

# SAFETY DATA SHEET

## Sikafloor®-400 N Elastic



Version 0.0

SDS Number: 000000100532

Revision Date: 2016/09/21

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Sikafloor®-400 N Elastic  
Product code : 000000100532  
Type of product : liquid

#### Recommended use of the chemical and restrictions on use

Product use : Polyurethane coating, Product is not intended for consumer use

#### Manufacturer or supplier's details

Company : Sika (NZ) Ltd.  
85-91 Patiki Road  
Avondale  
Auckland AKL 1026  
  
Telephone : +64 9 820 2900  
  
Emergency telephone number : 0800 734 607  
  
Telefax : +64 9 828 4091  
  
E-mail address : info@nz.sika.com

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Flammable Liquids : Category C  
Acute toxicity (Oral) : Category E  
Skin irritation : Category B  
Eye irritation : Category A  
Respiratory sensitisation : Category A  
Skin sensitisation : Category B  
Carcinogenicity : Category A  
Toxic to Reproduction : Category B  
Specific Target Organ Toxicity : Category B  
Specific Target Organ Toxicity (Inhalation) : Category B (Central nervous system)  
Aquatic toxicity (Acute or Chronic) : Category C

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### GHS label elements

Hazard pictograms

:



Signal word

: Danger

Hazard statements

: H226 Flammable liquid and vapour.  
H303 May be harmful if swallowed.  
H316 Causes mild skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H350 May cause cancer.  
H361 Suspected of damaging fertility or the unborn child.  
H371 May cause damage to organs.  
H373 May cause damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

: **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P309 + P311 IF exposed or if you feel unwell: Call a POISON

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CENTER or doctor/ physician.  
P321 Specific treatment (see supplemental first aid instructions on this label).  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P363 Wash contaminated clothing before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

**Storage:**

P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards which do not result in classification**

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

**Hazardous components**

| Chemical name                                                                                           | CAS-No.    | Concentration (%) |
|---------------------------------------------------------------------------------------------------------|------------|-------------------|
| xylene                                                                                                  | 1330-20-7  | >= 1 - < 10       |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)                                 | 64742-82-1 | >= 1 - < 10       |
| bis[2-[2-(1-methylethyl)-3-oxazolidinyl]ethyl] hexane-1,2-diylbiscarbamate                              | 59719-67-4 | >= 1 - < 10       |
| ethylbenzene                                                                                            | 100-41-4   | >= 1 - < 10       |
| reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <= 700) | 25068-38-6 | >= 1 - < 10       |
| bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate                                                         | 41556-26-7 | >= 0.1 - < 1      |
| Isophorondiisocyanate homopolymer                                                                       | 53880-05-0 | >= 0.1 - < 1      |
| reaction product: bisphenol F-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)     | 9003-36-5  | >= 0.1 - < 1      |
| Quartz (SiO2) <5µm                                                                                      | 14808-60-7 | >= 0.1 - < 1      |
| 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate                                                 | 4098-71-9  | >= 0.1 - < 1      |
| p-tert-butylphenyl 1-(2,3-epoxy)propyl ether                                                            | 3101-60-8  | >= 0.1 - < 1      |
| methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate                                                       | 82919-37-7 | >= 0.1 - < 1      |
| hexahydromethylphthalic anhydride                                                                       | 25550-51-0 | >= 0.1 - < 1      |
| dibutyltin dilaurate                                                                                    | 77-58-7    | >= 0.1 - < 1      |

### SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.  
Consult a physician.

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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 : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- 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 : irritant effects  
sensitising effects  
Allergic reactions  
Excessive lachrymation  
See Section 11 for more detailed information on health effects and symptoms.  
May be harmful if swallowed.  
Causes mild skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause cancer.  
Suspected of damaging fertility or the unborn child.  
May cause damage to organs.  
May cause damage to organs through prolonged or repeated exposure if inhaled.
- Notes to physician : Treat symptomatically.

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### SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : Water  
High volume water jet
- Specific hazards during fire-fighting : Do not use a solid water stream as it may scatter and spread fire.
- Hazardous combustion products : No hazardous combustion products are known
- Specific extinguishing methods : Use water spray to cool unopened containers.

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

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Remove all sources of ignition.  
Deny access to unprotected persons.

Environmental precautions : Prevent product from entering drains.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Use explosion-proof equipment. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Take precautionary measures against electrostatic discharges.

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.  
Take precautionary measures against static discharge.  
Open drum carefully as content may be under pressure.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).  
Follow standard hygiene measures when handling chemical products

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.

Conditions for safe storage : Store in original container.  
Keep in a well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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Observe label precautions.  
Store in accordance with local regulations.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

| Components                                              | CAS-No.    | Value type (Form of exposure)                                                                                                                                          | Control parameters / Permissible concentration | Basis  |  |
|---------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|--------|--|
| xylene                                                  | 1330-20-7  | WES-TWA                                                                                                                                                                | 50 ppm<br>217 mg/m <sup>3</sup>                | NZ OEL |  |
|                                                         |            | TWA                                                                                                                                                                    | 100 ppm                                        | ACGIH  |  |
|                                                         |            | STEL                                                                                                                                                                   | 150 ppm                                        | ACGIH  |  |
| ethylbenzene                                            | 100-41-4   | WES-STEL                                                                                                                                                               | 125 ppm<br>543 mg/m <sup>3</sup>               | NZ OEL |  |
|                                                         |            | WES-TWA                                                                                                                                                                | 100 ppm<br>434 mg/m <sup>3</sup>               | NZ OEL |  |
|                                                         |            | TWA                                                                                                                                                                    | 20 ppm                                         | ACGIH  |  |
|                                                         |            | STEL                                                                                                                                                                   | 125 ppm                                        | ACGIH  |  |
| Quartz (SiO <sub>2</sub> ) <5µm                         | 14808-60-7 | WES-TWA (Respirable dust)                                                                                                                                              | 0.2 mg/m <sup>3</sup>                          | NZ OEL |  |
|                                                         |            | Further information: Carcinogen - known or presumed human carcinogen                                                                                                   |                                                |        |  |
|                                                         |            | TWA (Respirable fraction)                                                                                                                                              | 0.025 mg/m <sup>3</sup> (Silica)               | ACGIH  |  |
| 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate | 4098-71-9  | WES-TWA                                                                                                                                                                | 0.02 mg/m <sup>3</sup> (As -NCO)               | NZ OEL |  |
|                                                         |            | Further information: Sensitiser, Skin absorption, These values apply to all isocyanates, including prepolymers, present in the workplace air as vapours, mist or dust. |                                                |        |  |
|                                                         |            | WES-STEL                                                                                                                                                               | 0.07 mg/m <sup>3</sup> (As -NCO)               | NZ OEL |  |
|                                                         |            | Further information: Sensitiser, Skin absorption, These values apply to all isocyanates, including prepolymers, present in the workplace air as vapours, mist or dust. |                                                |        |  |
|                                                         |            | TWA                                                                                                                                                                    | 0.005 ppm                                      | ACGIH  |  |
| dibutyltin dilaurate                                    | 77-58-7    | TWA                                                                                                                                                                    | 0.1 mg/m <sup>3</sup> (Tin)                    | ACGIH  |  |
|                                                         |            | STEL                                                                                                                                                                   | 0.2 mg/m <sup>3</sup> (Tin)                    | ACGIH  |  |

#### Personal protective equipment

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.

Hand protection : Chemical-resistant, impervious gloves complying with an ap-

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proved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

- Eye protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.
- Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Colour : various
- Odour : characteristic
- Odour Threshold : No data available
- pH : No data available
- Melting point/range / Freezing point : No data available
- Boiling point/boiling range : No data available
- Flash point : ca. 49 °C (120 °F)  
Method: closed cup
- Evaporation rate : No data available
- Flammability : No data available
- Upper explosion limit : 7 %(V)
- Lower explosion limit : 1 %(V)
- Vapour pressure : 7.9993 hPa (6.000 mmHg)
- Relative vapour density : No data available
- Density : ca. 1.63 g/cm<sup>3</sup> (20 °C (68 °F) ())
- Solubility(ies)  
Water solubility : insoluble
- Partition coefficient: n-octanol/water : No data available
- Auto-ignition temperature : ca.  
235 °C (455 °F)

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|                           |                                     |
|---------------------------|-------------------------------------|
| Decomposition temperature | : No data available                 |
| Viscosity                 |                                     |
| Viscosity, dynamic        | : ca. 3,000 mPa.s (20 °C)           |
| Viscosity, kinematic      | : > 20.5 mm <sup>2</sup> /s (40 °C) |
| Explosive properties      | : No data available                 |
| Molecular weight          | : No data available                 |

### 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.<br>Vapours may form explosive mixture with air. |
| Conditions to avoid                | : Heat, flames and sparks.                                                                     |
| Incompatible materials             | : No data available                                                                            |
| Hazardous decomposition products   | : No decomposition if stored and applied as directed.                                          |

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

May be harmful if swallowed.

#### Components:

##### **bis[2-[2-(1-methylethyl)-3-oxazolidinyl]ethyl] hexane-1,2-diylbiscarbamate:**

Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2,000 mg/kg

##### **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

##### **3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate:**

Acute oral toxicity : LD50 Oral (Rat): 4,814 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0.031 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 Dermal (Rat): > 7,000 mg/kg



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### **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

### **dibutyltin dilaurate:**

Acute oral toxicity : LD50 Oral (Rat): 2,071 mg/kg

### **Skin corrosion/irritation**

Causes mild skin irritation.

### **Serious eye damage/eye irritation**

Causes serious eye irritation.

### **Respiratory or skin sensitisation**

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### **Chronic toxicity**

#### **Germ cell mutagenicity**

Not classified based on available information.

#### **Carcinogenicity**

May cause cancer.

#### **Reproductive toxicity**

Suspected of damaging fertility or the unborn child.

#### **STOT - single exposure**

May cause damage to organs.

#### **STOT - repeated exposure**

May cause damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled.

#### **Aspiration toxicity**

Not classified based on available information.

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## SECTION 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

#### **Components:**

#### **bis[2-[2-(1-methylethyl)-3-oxazolidinyl]ethyl] hexane-1,2-diylbiscarbamate:**

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 87.1 mg/l  
Exposure time: 48 h

Toxicity to algae : EC50 (Scenedesmus capricornutum (fresh water algae)): 18.6 mg/l  
Exposure time: 72 h

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

Toxicity to fish : LC50 (Oncorhynchus 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

**dibutyltin dilaurate:**

Toxicity to fish : LC50 (Fish): 3.1 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 1 mg/l  
Exposure time: 48 h

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 1 - 10 mg/l  
Exposure time: 72 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.  
Harmful to aquatic life with long lasting effects.

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### SECTION 13. DISPOSAL CONSIDERATIONS

**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.  
Do not burn, or use a cutting torch on, the empty drum.

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### SECTION 14. TRANSPORT INFORMATION

**International Regulations**

**ADR**

Exempted according to 2.2.3.1.5 (Viscous substance exemption)

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### IATA-DGR

UN/ID No. : UN 1263  
Proper shipping name : Paint  
Class : 3  
Packing group : III  
Labels : 3  
Packing instruction (cargo aircraft) : 366  
Packing instruction (passenger aircraft) : 355

### IMDG-Code

UN number : UN 1263  
Proper shipping name : PAINT  
  
Class : 3  
Packing group : III  
Labels : 3  
EmS Code : F-E, S-E  
Marine pollutant : no

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### National Regulations

#### NZS 5433

UN number : UN 1263  
Proper shipping name : PAINT  
Class : 3  
Packing group : III  
Labels : 3

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## SECTION 15. REGULATORY INFORMATION

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

International Chemical Weapons Convention (CWC) : Not applicable  
Schedules of Toxic Chemicals and Precursors

### HSNO Approval Number

HSR002662

### HSNO Controls

Approved handler certificate not required.  
HSNO tracking not required.  
Refer to EPA user guide to the HSNO control regulations for further information.

### The components of this product are reported in the following inventories:

NZIoC : On the inventory, or in compliance with the inventory

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## SECTION 16. OTHER INFORMATION

Date format : dd.mm.yyyy

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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.