SAFETY DATA SHEET
Sikafloor®-390 N Part A

SECTION 1: Identification of the hazardous chemical and of the supplier

Product name : Sikafloor®-390 N Part A
Product code : 000000034959
Type of product : liquid

Recommended use of the chemical and restrictions on use
Product use : Epoxy coating

Manufacturer or supplier’s details
Lot 689 Nilai Industrial Estate
71800 Nilai
Telephone : +60 6799 1762
Telefax : +60 6799 1980
E-mail address : EHS@my.sika.com
Emergency telephone number :
Contact point :

SECTION 2: Hazards identification

Classification of the hazardous chemical
Skin corrosion/irritation : Category 2
Serious eye damage/eye irritation : Category 1
Skin sensitisation : Category 1
Reproductive toxicity : Category 1B
Hazardous to the aquatic environment - chronic hazard : Category 2

Label elements
Hazard pictograms :
Signal word : Danger
Hazard statements : H315 Causes skin irritation.
Precautionary statements:

**Prevention:**
- P201 Obtain special instructions before use.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/ eye protection/ face protection.
- P281 Use personal protective equipment as required.

**Response:**
- P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
- P308 + P313 IF exposed or concerned: Get medical advice/ attention.
- P391 Collect spillage.

Other hazards which do not result in classification
None known.

SECTION 3: Composition and information of the ingredients of the hazardous chemical

<table>
<thead>
<tr>
<th>Substance / Mixture</th>
<th>Mixture</th>
</tr>
</thead>
</table>

**Hazardous components**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight &lt;= 700)</td>
<td>25068-38-6</td>
<td>&gt;= 10 - &lt; 25</td>
</tr>
<tr>
<td>reaction product: bisphenol F-(epichlorhydrin) epoxy resin (number average molecular weight &lt;= 700)</td>
<td>9003-36-5</td>
<td>&gt;= 5 - &lt; 10</td>
</tr>
<tr>
<td>Trimethylolpropane triglycidylether</td>
<td>30499-70-8</td>
<td>&gt;= 3 - &lt; 5</td>
</tr>
<tr>
<td>benzyl alcohol</td>
<td>100-51-6</td>
<td>&gt;= 3 - &lt; 5</td>
</tr>
<tr>
<td>p-tert-butylphenyl 1-(2,3-epoxy)propyl ether</td>
<td>3101-60-8</td>
<td>&gt;= 0.25 - &lt; 1</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

**General advice:**
- Move out of dangerous area.
- Consult a physician.
- Show this safety data sheet to the doctor in attendance.

**If inhaled:**
- Move to fresh air.
- Consult a physician after significant exposure.

**In case of skin contact:**
- Take off contaminated clothing and shoes immediately.
- Wash off with soap and plenty of water.
- If symptoms persist, call a physician.

**In case of eye contact:**
- Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Keep eye wide open while rinsing.

If swallowed: Clean mouth with water and drink afterwards plenty of water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Obtain medical attention.

Most important symptoms and effects, both acute and delayed:
- Allergic reactions
- Excessive lachrymation
- Dermatitis
- See Section 11 for more detailed information on health effects and symptoms.
- Irritant effects
- Sensitising effects
- Toxic effects for reproduction
- Causes skin irritation.
- May cause an allergic skin reaction.
- Causes serious eye damage.
- May damage fertility.

Notes to physician: Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media:
Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Physicochemical hazards arising from the chemical:
Specific hazards during firefighting: Do not allow run-off from fire fighting to enter drains or water courses.

Special protective equipment and precautions for fire-fighters:
Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing methods: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and: Use personal protective equipment. Deny access to unprotected persons.
emergency procedures

Environmental precautions: Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Handling

Precautions for safe handling

Advice on protection against fire and explosion: Normal measures for preventive fire protection.

Advice on safe handling: Do not breathe vapours or spray mist. Avoid exceeding the given occupational exposure limits (see section 8). Do not get in eyes, on skin, or on clothing. For personal protection see section 8. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Smoking, eating and drinking should be prohibited in the application area. Pregnant women or women of child-bearing age should not be exposed to this product. Follow standard hygiene measures when handling chemical products.

Storage

Conditions for safe storage, including any incompatibilities

Conditions for safe storage: Store in original container. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Store in accordance with local regulations.

SECTION 8: Exposure controls and personal protection

Control parameters

Contains no substances with occupational exposure limit values.

Individual protection measures, such as personal protective equipment
SAFETY DATA SHEET
Sikafloor®-390 N Part A

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.

Skin protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

SECTION 9: Physical and chemical properties

**Appearance** : liquid

**Colour** : various

**Odour** : very faint

**Odour Threshold** : No data available

**pH** : Not applicable

**Melting point/range / Freezing point** : No data available

**Boiling point/boiling range** : No data available

**Flash point** : > 101 °C (> 214 °F)
   Method: closed cup

**Evaporation rate** : No data available

**Flammability** : No data available

**Upper explosion limit** : No data available

**Lower explosion limit** : No data available
Vapour pressure : 0.01 hPa (0.01 mmHg)
Relative vapour density : No data available
Density : ca. 1.6 g/cm³ (20 °C (68 °F) (l))

Solubility(ies)
Water solubility : insoluble
Partition coefficient: n-octanol/water : No data available
Auto-ignition temperature : ca. 435 °C (815 °F)
Decomposition temperature : No data available

Viscosity
Viscosity, dynamic : No data available
Viscosity, kinematic : > 20.5 mm²/s (40 °C)

SECTION 10: Stability and reactivity
Reactivity : No dangerous reaction known under conditions of normal use.
Chemical stability : The product is chemically stable.
Possibility of hazardous reactions : Stable under recommended storage conditions.
Conditions to avoid : No data available
Incompatible materials : No data available
No decomposition if stored and applied as directed.

SECTION 11: Toxicological information
Information on likely routes of exposure : None known.

Acute toxicity
Not classified based on available information.

Components:
reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <= 700):
Acute oral toxicity: LD50 Oral (Rat): > 5,000 mg/kg
Acute dermal toxicity: LD50 Dermal (Rabbit): > 20,000 mg/kg

Trimethylolpropane triglycidylether:
Acute oral toxicity: LD50 Oral (Rat): 3,398 mg/kg

benzyl alcohol:
Acute oral toxicity: LD50 Oral (Rat): 1,620 mg/kg
Acute inhalation toxicity: LC50 (Rat): > 4.178 mg/l
  Exposure time: 4 h
  Test atmosphere: dust/mist

p-tert-butylphenyl 1-(2,3-epoxy)propyl ether:
Acute oral toxicity: LD50 Oral (Rat): > 5,000 mg/kg
Acute inhalation toxicity: LC50 (Rat): 3,466 mg/l
  Exposure time: 4 h
  Test atmosphere: dust/mist

Acute dermal toxicity: LD50 Dermal (Rabbit): 6,000 mg/kg

Skin corrosion/irritation
Causes skin irritation.

Serious eye damage/eye irritation
Causes serious eye damage.

Respiratory or skin sensitisation
Skin sensitisation: May cause an allergic skin reaction.
Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity
Not classified based on available information.

Carcinogenicity
Not classified based on available information.

Reproductive toxicity
May damage fertility.

STOT - single exposure
Not classified based on available information.

STOT - repeated exposure
Not classified based on available information.

Aspiration toxicity
Not classified based on available information.

SECTION 12: Ecological information

Ecotoxicity

Components:
reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <= 700):
Toxicity to fish : LC50 (Oncorhynthus mykiss (rainbow trout)): 2 mg/l
Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.8 mg/l
Exposure time: 48 h
Trimethylolpropane triglycidylether:
Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (microalgae)): 9 mg/l
Exposure time: 72 h
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50 (Daphnia magna (Water flea)): 3.7 mg/l
Exposure time: 48 d
benzyl alcohol:
Toxicity to fish : LC50 (Fish): > 100 mg/l
Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h

Persistence and degradability
No data available
Bioaccumulative potential
No data available
Mobility in soil
No data available
Other adverse effects
Product:
Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal information
Disposal methods
Waste from residues : The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.
SECTION 14: Transport information

International Regulations

**UNRTDG**
- **UN number**: UN 3082
- **Proper shipping name**: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)
- **Class**: 9
- **Packing group**: III
- **Labels**: 9

**IATA-DGR**
- **UN/ID No.**: UN 3082
- **Proper shipping name**: Environmentally hazardous substance, liquid, n.o.s. (epoxy resin)
- **Class**: 9
- **Packing group**: III
- **Labels**: 9
- **Packing instruction (cargo aircraft)**: 964
- **Packing instruction (passenger aircraft)**: 964

**IMDG-Code**
- **UN number**: UN 3082
- **Proper shipping name**: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)
- **Class**: 9
- **Packing group**: III
- **Labels**: 9
- **EmS Code**: F-A, S-F
- **Marine pollutant**: yes

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
Not applicable for product as supplied.

SECTION 15: Regulatory information

**Safety, health, and environmental regulations specific for the hazardous chemical**

- Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.
- International Chemical Weapons Convention (CWC) : Not applicable
- Schedules of Toxic Chemicals and Precursors

SECTION 16: Other information

**Date format**: dd.mm.yyyy

9 / 10
The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.

Changes as compared to previous version!