximum of 15 minutes gloves made of the following oves made of the following materials are suitable: PVC gloves
Tightly sealed goggles	
· Body protection: Protective work	k clothing
9 Physical and chemical pro	operties
<ul> <li>Information on basic physical a</li> <li>General Information</li> <li>Appearance:</li> </ul>	and chemical properties
	Fluid
Form:	
	Colourless
Form:	Colourless Characteristic
Form: Colour:	
Form: Colour: · Odour:	Characteristic

Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value:	Not determined.
<ul> <li>Change in condition Melting point/Melting range: Boiling point/Boiling range:</li> </ul>	Undetermined. 232°C
· Flash point:	110°C
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	
Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
<ul> <li>Explosion limits: Lower: Upper:</li> </ul>	Not determined. Not determined.
· Vapour pressure:	Not determined.
<ul> <li>Density at 20°C:</li> <li>Relative density</li> </ul>	0.87 g/cm <sup>3</sup> Not determined.

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· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
· Segregation coefficient (n-octanol/	water): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	0.0 %
· Other information	No further relevant information available.

## 10 Stability and reactivity

- · Reactivity
- · Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- Possibility of hazardous reactions Reacts with acids, alkalis and oxidizing agents.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: Reacts with alkali, amines and strong acids.
- · Hazardous decomposition products: Poisonous gases/vapours
- Additional information:

Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

## **11** Toxicological information

· Information on toxicological effects

· Acute toxicity:

## · LD/LC50 values relevant for classification:

25620-58-0 trimethylhexane-1,6-diamine

- Oral LD50 900 mg/kg (rat)
- · Primary irritant effect:
- $\cdot$  on the skin: Caustic effect on skin and mucous membranes.
- · on the eye: Strong caustic effect.
- Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

- Harmful
- Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

## **12 Ecological information**

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.

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· Other adverse effects No further relevant information available.

## 13 Disposal considerations

## · Waste treatment methods

· Recommendation

Must be specially treated adhering to official regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

#### · European waste catalogue

07 02 08\* other still bottoms and reaction residues

15 01 04 metallic packaging

## · Uncleaned packaging:

· Recommendation:

Packaging may be reused or recycled after cleaning.

- Packagings that may not be cleansed are to be disposed of in the same manner as the product.
- · Recommended cleansing agents: Acetone, ethylacetate

· UN-Number · ADR, IMDG, IATA	UN2327
· UN proper shipping name · ADR · IMDG, IATA	2327 TRIMETHYLHEXAMETHYLENEDIAMINES TRIMETHYLHEXAMETHYLENEDIAMINES
· Transport hazard class(es)	
ADR	
a a a a a a a a a a a a a a a a a a a	
Class	8 Corrosive substances.
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· Label	8	
· IMDG, IATA		
· Class	8 Corrosive substances.	
· Label	8	
<ul> <li>Packing group</li> <li>ADR, IMDG, IATA</li> </ul>	III	
<ul> <li>Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	No	
<ul> <li>Special precautions for user</li> <li>Danger code (Kemler):</li> <li>EMS Number:</li> </ul>	Warning: Corrosive substances. 80 F-A,S-B	
<ul> <li>Transport in bulk according to Annex MARPOL73/78 and the IBC Code</li> </ul>	Il of Not applicable.	
· Transport/Additional information:		
· ADR · Tunnel restriction code	E	

# **15 Regulatory information**

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- Labelling according to EU guidelines: The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- · Code letter and hazard designation of product:



C Corrosive

#### • **Hazard-determining components of labelling:** trimethylhexane-1,6-diamine

# · Risk phrases:

- 22 Harmful if swallowed.
- 34 Causes burns.
- 43 May cause sensitisation by skin contact.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### · Safety phrases:

- 20 When using do not eat or drink.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 28 After contact with skin, wash immediately with plenty of soap and water.
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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- (Contd. of page 7) 61 Avoid release to the environment. Refer to special instructions/safety data sheets.
- · National regulations:
- · Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- · Chemical safety assessment: A Chemical Safety Assessment has been carried out.

#### **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Relevant phrases

R22 Harmful if swallowed.

R34 Causes burns.

R43 May cause sensitisation by skin contact.

· Department issuing MSDS: Environmental Department

\*\* Data compared to the previous version altered.

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