# Sikaflex-221

SDS Number: 000000601552 Revision Date: 2019/06/21 Version 2.0

### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : Sikaflex-221

Product code : 000000601552

Type of product : paste

Manufacturer or supplier's details

Company : Sika (NZ) Ltd.

85-91 Patiki Road

Avondale

Auckland AKL 1026

Telephone : +64 9 820 2900 : 0800 734 607

Emergency telephone num-

ber

: +64 9 828 4091 Telefax E-mail address : info@nz.sika.com

#### **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

3.1 Flammable Liquids : Category D

6.3 Skin irritation : Category B

6.5 Respiratory sensitisation : Category A

6.5 Skin sensitisation : Category B

6.7 Carcinogenicity : Category B

6.8 Toxic to Reproduction : Category B

6.9 Specific Target Organ Toxicity (Oral) : Category B

6.9 Specific Target Organ Toxicity (Inhalation) : Category B (Central nervous system)

9.1 Aquatic toxicity (Acute or Chronic) : Category D

**GHS** label elements

Hazard pictograms



Signal word : Danger

Hazard statements : H227 Combustible liquid.

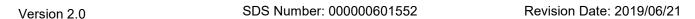
H316 Causes mild skin irritation.

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

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H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

H371 May cause damage to organs if swallowed.

H371 May cause damage to organs if inhaled.

H373 May cause damage to organs (Central nervous system)

through prolonged or repeated exposure if inhaled.

H402 Harmful to aquatic life.

### 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.

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:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P309 + P311 IF exposed or if you feel unwell: Call a POISON 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.

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	>= 2.5 - < 10

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Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	64742-82-1	>= 1 - < 2.5
ethylbenzene	100-41-4	>= 0.25 - < 1
4,4'-methylenediphenyl diisocyanate	101-68-8	>= 0.1 - < 1

**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 : 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.

Most important symptoms and effects, both acute and

delayed

: No known significant effects or hazards.

See Section 11 for more detailed information on health effects

and symptoms.

Causes mild skin irritation.

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficul-

ties if inhaled.

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

May cause damage to organs if swallowed. May cause damage to organs if inhaled.

May cause damage to organs through prolonged or repeated

exposure if inhaled.

Notes to physician : Treat symptomatically.

### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Carbon dioxide (CO2)

Unsuitable extinguishing

media

: Water

Hazardous combustion prod-

iicts

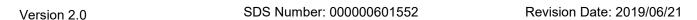
: No hazardous combustion products are known

Specific extinguishing meth-

ods

: Standard procedure for chemical fires.

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Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

tive equipment and emer-

gency procedures

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

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**

Advice on protection against

fire and explosion

: Normal measures for preventive fire protection.

: Avoid exceeding the given occupational exposure limits (see Advice on safe handling

section 8).

Do not get in eyes, on skin, or on clothing. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Follow standard hygiene measures when handling chemical

products

: Handle in accordance with good industrial hygiene and safety Hygiene measures

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. 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	Control parame- ters / Permissible	Basis
		exposure)	concentration	
xylene	1330-20-7	WES-TWA	50 ppm 217 mg/m3	NZ OEL
		TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH

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Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	64742-82-1	WES-TWA	300 ppm 890 mg/m3	NZ OEL
		WES-STEL	500 ppm 1,480 mg/m3	NZ OEL
ethylbenzene	100-41-4	WES-STEL	125 ppm 543 mg/m3	NZ OEL
		WES-TWA	100 ppm 434 mg/m3	NZ OEL
4,4'-methylenediphenyl diiso- cyanate	101-68-8	WES-TWA	0.02 mg/m3 (NCO)	NZ OEL
	Further information: Sensitiser, These values apply to all isocyanates, including prepolymers, present in the workplace air as vapours, mist or dust.			
		WES-STEL	0.07 mg/m3 (NCO)	NZ OEL
	Further information: Sensitiser, These values apply to all isocyanates, including prepolymers, present in the workplace air as vapours, mist or dust.			
		TWA	0.005 ppm	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 max-

imum 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-

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

essary.

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 concen-

tration and amount of dangerous substances, and to the spe-

cific work-place.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : paste

Colour : various

Odour : very faint

Odour Threshold : No data available

pH : Not applicable

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Melting point/range / Freezing

point

: No data available

Boiling point/boiling range : No data available

Flash point : ca. 64.6 °C (148.3 °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 : 1.26 g/cm3 (23 °C (73 °F) ())

Solubility(ies)

Water solubility : insoluble

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : Not applicable

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 reac-

tions

: No hazards to be specially mentioned.

Conditions to avoid : No data available

Incompatible materials : No data available

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No decomposition if stored and applied as directed.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

### **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

ethylbenzene:

Acute oral toxicity : LD50 Oral (Rat): 3,500 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 5,510 mg/kg

### 4,4'-methylenediphenyl diisocyanate:

Acute inhalation toxicity : Acute toxicity estimate: 1.5 mg/l

> Test atmosphere: dust/mist Method: Expert judgement

#### Skin corrosion/irritation

Causes mild skin irritation.

# 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 in-

haled.

# **Chronic toxicity**

#### Germ cell mutagenicity

Not classified based on available information.

# Carcinogenicity

Suspected of causing cancer.

#### Reproductive toxicity

Suspected of damaging fertility or the unborn child.

### STOT - single exposure

May cause damage to organs if swallowed.

May cause damage to organs if inhaled.

### 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:**

xylene:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 3.3 mg/l

Exposure time: 96 h

# Persistence and degradability

No data available

#### **Bioaccumulative potential**

No data available

### Mobility in soil

No data available

### Other adverse effects

**Product:** 

Additional ecological infor-

mation

: There is no data available for this product.

### **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 chemi-

cal 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.

### **SECTION 14. TRANSPORT INFORMATION**

### International Regulations

### **UNRTDG**

Not regulated as a dangerous good

### IATA-DGR

Not regulated as a dangerous good

#### **IMDG-Code**

Not regulated as a dangerous good

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

Not applicable for product as supplied.

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### **National Regulations**

NZS 5433

Not regulated as a dangerous good

### **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**

HSR002680

#### **HSNO Controls**

Certified handler certificate not required.

HSW tracking not required.

Refer to WORKSAFE user guide to the HSW 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

### **SECTION 16. OTHER INFORMATION**

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.