

# SAFETY DATA SHEET

According to SANS 10234, SANS 10228, SANS 11014 and Hazardous Chemical Substance Regs. (GNR. 1179 of 25 August 1995)



## Sikaflex – Tank N

Revision Date 01.09.2020

Version 1.0

Print Date 01.09.2020

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

#### 1.1 Product identifier

Trade name : Sikaflex-Tank N

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

Product use : Sealant/adhesive

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

Company name of supplier : Sika South Africa (Pty) Ltd  
9 Hocking Place  
Westmead  
3608 Pinetown  
South Africa  
Telephone : +27 (0)31 792 6500  
Telefax : +27 (0)31 700 1760  
E-mail address of person responsible for the SDS : headoffice@za.sika.com

#### 1.4 Emergency telephone number

+27 82 490 9409

### SECTION 2: Hazards identification

Type of product : Mixture


#### 2.1 Classification of the substance or mixture

##### Classification (SANS 10234)

Respiratory sensitisation, Category 1 H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

#### 2.2 Label elements

##### Labelling (SANS 10234)

Hazard pictograms : 

Signal word : Danger

Hazard statements : H317 May cause an allergic skin reaction.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements : **Prevention:**

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|                  |  |
|------------------|--|
| P261             | Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.                     |
| P280             | Wear protective gloves.  |
| P284             | In case of inadequate ventilation wear respiratory protection.             |
| <b>Response:</b> |  |
| P304 + P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P333 + P313      | If skin irritation or rash occurs: Get medical advice/ attention.          |
| P342 + P311      | If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.        |

Hazardous components which must be listed on the label:

Pentamethyl piperidylsebacate  
4,4'-methylenediphenyl diisocyanate

### Additional Labelling:

EUH204 Contains isocyanates. May produce an allergic reaction.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

| Chemical name  | CAS-No.<br>EC-No.<br>Registration number         | Classification<br>(SANS 10234)   | Concentration<br>(% w/w) |
|--|--|--|--------------------------|
| N,N-dibenzylidene polyoxypropylene diamine (polymer) | 136855-71-5                                      | Skin Irrit.2; H315   | >= 5 - < 10              |
| Urea,N,N''-(methylenedi-4,1-phenylene)bis[N'-butyl-  | 77703-56-1<br>416-600-4<br>01-0000016345-72-XXXX | Aquatic Chronic4;<br>H413  | >= 2,5 - < 5             |
| xylene<br>Contains:<br>ethylbenzene <= 25 %          | 1330-20-7<br>215-535-7<br>01-2119488216-32-XXXX  | Flam. Liq.3; H226<br>Acute Tox.4; H332<br>Acute Tox.4; H312<br>Skin Irrit.2; H315<br>Eye Irrit.2; H319<br>STOT SE3; H335<br>STOT RE2; H373<br>Asp. Tox.1; H304 | >= 1 - < 2,5             |
| Pentamethyl piperidylsebacate                        | 1065336-91-5                                     | Skin Sens.1A;  | >= 0,1 - < 0,25          |

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|  |  |  |              |
|--|--|--|--------------|
| Contains:<br>bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate | 01-2119491304-40-XXXX                          | H317<br>Aquatic Acute1;<br>H400<br>Aquatic Chronic1;<br>H410   |              |
| methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate            |  |  |              |
| 4,4'-methylenediphenyl diisocyanate                          | 101-68-8<br>202-966-0<br>01-2119457014-47-XXXX | Acute Tox.4; H332<br>Eye Irrit.2; H319<br>STOT SE3; H335<br>Skin Irrit.2; H315<br>Resp. Sens.1;<br>H334<br>Skin Sens.1; H317<br>Carc.2; H351<br>STOT RE2; H373 | >= 0,1 - < 1 |

Remarks : Substances with a workplace exposure limit

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of 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 : Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Do not induce vomiting without medical advice.  
Rinse mouth with water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.

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

- Symptoms : Asthmatic appearance  
Allergic reactions  
See Section 11 for more detailed information on health effects and symptoms.

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Risks : sensitising effects  
May cause an allergic skin reaction.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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

Treatment : Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction.

### 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : No hazardous combustion products are known

### 5.3 Advice for firefighters

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

Further information : Standard procedure for chemical fires.

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## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Deny access to unprotected persons.

### 6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

### 6.3 Methods and material for containment and cleaning up

Methods for 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.

### 6.4 Reference to other sections

For personal protection see section 8.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

- 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.  
Follow standard hygiene measures when handling chemical products
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- 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.

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

- Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Store in accordance with local regulations.
- Further information on storage stability : No decomposition if stored and applied as directed.

#### 7.3 Specific end use(s)

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

| Components | CAS-No.  | Value type (Form of exposure) | Control parameters               | Basis      |
|------------|--|-------------------------------|----------------------------------|------------|
| xylene     | 1330-20-7  | TWA                           | 50 ppm<br>221 mg/m <sup>3</sup>  | 2000/39/EC |
|            | Further information: Identifies the possibility of significant uptake through the skin, Indicative |                               |                                  |            |
|            |  | STEL                          | 100 ppm<br>442 mg/m <sup>3</sup> | 2000/39/EC |
|            |  | STEL OEL-RL                   | 150 ppm<br>650 mg/m <sup>3</sup> | ZA OEL     |
|            | Further information: Absorption through the skin, Recommended Limit                                |                               |                                  |            |

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|  |          |             |                                  |        |
|--|----------|-------------|----------------------------------|--------|
|  |          | TWA OEL-RL  | 100 ppm<br>435 mg/m <sup>3</sup> | ZA OEL |
| 4,4'-methylenediphenyl diisocyanate  | 101-68-8 | TWA OEL-RL  | 0,02 mg/m <sup>3</sup>           | ZA OEL |
| Further information: Sensitisers that may cause sensitisation by inhalation, Recommended Limit |          |             |                                  |        |
|  |          | STEL OEL-RL | 0,07 mg/m <sup>3</sup>           | ZA OEL |

### Biological occupational exposure limits

| Substance name | CAS-No.   | Control parameters                              | Sampling time         | Basis  |
|----------------|-----------|---|-----------------------|--------|
| xylene         | 1330-20-7 | Methylhippuric acid: 1.5 g/g creatinine (Urine) | End of shift          | ZA BEI |
|                |           | Methylhippuric acid: 2 mg/l (Urine)             | Last 4 hours of shift | ZA BEI |

## 8.2 Exposure controls

### Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166  
Eye wash bottle with pure water

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manufacturer specifications.

Suitable for short time use or protection against splashes:  
Butyl rubber/nitrile rubber gloves (> 0,1 mm)  
Contaminated gloves should be removed.  
Suitable for permanent exposure:  
Viton gloves (0.4 mm),  
breakthrough time >30 min.

Skin and body protection : Protective clothing (e.g. Safety shoes acc. to EN ISO 20345, long-sleeved working clothing, long trousers). Rubber aprons and protective boots are additionally recommended for mixing and stirring work.

Respiratory protection : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.  
Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.  
organic vapor filter (Type A)  
A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm  
Ensure adequate ventilation. This can be achieved by local exhaust extraction or by general ventilation. (EN 689 - Meth-

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ods for determining inhalation exposure). This applies in particular to the mixing / stirring area. In case this is not sufficient to keep the concentrations under the occupational exposure limits then respiration protection measures must be used.

### SECTION 9: Physical and chemical properties

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

|  |   |                                   |
|--|---|-----------------------------------|
| Appearance                                       | : | paste                             |
| Colour   | : | various                           |
| Odour  | : | characteristic                    |
| 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<br>Method: closed cup    |
| Evaporation rate                                 | : | No data available                 |
| Flammability (solid, gas)                        | : | No data available                 |
| Upper explosion limit / Upper flammability limit | : | No data available                 |
| Lower explosion limit / Lower flammability limit | : | No data available                 |
| Vapour pressure                                  | : | 0,01 hPa                          |
| Relative vapour density                          | : | No data available                 |
| Density  | : | ca. 1,5 g/cm <sup>3</sup> (20 °C) |
| Solubility(ies)                                  |   |                                   |
| Water solubility                                 | : | insoluble                         |
| Solubility in other solvents                     | : | No data available                 |
| Partition coefficient: n-octanol/water           | : | No data available                 |
| Auto-ignition temperature                        | : | No data available                 |
| Decomposition temperature                        | : | No data available                 |
| Viscosity  |   |                                   |
| Viscosity, dynamic                               | : | Not applicable                    |

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|                      |   |                                   |
|----------------------|---|-----------------------------------|
| Viscosity, kinematic | : | > 20,5 mm <sup>2</sup> /s (40 °C) |
| Explosive properties | : | No data available                 |
| Oxidizing properties | : | No data available                 |

### 9.2 Other information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

The product is chemically stable.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.

### 10.4 Conditions to avoid

Conditions to avoid : Avoid moisture.

### 10.5 Incompatible materials

Materials to avoid : No data available

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Not classified based on available information.

#### Components:

##### **xylene:**

Acute oral toxicity : LD50 Oral (Rat): 3.523 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 1.700 mg/kg

##### **Pentamethyl piperidylsebacate:**

Acute oral toxicity : LD50 Oral (Rat): 3.230 mg/kg

##### **4,4'-methylenediphenyl diisocyanate:**



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Acute inhalation toxicity : Acute toxicity estimate: 1,5 mg/l  
Test atmosphere: dust/mist  
Method: Expert judgement

### **Skin corrosion/irritation**

Not classified based on available information.

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

Not classified based on available information.

### **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.

### **Germ cell mutagenicity**

Not classified based on available information.

### **Carcinogenicity**

Not classified based on available information.

### **Reproductive toxicity**

Not classified based on available information.

### **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.

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## **SECTION 12: Ecological information**

### **12.1 Toxicity**

#### **Components:**

#### **Urea,N,N''-(methylenedi-4,1-phenylene)bis[N'-butyl-:**

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 250 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
aquatic invertebrates Exposure time: 48 h

Toxicity to algae : EC50 (Raphidocelis subcapitata (freshwater green alga)): > 100 mg/l  
Exposure time: 72 h

#### **Pentamethyl piperidylsebacate:**

Toxicity to fish : LC50 (Fish): 0,97 mg/l

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Exposure time: 96 h

M-Factor (Short-term (acute) aquatic hazard) : 1

M-Factor (Long-term (chronic) aquatic hazard) : 1

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

#### Product:

Additional ecological information : There is no data available for this product.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The generation of waste should be avoided or minimized wherever possible.  
Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way.  
Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.  
Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.  
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

European Waste Catalogue : 08 04 09\* waste adhesives and sealants containing organic solvents or other dangerous substances

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Contaminated packaging : 15 01 10\* packaging containing residues of or contaminated by dangerous substances

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### SECTION 14: Transport information

#### 14.1 UN number

Not regulated as a dangerous good

#### 14.2 UN proper shipping name

Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

#### 14.4 Packing group

Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

#### 14.6 Special precautions for user

Not applicable

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

Not applicable for product as supplied.

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### SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 3

1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich (Number on list 52)  
4,4'-methylenediphenyl diisocyanate (Number on list 56)

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : None of the components are listed (= > 0.1 %).

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

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Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH Information: All substances contained in our Products are  
- registered by our upstream suppliers, and/or  
- registered by us, and/or  
- excluded from the regulation, and/or  
- exempted from the registration.

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
Not applicable

Volatile organic compounds : Law on the incentive tax for volatile organic compounds (VOCV)  
Volatile organic compounds (VOC) content: 1,23 %  
no VOC duties

Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 1,23 %

### Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

## SECTION 16: Other information

### Full text of H-Statements

H226 : Flammable liquid and vapour.  
H304 : May be fatal if swallowed and enters airways.  
H312 : Harmful in contact with skin.  
H315 : Causes skin irritation.  
H317 : May cause an allergic skin reaction.  
H319 : Causes serious eye irritation.  
H332 : Harmful if inhaled.  
H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 : May cause respiratory irritation.  
H351 : Suspected of causing cancer.  
H373 : May cause damage to organs through prolonged or repeated exposure.  
H400 : Very toxic to aquatic life.  
H410 : Very toxic to aquatic life with long lasting effects.

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H413 : May cause long lasting harmful effects to aquatic life.

### Full text of other abbreviations

|                 |  |
|-----------------|--|
| Acute Tox.      | : Acute toxicity   |
| Aquatic Acute   | : Short-term (acute) aquatic hazard  |
| Aquatic Chronic | : Long-term (chronic) aquatic hazard   |
| Asp. Tox.       | : Aspiration hazard  |
| Carc.           | : Carcinogenicity  |
| Eye Irrit.      | : Eye irritation   |
| Flam. Liq.      | : Flammable liquids  |
| Resp. Sens.     | : Respiratory sensitisation  |
| Skin Irrit.     | : Skin irritation  |
| Skin Sens.      | : Skin sensitisation   |
| STOT RE         | : Specific target organ toxicity - repeated exposure   |
| STOT SE         | : Specific target organ toxicity - single exposure   |
| ADR             | : European Agreement concerning the International Carriage of Dangerous Goods by Road  |
| CAS             | : Chemical Abstracts Service   |
| DNEL            | : Derived no-effect level  |
| EC50            | : Half maximal effective concentration   |
| GHS             | : Globally Harmonized System   |
| IATA            | : International Air Transport Association  |
| IMDG            | : International Maritime Code for Dangerous Goods  |
| LD50            | : Median lethal dosis (the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals)   |
| LC50            | : Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period)   |
| MARPOL          | : International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978  |
| OEL             | : Occupational Exposure Limit  |
| PBT             | : Persistent, bioaccumulative and toxic  |
| PNEC            | : Predicted no effect concentration  |
| REACH           | : 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), establishing a European Chemicals Agency |
| SVHC            | : Substances of Very High Concern  |
| vPvB            | : Very persistent and very bioaccumulative   |

### Classification of the mixture:

|               |      |
|---------------|------|
| Resp. Sens. 1 | H334 |
| Skin Sens. 1  | H317 |

### Classification procedure:

|                    |
|--------------------|
| Calculation method |
| Calculation method |

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.

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ZA / EN