

## 1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** SILIKAL Porfil RE 40 Component A
- **Article number:** RE 40-A
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation:** Epoxy resin
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Silikal GmbH  
Ostring 23  
D-63533 Mainhausen  
Tel.: +49-6182/9235-0  
Fax.: +49-6182/9235-40  
e-mail: mail@silikal.de
- **Further information obtainable from:** Environmental department
- **Emergency telephone number:** +49 6182 / 9235-0

## 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
Xi; Irritant  
R36/38: Irritating to eyes and skin.  
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.
- **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.
- **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

### Label elements

- **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:**



Xi Irritant

- **Hazard-determining components of labelling:**  
Hexandioldiglycidether
- **Risk phrases:**  
36/38 Irritating to eyes and skin.  
43 May cause sensitisation by skin contact.  
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

(Contd. on page 2)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 03.01.2012

Vers.No.: 10

Revision: 03.01.2012

**Trade name: SILIKAL Porfil RE 40 Component A**

(Contd. of page 1)

**Safety phrases:**

- 24 Avoid contact with skin.
- 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.
- 37/39 Wear suitable gloves and eye/face protection.
- 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: 16096-31-4	Hexandioldiglycidether	☒ Xi R36/38; ☒ Xi R43	50-100%
EINECS: 240-260-4			

**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.
- After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:** Seek immediate medical advice.
- 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:**  
CO<sub>2</sub>, 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.
- 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**  
Ensure adequate ventilation

(Contd. on page 3)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 03.01.2012

Vers.No.: 10

Revision: 03.01.2012

**Trade name: SILIKAL Porfil RE 40 Component A**

(Contd. of page 2)

- **Environmental precautions:**  
Prevent seepage into sewage system, workpits and cellars.  
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).
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
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:** No special measures required.
- **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.  
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.
- **Protection of hands:**



Protective gloves

- **Material of gloves**  
Butyl rubber, BR  
Nitrile rubber, NBR

(Contd. on page 4)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 03.01.2012

Vers.No.: 10

Revision: 03.01.2012

Trade name: SILIKAL Porfil RE 40 Component A

(Contd. of page 3)

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **For the permanent contact gloves made of the following materials are suitable:**

Butyl rubber, BR

Fluorocarbon rubber (Viton)

Nitrile rubber, NBR

- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:

Fluid

Colour:

Yellowish

- **Odour:**

Characteristic

- **Odour threshold:**

Not determined.

- **pH-value:**

Not determined.

- **Change in condition**

Melting point/Melting range:

Undetermined.

Boiling point/Boiling range:

> 200°C

- **Flash point:**

150°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.

- **Explosion limits:**

Lower:

Not determined.

Upper:

Not determined.

- **Vapour pressure:**

Not determined.

- **Density at 20°C:**

1.06 g/cm<sup>3</sup>

- **Relative density**

Not determined.

- **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 at 20°C:

15 mPas

Kinematic:

Not determined.

(Contd. on page 5)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 03.01.2012

Vers.No.: 10

Revision: 03.01.2012

Trade name: SILIKAL Porfil RE 40 Component A

(Contd. of page 4)

- **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 alcohols, amines, aqueous acids and alkalis.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Reacts with alkali, amines and strong acids.
- **Hazardous decomposition products:** Carbon monoxide and carbon dioxide
- **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:**
- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating 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:  
Irritant

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.  
The material is harmful to the environment.  
Harmful to aquatic organisms
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

(Contd. on page 6)

GB

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 03.01.2012

Vers.No.: 10

Revision: 03.01.2012

**Trade name: SILIKAL Porfil RE 40 Component A**

(Contd. of page 5)

 · **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

### 14 Transport information

 · **UN-Number**

 · **ADR, ADN, IMDG, IATA** Void

 · **UN proper shipping name**

 · **ADR, ADN, IMDG, IATA** Void

 · **Transport hazard class(es)**

 · **ADR, ADN, IMDG, IATA**

 · **Class** Void

 · **Packing group**

 · **ADR, IMDG, IATA** Void

 · **Environmental hazards:**

 · **Marine pollutant:** No

 · **Special precautions for user**

Not applicable.

 · **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

### 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:**


Xi Irritant

(Contd. on page 7)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 03.01.2012

Vers.No.: 10

Revision: 03.01.2012

**Trade name: SILIKAL Porfil RE 40 Component A**

(Contd. of page 6)

- **Hazard-determining components of labelling:**

Hexandioldiglycidether

- **Risk phrases:**

36/38 Irritating to eyes and skin.

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:**

24 Avoid contact with skin.

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.

37/39 Wear suitable gloves and eye/face protection.

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**

R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.

- **Department issuing MSDS:** Environmental Department

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

GB