

## SAFETY DATA SHEET SILFLOOR ET1000 BASE

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

#### Product identifier

**Product name** SILFLOOR ET1000 BASE

#### Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Base component of four part epoxy flooring system.

#### 1.3. Details of the supplier of the safety data sheet

**Company** : SILKON ADDITIVES INDIA PVT LTD  
**Address** : 622-P, SECTOR-38, GURUGRAM  
 HARYANA-122001

**Telephone** : 18001236299 / 9717887038

**EMAIL** : [INFO@SILKON.CO.IN](mailto:INFO@SILKON.CO.IN)

#### Classification of the substance or mixture

##### Classification (EC 1272/2008)

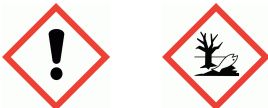
**Physical hazards** Not Classified  
**Health hazards** Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317  
**Environmental hazards** Aquatic Chronic 2 - H411

**Human health** The product is irritating to eyes and skin. May cause an allergic reaction.

**Environmental** The product contains a substance which may cause long-term adverse effects in the aquatic environment.

#### Label elements

##### Hazard pictograms



**Signal word** Warning

**Hazard statements** H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H411 Toxic to aquatic life with long lasting effects.

## SILFLOOR ET1000 BASE

<b>Precautionary statements</b>	<p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P391 Collect spillage.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
<b>Contains</b>	EPOXY RESIN (Type A) (Number average MW ≤ 700 ), OXIRANE, MONO [(C12-14-ALKYLOXY)METHYL] DERIVS, POLYAMINE AMIDE SALT
<b>Supplementary precautionary statements</b>	<p>P261 Avoid breathing vapour/ spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace. P321 Specific treatment (see medical advice on this label).</p> <p>P332+P313 If skin irritation occurs: Get medical advice/ attention.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p>

### Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>reaction product: bisphenol-A-(epichlorhydrin) epoxy resin</b> <b>(number average molecular weight ≤ 700)</b> CAS number: 25068-38-6                      EC number: 500-033-5                      REACH registration number: 01-2119456619-26-XXXX	<b>60-100%</b>
<b>Classification</b> Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	
<b>OXIRANE, MONO [(C12-14-ALKYLOXY)METHYL] DERIVS</b> CAS number: 68609-97-2                      EC number: 271-846-8	<b>5-10%</b>
<b>Classification</b> Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317	
<b>POLYAMINE AMIDE SALT</b> CAS number: —	<b>&lt;1%</b>
<b>Classification</b> Skin Irrit. 2 - H315	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: First aid measures

## SILFLOOR ET1000 BASE

### Description of first aid measures

<b>General information</b>	When symptoms persist or in all cases of doubt seek medical advice.
<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
<b>Ingestion</b>	Do not induce vomiting. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Get medical attention if any discomfort continues.
<b>Skin contact</b>	Wash skin thoroughly with soap and water. Remove contaminated clothing. Wash contaminated clothing before reuse. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Do not rub eye. Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

### Most important symptoms and effects, both acute and delayed

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	May cause coughing and difficulties in breathing.
<b>Ingestion</b>	Nausea, vomiting. May cause discomfort.
<b>Skin contact</b>	May cause an allergic skin reaction.
<b>Eye contact</b>	Severe irritation, burning and tearing.

### Indication of any immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	Treat symptomatically.
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## **SECTION 5: Firefighting measures**

**Suitable extinguishing media** Extinguish with foam, carbon dioxide or dry powder. **5.2.**

### Special hazards arising from the substance or mixture

**Hazardous combustion products** Heating may generate the following products: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO).

### 5.3. Advice for firefighters

**Protective actions during firefighting** In case of fire: Evacuate area. No action shall be taken without appropriate training or involving any personal risk. Move containers from fire area if it can be done without risk. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations. Wear self-contained breathing apparatus and protective fire fighting clothing.

**Special protective equipment for firefighters**

## **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Avoid contact with skin and eyes. Wear protective clothing, gloves, eye and face protection. **6.2.**

### Environmental precautions

**Environmental precautions** Avoid the spillage or runoff entering drains, sewers or watercourses. Harmful to aquatic life with long lasting effects.

### Methods and material for containment and cleaning up

## SILFLOOR ET1000 BASE

**Methods for cleaning up** Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth). Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents.

### Reference to other sections

**Reference to other sections** For personal protection, see Section 8. For waste disposal, see Section 13.

## SECTION 7: Handling and storage

### Precautions for safe handling

**Usage precautions** Wear protective clothing, gloves, eye and face protection. Wash skin thoroughly after handling.

**Advice on general occupational hygiene** Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash contaminated clothing before reuse.

### Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place.

**Storage class** Chemical storage.

### Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

### Control parameters

**Ingredient comments** WEL = Workplace Exposure Limits

**reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) (CAS: 25068-38-6)**

**DNEL** Workers - Inhalation; Short term systemic effects: 12.25 mg/m<sup>3</sup>  
Workers - Inhalation; Long term systemic effects: 12.25 mg/m<sup>3</sup>

**PNEC** - Fresh water; 0.006 mg/l

### **OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS (CAS: 68609-97-2)**

**DNEL** Workers - Inhalation; Long term systemic effects: 3.6 mg/m<sup>3</sup>  
Workers - Dermal; Long term systemic effects: 1 mg/kg bw/day

**PNEC** - Fresh water; 0.0072 mg/l  
- marine water; 0.00072 mg/l

### Exposure controls

#### Protective equipment



**Appropriate engineering controls**

Provide adequate ventilation.

**Eye/face protection**

Wear tight-fitting, chemical splash goggles or face shield.

**Hand protection**

Nitrile gloves are recommended.

## SILFLOOR ET1000 BASE

<b>Other skin and body protection</b>	Wear appropriate clothing to prevent any possibility of skin contact.
<b>Hygiene measures</b>	Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking. Remove contaminated clothing immediately.
<b>Respiratory protection</b>	Gas filter, type A2.
<b>Environmental exposure controls</b>	Avoid release to the environment. Keep container tightly sealed when not in use.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Clear liquid.
<b>Odour</b>	Mild
<b>Odour threshold</b>	Not determined.
<b>pH</b>	Not applicable.
<b>Relative density</b>	1.12-1.15
<b>Solubility(ies)</b>	Insoluble in water
<b>Viscosity</b>	14 - 23 Poise @ 27°C

#### 9.2. Other information

<b>Other information</b>	Not determined.
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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

<b>Reactivity</b>	The following materials may react with the product: Amines. Alcohols. <b><u>10.2.</u></b>
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#### Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures.
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#### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	Under normal conditions of storage and use, no hazardous reactions will occur.
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#### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid heat.
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#### 10.5. Incompatible materials

<b>Materials to avoid</b>	Acids. Alkalis.
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#### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	Does not decompose when used and stored as recommended.
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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

<b>Inhalation</b>	May cause coughing and difficulties in breathing.
<b>Ingestion</b>	May cause discomfort if swallowed.

## SILFLOOR ET1000 BASE

**Skin contact** May cause an allergic skin reaction.

**Eye contact** Causes serious eye irritation.

### Toxicological information on ingredients.

#### reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

##### Acute toxicity - oral

**Acute toxicity oral** 5,000.0  
(LD<sub>50</sub>  
mg/kg)

**Species** Rat

**Notes (oral LD<sub>50</sub>)** NOAEL 750 mg/kg, Oral, Rat

**ATE oral (mg/kg)** 5,000.0

##### Acute toxicity - dermal

**Acute toxicity dermal** 20,000.0  
(LD<sub>50</sub> mg/kg)

**Species** Rabbit

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> >1600 mg/kg, Dermal, Rat

**ATE dermal (mg/kg)** 20,000.0

##### Skin corrosion/irritation

**Animal data** Rabbit Moderately irritating.

##### Skin sensitisation

**Skin sensitisation** May cause sensitisation by skin contact.

#### OXIRANE, MONO [(C12-14- ALKYL OXY)METHYL] DERIVS

##### Acute toxicity - oral

**Acute toxicity oral** 19,200.0  
(LD<sub>50</sub> mg/kg)

**Species** Rat

**ATE oral (mg/kg)** 19,200.0

##### Acute toxicity - dermal

**Acute toxicity dermal** 4,500.0  
(LD<sub>50</sub> mg/kg)

**Species** Rat

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> >2000 mg/kg, Dermal, Rabbit

**ATE dermal (mg/kg)** 4,500.0

### **SECTION 12: Ecological information**

**Ecotoxicity** The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

#### Toxicity

### Ecological information on ingredients.

## SILFLOOR ET1000 BASE

### reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

<b>Toxicity</b>	Ecotoxic to fish/daphnia/algae
<b><u>Acute aquatic toxicity</u></b>	
<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 3.6 mg/l, Leuciscus idus (Golden orfe) LC <sub>50</sub> , 96 hours: 2 mg/l, Oncorhynchus mykiss (Rainbow trout)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 1.8 mg/l, Daphnia magna EC <sub>50</sub> , 72 hours: 11 mg/l, Scenedesmus capricornutum (fresh water algae)
<b>Acute toxicity - aquatic plants</b>	<b><u>OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS</u></b>

### **Acute aquatic toxicity**

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 1 - 10 mg/l, Fish LC <sub>50</sub> , 96 hours: 1800 mg/l, Oncorhynchus mykiss (Rainbow trout)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 1 - 10 mg/l, Daphnia magna EC <sub>50</sub> , 72 hours: 844 mg/l, Algae
<b>Acute toxicity - aquatic plants</b>	

### **Persistence and degradability**

**Persistence and degradability** The product contains substances which are not expected to be biodegradable.

### **Ecological information on ingredients.**

### reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

<b>Persistence and degradability</b>	The product is not readily biodegradable.
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### **Bioaccumulative potential**

**Bioaccumulative potential** No data available on bioaccumulation.

### **Ecological information on ingredients.**

### reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

<b>Partition coefficient</b>	log Pow: 3.242
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### **12.4. Mobility in soil**

**Mobility** The product is insoluble in water.

### **Ecological information on ingredients.**

### reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

<b>Mobility</b>	The product has poor water-solubility.
<b>Adsorption/desorption coefficient</b>	Water - Koc: 445 @ °C

### **Results of PBT and vPvB assessment**

## SILFLOOR ET1000 BASE

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### Ecological information on ingredients.

**reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)**

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### Other adverse effects

**Other adverse effects** None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Do not empty into drains, sewers or water courses. The generation of waste should be minimised or avoided wherever possible.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## SECTION 14: Transport information

### UN number

<b>UN No. (ADR/RID)</b>	3082
<b>UN No. (IMDG)</b>	3082
<b>UN No. (ICAO)</b>	3082
<b>UN No. (ADN)</b>	3082

### UN proper shipping name

**Proper shipping name (ADR/RID)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Type A) (Number average MW ≤ 700 ))

**Proper shipping name (IMDG)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Type A) (Number average MW ≤ 700 ))

**Proper shipping name (ICAO)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Type A) (Number average MW ≤ 700 ))

**Proper shipping name (ADN)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Type A) (Number average MW ≤ 700 ))

### Transport hazard class(es)

<b>ADR/RID class</b>	9
<b>ADR/RID classification code</b>	M6
<b>ADR/RID label</b>	9
<b>IMDG class</b>	9
<b>ICAO class/division</b>	9
<b>ADN class</b>	9



## SILFLOOR ET1000 BASE

### Transport labels



#### Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III
ADN packing group	III

#### Environmental hazards

Environmentally hazardous substance/marine pollutant



#### Special precautions for user

EmS	F-A, S-F
ADR transport category	3
Emergency Action Code	•3Z
Hazard Identification Number 90 (ADR/RID)	

#### Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

<b>National regulations</b>	The Manufacture, storage and import of hazardous chemicals rules 1989.
<b>EU legislation</b>	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
<b>Guidance</b>	Safety Data Sheets for Substances and Preparations.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

## SILFLOOR ET1000 BASE

<b>Abbreviations and acronyms used in the safety data sheet</b>	ATE: Acute Toxicity Estimate. ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. CAS: Chemical Abstracts Service. DNEL: Derived No Effect Level. LD <sub>50</sub> : Lethal Dose to 50% of a test population (Median Lethal Dose).
<b>General information</b>	For professional use only. Only trained personnel should use this material.
<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	25/10/2017
<b>Revision</b>	4A
<b>Supersedes date</b>	23/09/2017
<b>SDS number</b>	24423
<b>Risk phrases in full</b>	R36/38 Irritating to eyes and skin. R43 May cause sensitisation by skin contact.
<b>Hazard statements in full</b>	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H411 Toxic to aquatic life with long lasting effects.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

**SAFETY DATA SHEET**  
**SILFLOOR ET1000**  
**FILLER**

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**Product identifier**

**Product name** SILFLOOR ET1000 FILLER  
**Product number** A1870084

**Relevant identified uses of the substance or mixture and uses advised against**

**Identified uses** Aggregate component of flow applied epoxy resin based floor topping.

**1.3. Details of the supplier of the safety data sheet**

**Company** : **SILKON ADDITIVES INDIA PVT LTD**  
**Address** : **622-P, SECTOR-38, GURUGRAM**  
**HARYANA-122001**

**Telephone** : **18001236299 / 9717887038**

**EMAIL** : **INFO@SILKON.CO.IN**

**SECTION 2: Hazards identification**

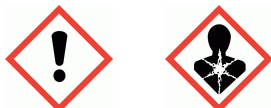
**Classification of the substance or mixture**

**Classification (EC 1272/2008)**

**Physical hazards** Not Classified  
**Health hazards** Eye Irrit. 2 - H319 STOT RE 2 - H373  
**Environmental hazards** Not Classified

**Label elements**

**Hazard pictograms**



**Signal word** Warning

**Hazard statements** H319 Causes serious eye irritation.  
H373 May cause damage to organs (Lungs) through prolonged or repeated exposure.

**Precautionary statements** P260 Do not breathe dust.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P314 Get medical advice/ attention if you feel unwell.  
P501 Dispose of contents/ container in accordance with national regulations.

**Contains** SILICA SAND

# SILFLOOR ET1000 FILLER

**Supplementary precautionary statements** P264 Wash contaminated skin thoroughly after handling.  
P337+P313 If eye irritation persists: Get medical advice/ attention.

**Other hazards**

This product does not contain any substances classified as PBT or vPvB.

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

<b>QUARTZ (SiO<sub>2</sub>)</b>	<b>60-100%</b>
CAS number: 14808-60-7	EC number: 238-878-4
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Not Classified	-

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**SECTION 4: First aid measures**

**Description of first aid measures**

- Inhalation** Remove affected person from source of contamination. Move affected person to fresh air at once. Get medical attention.
- Ingestion** Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.
- Skin contact** Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
- Eye contact** Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

**Most important symptoms and effects, both acute and delayed**

- Inhalation** Dust may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.
- Eye contact** Dust in the eyes will cause irritation. Immediate first aid is necessary. **4.3.**

**Indication of any immediate medical attention and special treatment needed**

**Notes for the doctor** Treat symptomatically.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media** The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire. **5.2.**

**Special hazards arising from the substance or mixture**

**Specific hazards** The product is non-combustible.

**5.3. Advice for firefighters**

- Protective actions during firefighting** No specific firefighting precautions known.
- Special protective equipment for firefighters** Use protective equipment appropriate for surrounding materials.

**SECTION 6: Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

# SILFLOOR ET1000 FILLER

**Personal precautions** Avoid inhalation of dust. Avoid contact with eyes and prolonged skin contact. Wear protective clothing as described in Section 8 of this safety data sheet.

**Environmental precautions**

**Environmental precautions** Avoid discharge into drains or watercourses or onto the ground. **6.3.**

**Methods and material for containment and cleaning up**

**Methods for cleaning up** Flush contaminated area with plenty of water. **6.4.**

**Reference to other sections**

**Reference to other sections** For disposal see section 13.

**SECTION 7: Handling and storage**

**Precautions for safe handling**

**Usage precautions** Avoid inhalation of dust and contact with skin and eyes. Observe any occupational exposure limits for the product or ingredients. Avoid inhalation of dust.

**Conditions for safe storage, including any incompatibilities**

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container.

**Specific end use(s)**

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

**SECTION 8: Exposure controls/Personal protection**

**8.1. Control parameters**

**Occupational exposure limits**

**QUARTZ (SiO<sub>2</sub>)**

Long-term exposure limit (8-hour TWA): WEL 0,1 mg/m<sup>3</sup> Respirable crystalline silica WEL = Workplace Exposure Limit

**Ingredient comments** WEL = Workplace Exposure Limits

**8.2. Exposure controls**

**Protective equipment**



**Appropriate engineering controls**

Provide adequate ventilation. Avoid inhalation of dust. Observe any occupational exposure limits for the product or ingredients.

**Eye/face protection**

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Dust-resistant, chemical splash goggles. (conform EN 166)

**Hand protection**

Wear protective gloves. abrasion resistant material

**Other skin and body protection**

Wear appropriate clothing to prevent any possibility of skin contact.

**Hygiene measures**

Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

# SILFLOOR ET1000 FILLER

**Respiratory protection** Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m<sup>3</sup>. Wear a respirator fitted with the following cartridge: Particulate filter, type P2.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Dusty powder.
<b>Colour</b>	Off-white.
<b>Odour</b>	Odourless.
<b>pH</b>	Not applicable.
<b>Melting point</b>	>1200°C
<b>Initial boiling point and range</b>	Not applicable.
<b>Flash point</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Scientifically unjustified.
<b>Upper/lower flammability or explosive limits</b>	The product is not flammable.
<b>Relative density</b>	1.20 @ 20°C
<b>Solubility(ies)</b>	Insoluble in water.
<b>Explosive properties</b>	Not considered to be explosive.

### 9.2. Other information

**Other information** Not available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** There are no known reactivity hazards associated with this product. 10.2.

### Chemical stability

**Stability** Stable at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** No potentially hazardous reactions known.

### 10.4. Conditions to avoid

**Conditions to avoid** There are no known conditions that are likely to result in a hazardous situation. 10.5.

### Incompatible materials

**Materials to avoid** No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** No known hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Carcinogenicity

# SILFLOOR ET1000 FILLER

<b>Carcinogenicity</b>	Crystalline silica is not classified as a carcinogen in EU Council Directives 67/548/EEC and 88/379/EEC.
<b>Inhalation</b>	Dust may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.
<b>Eye contact</b>	Dust in the eyes will cause irritation.
<b>Route of exposure</b>	Inhalation

## SECTION 12: Ecological information

<b>Ecotoxicity</b>	Not regarded as dangerous for the environment.
<b><u>12.1. Toxicity</u></b>	
<b>Toxicity</b>	Not expected to be ecotoxic to fish/daphnia/algae.
<b><u>12.2. Persistence and degradability</u></b>	
<b>Persistence and degradability</b>	The product is not expected to be biodegradable. <b><u>12.3.</u></b>
<b><u>Bioaccumulative potential</u></b>	
<b>Bioaccumulative potential</b>	Not expected to be bioaccumulative.
<b><u>12.4. Mobility in soil</u></b>	
<b>Mobility</b>	Potential for mobility is low.
<b><u>12.5. Results of PBT and vPvB assessment</u></b>	
<b>Results of PBT and vPvB assessment</b>	This product does not contain any substances classified as PBT or vPvB.
<b><u>12.6. Other adverse effects</u></b>	
<b>Other adverse effects</b>	None known.

## SECTION 13: Disposal considerations

<b><u>13.1. Waste treatment methods</u></b>	
<b>General information</b>	The material is inert and suitable for disposal at an approved solid waste disposal or landfill site.
<b>Disposal methods</b>	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## SECTION 14: Transport information

<b>General</b>	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).
<b><u>UN number</u></b>	Not applicable.
<b><u>UN proper shipping name</u></b>	Not applicable.
<b><u>Transport hazard class(es)</u></b>	No transport warning sign required. <b><u>14.4. Packing group</u></b>

# SILFLOOR ET1000 FILLER

Not applicable.

## Environmental hazards

Environmentally hazardous substance/marine pollutant  
No.

## Special precautions for user

Not applicable.

## Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

## SECTION 15: Regulatory information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

**National regulations** The Manufacture, storage and import of hazardous chemicals rules 1989.

**Guidance** Workplace Exposure Limits EH40.

### Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

**Abbreviations and acronyms used in the safety data sheet** PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative.

**General information** For professional users only.

**Revision date** 24/07/2017

**Revision** 2

**Supersedes date** 23/09/2016

**SDS number** 24425

**Hazard statements in full** H319 Causes serious eye irritation.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H373 May cause damage to organs (Lungs) through prolonged or repeated exposure.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



## SAFETY DATA SHEET

### SILFLOOR ET1000 HARDENER

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

##### Product identifier

**Product name** SILFLOOR ET1000 HARDENER

##### Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Hardener component of the epoxy self levelling flooring system

##### 1.3. Details of the supplier of the safety data sheet

**Company** : SILKON ADDITIVES INDIA PVT LTD  
**Address** : 622-P, SECTOR-38, GURUGRAM  
 HARYANA-122001

**Telephone** : 18001236299 / 9717887038

**EMAIL** : INFO@SILKON.CO.IN

#### SECTION 2: Hazards identification

##### Classification of the substance or mixture

##### Classification (EC 1272/2008)

<b>Physical hazards</b>	Flam. Liq. 3 - H226
<b>Health hazards</b>	Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317
<b>Environmental hazards</b>	Aquatic Chronic 3 - H412
<b>Human health</b>	May cause an allergic reaction. Corrosive to skin and eyes.
<b>Environmental</b>	The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

##### Label elements

##### Hazard pictograms



**Signal word** Danger

**Hazard statements**

H226 Flammable liquid and vapour.  
 H302 Harmful if swallowed.  
 H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.  
 H412 Harmful to aquatic life with long lasting effects.

## SILFLOOR ET1000 HARDENER

<b>Precautionary statements</b>	<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
<b>Contains</b>	ISOPHORONEDIAMINE, BENZYL ALCOHOL, XYLENE, EPOXY RESIN (Type A) (Number average MW <= 700 )
<b>Supplementary precautionary statements</b>	<p>P233 Keep container tightly closed.</p> <p>P240 Ground and bond container and receiving equipment.</p> <p>P241 Use explosion-proof electrical equipment.</p> <p>P242 Use non-sparking tools.</p> <p>P243 Take action to prevent static discharges.</p> <p>P260 Do not breathe vapour/ spray.</p> <p>P261 Avoid breathing vapour/ spray.</p> <p>P264 Wash contaminated skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.</p> <p>P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P310 Immediately call a POISON CENTER/ doctor.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.</p> <p>P403+P235 Store in a well-ventilated place. Keep cool.</p> <p>P405 Store locked up.</p>

### Other hazards

This product does not contain any substances classified as PBT or vPvB.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>ISOPHORONEDIAMINE</b>		<b>30-60%</b>
CAS number: 2855-13-2	EC number: 220-666-8	REACH registration number: 01-2119514687-32-xxxx
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412		

**SILFLOOR ET1000 HARDENER**

<b>BENZYL ALCOHOL</b> <span style="float: right;"><b>30-60%</b></span>		
CAS number: 100-51-6	EC number: 202-859-9	REACH registration number: 01-2119492630-38
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 4 - H332 Eye Irrit. 2 - H319		
<b>XYLENE</b> <span style="float: right;"><b>10-30%</b></span>		
CAS number: 1330-20-7	EC number: 215-535-7	REACH registration number: 01-2119488216-32-0000
<b>Classification</b> Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315		
<b>reaction product: bisphenol-A-(epichlorhydrin) epoxy resin</b> <span style="float: right;"><b>5-10%</b></span> <b>(number average molecular weight ≤ 700)</b>		
CAS number: 25068-38-6	EC number: 500-033-5	REACH registration number: 01-2119456619-26-XXXX
<b>Classification</b> Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**SECTION 4: First aid measures****Description of first aid measures**

<b>General information</b>	When symptoms persist or in all cases of doubt seek medical advice.
<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Do not induce vomiting. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Get medical attention if any discomfort continues.
<b>Skin contact</b>	Wash skin thoroughly with soap and water. Remove contaminated clothing. Wash contaminated clothing before reuse. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Do not rub eye. Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

**Most important symptoms and effects, both acute and delayed**

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
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## SILFLOOR ET1000 HARDENER

<b>Inhalation</b>	May cause coughing and difficulties in breathing.
<b>Ingestion</b>	Dryness of mouth and throat. May cause chemical burns in mouth, oesophagus and stomach.
<b>Skin contact</b>	May cause an allergic skin reaction. Prolonged contact may cause burns.
<b>Eye contact</b>	Severe irritation, burning and tearing.

### Indication of any immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	Treat symptomatically.
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### **SECTION 5: Firefighting measures**

<b>Suitable extinguishing media</b>	Water spray, foam, dry powder or carbon dioxide.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

### Special hazards arising from the substance or mixture

<b>Hazardous combustion products</b>	Heating may generate the following products: Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO). Oxides of nitrogen.
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### Advice for firefighters

<b>Protective actions during firefighting</b>	In case of fire: Evacuate area. No action shall be taken without appropriate training or involving any personal risk. Move containers from fire area if it can be done without risk. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations. Wear self-contained breathing apparatus and protective fire fighting clothing.
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**Special protective equipment for firefighters**

### **SECTION 6: Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Avoid inhalation of vapours and contact with skin and eyes. Wear protective clothing, gloves, eye and face protection.
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#### Environmental precautions

<b>Environmental precautions</b>	Do not discharge into drains or watercourses or onto the ground. Harmful to aquatic life with long lasting effects.
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#### Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth). Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents.
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#### Reference to other sections

<b>Reference to other sections</b>	For personal protection, see Section 8. For waste disposal, see Section 13.
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### **SECTION 7: Handling and storage**

#### Precautions for safe handling

<b>Usage precautions</b>	Avoid inhalation of vapours and contact with skin and eyes. Wear protective clothing, gloves, eye and face protection. Avoid spilling.
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## SILFLOOR ET1000 HARDENER

### Advice on general occupational hygiene

Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Take off contaminated clothing and wash it before reuse.

### Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in tightly-closed, original container in a dry and cool place.

**Storage class** Chemical storage.

### Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

### Control parameters

### Occupational exposure limits

#### XYLENE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m<sup>3</sup> Sk

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

#### ISOPHORONEDIAMINE (CAS: 2855-13-2)

**PNEC**

- marine water; 0.006 mg/l
- Fresh water; 0.06 mg/l
- Soil; 1.121 mg/kg

#### BENZYL ALCOHOL (CAS: 100-51-6)

**DNEL** Workers - Inhalation; Short term systemic effects: 110 mg/m<sup>3</sup>  
Workers - Inhalation; Long term systemic effects: 22 mg/m<sup>3</sup>  
Workers - Dermal; Short term systemic effects: 40 mg/kg bw/day  
Workers - Dermal; Long term systemic effects: 8 mg/kg bw/day

**PNEC**

- Fresh water; 1 mg/l
- marine water; 0.1 mg/l
- STP; 39 mg/l

#### XYLENE (CAS: 1330-20-7)

**DNEL** Workers - Inhalation; Long term systemic effects: 77 mg/m<sup>3</sup>  
Workers - Inhalation; Short term systemic effects: 289 mg/m<sup>3</sup>  
Workers - Dermal; Long term systemic effects: 180 mg/kg/day

**PNEC**

- Fresh water; 0.327 mg/l
- marine water; 0.327 mg/l
- STP; 6.58 mg/l

#### reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) (CAS: 25068-38-6)

**DNEL** Workers - Inhalation; Short term systemic effects: 12.25 mg/m<sup>3</sup>  
Workers - Inhalation; Long term systemic effects: 12.25 mg/m<sup>3</sup>

**PNEC** - Fresh water; 0.006 mg/l

## SILFLOOR ET1000 HARDENER

### Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.

#### Eye/face protection

Wear tight-fitting, chemical splash goggles or face shield.

#### Hand protection

Nitrile gloves are recommended.

#### Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

#### Hygiene measures

Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking. Remove contaminated clothing immediately.

#### Respiratory protection

Gas filter, type AX.

#### Environmental exposure controls

Avoid release to the environment. Keep container tightly sealed when not in use.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Appearance	Clear liquid.
Colour	Pale yellow
Odour	Amine.
Odour threshold	Not determined.
pH	Not applicable.
Flash point	32°C Closed cup.
Relative density	0.95
Solubility(ies)	Insoluble in water
Viscosity	20 Sec @ 27°C

#### 9.2. Other information

Other information	Not determined.
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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Reactivity	The following materials may react with the product: Amino compounds
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#### 10.2. Chemical stability

Stability	Stable at normal ambient temperatures.
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#### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Under normal conditions of storage and use, no hazardous reactions will occur.
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#### 10.4. Conditions to avoid

## SILFLOOR ET1000 HARDENER

**Conditions to avoid** Avoid heat, flames and other sources of ignition.

### 10.5. Incompatible materials

**Materials to avoid** Acids. Oxidising materials.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Does not decompose when used and stored as recommended.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

**ATE oral (mg/kg)** 968.91

#### Acute toxicity - dermal

**ATE dermal (mg/kg)** 2,156.86

#### Acute toxicity - inhalation

**ATE inhalation (gases ppm)** 34,615.38

**ATE inhalation (vapours mg/l)** 84.62

**ATE inhalation (dusts/mists mg/l)** 5.95

**Inhalation** May cause coughing and difficulties in breathing.

**Ingestion** Dryness of mouth and throat.

**Skin contact** May cause an allergic skin reaction. Prolonged contact may cause burns.

**Eye contact** Severe irritation, burning and tearing.

### Toxicological information on ingredients.

#### ISOPHORONEDIAMINE

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 1,030.0

**Species** Rat

**ATE oral (mg/kg)** 500.0

##### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 1,840.0

**Species** Rabbit

**ATE dermal (mg/kg)** 1,100.0

#### BENZYL ALCOHOL

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 1,620.0

**SILFLOOR ET1000 HARDENER**

<b>Species</b>	Rat
<b>ATE oral (mg/kg)</b>	1,620.0
<b><u>Acute toxicity - dermal</u></b>	
<b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b>	2,000.0
<b>Species</b>	Rabbit
<b>ATE dermal (mg/kg)</b>	2,001.0
<b><u>Acute toxicity - inhalation</u></b>	
<b>Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)</b>	11.0
<b>Species</b>	Rat
<b>ATE inhalation (vapours mg/l)</b>	11.0
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Not sensitising.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	NOAEL 200 mg/kg/day, Oral, Mouse There is no evidence that the product can cause cancer.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	NOAEL 400 mg/kg, Oral, Rat
<b>Inhalation</b>	May cause coughing and difficulties in breathing.
<b>Ingestion</b>	May cause burns in mucous membranes, throat, oesophagus and stomach.
<b>Skin contact</b>	Prolonged and frequent contact may cause redness and irritation.
<b>Eye contact</b>	Severe irritation, burning and tearing.

**XYLENE**

<b><u>Acute toxicity - dermal</u></b>	
<b>ATE dermal (mg/kg)</b>	1,100.0
<b><u>Carcinogenicity</u></b>	
<b>IARC carcinogenicity</b>	IARC Group 3 Not classifiable as to its carcinogenicity to humans.
<b><u>reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤700)</u></b>	
<b><u>Acute toxicity - oral</u></b>	
<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	5,000.0
<b>Species</b>	Rat
<b>Notes (oral LD<sub>50</sub>)</b>	NOAEL 750 mg/kg, Oral, Rat
<b>ATE oral (mg/kg)</b>	5,000.0



**SILFLOOR ET1000 HARDENER****Acute toxicity - dermal**

**Acute toxicity dermal** 20,000.0  
(LD<sub>50</sub> mg/kg)

**Species** Rabbit

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> >1600 mg/kg, Dermal, Rat

**ATE dermal (mg/kg)** 20,000.0

**Skin corrosion/irritation**

**Animal data** Rabbit Moderately irritating.

**Skin sensitisation**

**Skin sensitisation** May cause sensitisation by skin contact.

**SECTION 12: Ecological information**

**Ecotoxicity** The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

**Toxicity****Ecological information on ingredients.****ISOPHORONEDIAMINE****Acute aquatic toxicity**

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 110 mg/l, Fish

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 23 mg/l, Daphnia magna  
IC<sub>50</sub>, 72 hours: 50 mg/l, Algae

**Acute toxicity - aquatic plants**

**BENZYL ALCOHOL****Acute aquatic toxicity**

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 460 mg/l, Pimephales promelas (Fat-head Minnow)  
LC<sub>50</sub>, 96 hours: 10 mg/l, Lepomis macrochirus (Bluegill)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 230 mg/l, Daphnia magna  
EC<sub>50</sub>, 72 hours: 770 mg/l, Pseudokirchneriella subcapitata

**Acute toxicity - aquatic plants** NOEC, 72 hours: 310 mg/l, Pseudokirchneriella subcapitata

LC<sub>50</sub>, 49 hours: 2100 mg/l, Activated sludge

**Acute toxicity - microorganisms**

**XYLENE**

**Toxicity** Not considered toxic to fish.

**reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)**

**Toxicity** Ecotoxic to fish/daphnia/algae

**Acute aquatic toxicity**

**SILFLOOR ET1000 HARDENER**

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 3.6 mg/l, Leuciscus idus (Golden orfe) LC <sub>50</sub> , 96 hours: 2 mg/l, Oncorhynchus mykiss (Rainbow trout)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 1.8 mg/l, Daphnia magna EC <sub>50</sub> , 72 hours: 11 mg/l, Scenedesmus capricornutum (fresh water algae)
<b>Acute toxicity - aquatic plants</b>	

**Persistence and degradability**

**Persistence and degradability** The product contains substances which are not expected to be biodegradable.

**Ecological information on ingredients.****ISOPHORONEDIAMINE**

<b>Persistence and degradability</b>	The product is not readily biodegradable.
--------------------------------------	---

**XYLENE**

<b>Persistence and degradability</b>	Expected to be not readily biodegradable.
--------------------------------------	---

**reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)**

<b>Persistence and degradability</b>	The product is not readily biodegradable.
--------------------------------------	---

**Bioaccumulative potential**

**Bioaccumulative potential** No data available on bioaccumulation.

**Ecological information on ingredients.****ISOPHORONEDIAMINE**

<b>Bioaccumulative potential</b>	The product does not contain any substances expected to be bioaccumulating.
<b>Partition coefficient</b>	log K <sub>ow</sub> : 0.99

**reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)**

<b>Partition coefficient</b>	log P <sub>ow</sub> : 3.242
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**12.4. Mobility in soil**

**Mobility** The product is insoluble in water.

**Ecological information on ingredients.****XYLENE**

<b>Mobility</b>	The product is insoluble in water.
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**reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)**

<b>Mobility</b>	The product has poor water-solubility.
<b>Adsorption/desorption coefficient</b>	Water - K <sub>oc</sub> : 445 @ °C

## SILFLOOR ET1000 HARDENER

### Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### Ecological information on ingredients.

**reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)**

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### Other adverse effects

**Other adverse effects** None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Do not empty into drains, sewers or water courses. The generation of waste should be minimised or avoided wherever possible.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## SECTION 14: Transport information

### UN number

<b>UN No. (ADR/RID)</b>	2920
<b>UN No. (IMDG)</b>	2920
<b>UN No. (ICAO)</b>	2920
<b>UN No. (ADN)</b>	2920

### UN proper shipping name

**Proper shipping name (ADR/RID)** CORROSIVE LIQUID, FLAMMABLE, N.O.S. (CONTAINS ISOPHORONEDIAMINE, XYLENE)

**Proper shipping name (IMDG)** CORROSIVE LIQUID, FLAMMABLE, N.O.S. (CONTAINS ISOPHORONEDIAMINE, XYLENE) **Proper shipping name (ICAO)** CORROSIVE LIQUID, FLAMMABLE, N.O.S. (CONTAINS ISOPHORONEDIAMINE, XYLENE) **Proper shipping name (ADN)** CORROSIVE LIQUID, FLAMMABLE, N.O.S. (CONTAINS ISOPHORONEDIAMINE, XYLENE)

### Transport hazard class(es)

<b>ADR/RID class</b>	8
<b>ADR/RID subsidiary risk</b>	3
<b>ADR/RID classification code</b>	CF1
<b>ADR/RID label</b>	8
<b>IMDG class</b>	8
<b>IMDG subsidiary risk</b>	3
<b>ICAO class/division</b>	8
<b>ICAO subsidiary risk</b>	3
<b>ADN class</b>	8

**SILFLOOR ET1000 HARDENER**

ADN subsidiary risk 3

**Transport labels****Packing group**

ADR/RID packing group II  
 IMDG packing group II  
 ICAO packing group II  
 ADN packing group II

**Environmental hazards**

Environmentally hazardous substance/marine pollutant  
 No.

**Special precautions for user**

EmS F-E, S-C  
 ADR transport category 2  
 Emergency Action Code •3W  
 Hazard Identification Number 83  
 (ADR/RID)  
 Tunnel restriction code (D/E)

**Transport in bulk according to Annex II of MARPOL and the IBC Code**

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

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

**National regulations** The Manufacture, storage and import of hazardous chemicals rules 1989.  
**EU legislation** Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).  
 Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).  
**Guidance** Safety Data Sheets for Substances and Preparations.

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16: Other information**

**Abbreviations and acronyms used in the safety data sheet** PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative.

## SILFLOOR ET1000 HARDENER

<b>General information</b>	For professional use only. Only trained personnel should use this material.
<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	26/10/2017
<b>Revision</b>	4A
<b>Supersedes date</b>	24/07/2017
<b>SDS number</b>	24424
<b>Hazard statements in full</b>	H226 Flammable liquid and vapour. H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.