

# SAFETY DATA SHEET

## Sikaflex®-227 Tube



Version 2.0

SDS Number: 100000021619

Revision Date: 15.11.2018

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Sikaflex®-227 Tube

Product code : 100000021619

#### Manufacturer or supplier's details

Company : Sika Ltd.  
Nagatoro 1 - 1  
Hiratsuka - Shi  
Kanagawa 14 2540021  
Japan

Telephone : +81 463 24 4976

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Prepared by : Quality Assurance & EHS Group

### 2. HAZARDS IDENTIFICATION

#### GHS Classification

Reproductive toxicity : Category 1B

Specific target organ toxicity - single exposure : Category 2 (Central nervous system, Kidney, Liver, respiratory system)

Specific target organ toxicity - repeated exposure (Inhalation) : Category 1 (Central nervous system)

Specific target organ toxicity - repeated exposure : Category 2 (Nervous system)

Short-term (acute) aquatic hazard : Category 3

Long-term (chronic) aquatic hazard : Category 3

#### GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : May damage fertility or the unborn child.  
May cause damage to organs (Central nervous system, Kidney, Liver, respiratory system).  
Causes damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled.  
May cause damage to organs (Nervous system) through prolonged or repeated exposure.  
Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
Obtain special instructions before use.

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Do not handle until all safety precautions have been read and understood.  
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
Wash skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Avoid release to the environment.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

IF exposed or concerned: Call a POISON CENTER/doctor.

**Storage:**

Store locked up.

**Disposal:**

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

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

None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

**Hazardous components**

Chemical name	CAS-No.	Concentration (%)	ENCS/ISHL number
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	64742-82-1	>= 10 - < 20	
Titanium(IV) oxide	13463-67-7	>= 1 - < 10	1-558
xylene	1330-20-7	1.4	3-3, 3-60
ethylbenzene	100-41-4	>= 0.3 - < 1	3-60
4,4'-methylenediphenyl diisocyanate	101-68-8	>= 0.1 - < 1	4-118

### 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.  
May damage fertility or the unborn child.  
May cause damage to organs.  
Causes damage to organs through prolonged or repeated exposure

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Notes to physician : if inhaled.  
May cause damage to organs through prolonged or repeated exposure.  
: Treat symptomatically.

### 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

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.

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

### 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 : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

### 7. HANDLING AND STORAGE

#### Handling

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.  
Smoking, eating and drinking should be prohibited in the application area.  
Follow standard hygiene measures when handling chemical products

Avoidance of contact : No data available

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.

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### Storage

Conditions for safe storage : Store in original container.  
Keep in a well-ventilated place.  
Observe label precautions.  
Store in accordance with local regulations.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Threshold limit value and permissible exposure limits for each component in the work environment

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis		
xylene	1330-20-7	ACL	50 ppm	JP OEL ISHL		
		OEL-M	50 ppm 217 mg/m <sup>3</sup>	JP OEL JSOH		
		OEL-M	50 ppm 217 mg/m <sup>3</sup>	JP OEL JSOH		
Further information: Group 2: Substances presumed to cause reproductive toxicity in humans						
		TWA	100 ppm	ACGIH		
		STEL	150 ppm	ACGIH		
ethylbenzene	100-41-4	ACL	20 ppm	JP OEL ISHL		
		OEL-M	50 ppm 217 mg/m <sup>3</sup>	JP OEL JSOH		
		Further information: Group 2: Substances presumed to cause reproductive toxicity in humans, Group 2B: possibly carcinogenic to humans				
		TWA	20 ppm	ACGIH		
		STEL	125 ppm	ACGIH		
4,4'-methylenediphenyl diisocyanate	101-68-8	OEL-M	0.05 mg/m <sup>3</sup>	JP OEL JSOH		
		Further information: Airway sensitizing agent; Group 1 substances which induce allergic reactions in humans				
			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 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 approved 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance	: paste
Colour	: White
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	: ca. 45 °C , Method: closed cup
Evaporation rate	: No data available
Flammability	: No data available
Upper explosion limit	: 6.5 %(V)
Lower explosion limit	: 0.6 %(V)
Vapour pressure	: 3.9997 hPa (3.000 mmHg)
Relative vapour density	: No data available
Density	: ca. 1.18 g/cm <sup>3</sup> (23 °C )
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	: > 20.5 mm <sup>2</sup> /s (40 °C)
Explosive properties	: No data available
Molecular weight	: No data available

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### 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. Vapours may form explosive mixture with air.
Conditions to avoid	: Heat, flames and sparks.

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Incompatible materials : No data available  
Hazardous decomposition products : No decomposition if stored and applied as directed.

### 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**

Not classified based on available information.

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

Not classified based on available information.

#### **Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

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 or the unborn child.

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

May cause damage to organs (Central nervous system, Kidney, Liver, respiratory system).

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

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

May cause damage to organs (Nervous system) through prolonged or repeated exposure.

#### **Aspiration toxicity**

Not classified based on available information.

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### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

##### Components:

##### **xylene:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 3.3 mg/l  
Exposure time: 96 h

##### **ethylbenzene:**

Toxicity to fish : LC50 (Fish): <= 1 mg/l  
Exposure time: 96 h

#### **Persistence and degradability**

No data available

#### **Bioaccumulative potential**

No data available

#### **Mobility in soil**

No data available

#### **Hazardous to the ozone layer**

Not applicable

#### **Other adverse effects**

##### Product:

Additional ecological information : Harmful to aquatic life with long lasting effects.

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### 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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### 14. TRANSPORT INFORMATION

#### **International Regulations**

##### **UNRTDG**

Not regulated as a dangerous good

##### **IATA-DGR**

Not regulated as a dangerous good

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### 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.

### National Regulations

Refer to section 15 for specific national regulation.

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 15. REGULATORY INFORMATION

### Related Regulations

#### Fire Service Law

Not applicable

### Industrial Safety and Health Law

#### Harmful Substances Prohibited from Manufacture

Not applicable

#### Harmful Substances Required Permission for Manufacture

Not applicable

#### Substances Prevented From Impairment of Health

Not applicable

#### Circular concerning Information on Chemicals having Mutagenicity - Annex 2: Information on Existing Chemicals having Mutagenicity

Not applicable

#### Circular concerning Information on Chemicals having Mutagenicity - Annex 1: Information on Notified Substances having Mutagenicity

Not applicable

### Substances Subject to be Notified Names

Article 57-2 (Enforcement Order Table 9)

Chemical name	Number	Concentration (%)
Titanium(IV) oxide	191	$\geq 1 - < 10$
Xylene	136	$\geq 1 - < 10$
Ethylbenzene	70	$\geq 0.1 - < 1$
Methylenebis(4,1-phenylene) diisocyanate	599	$\geq 0.1 - < 1$

### Substances Subject to be Indicated Names

Article 57 (Enforcement Order Article 18)

Chemical name	Number
Titanium(IV) oxide	191
xylene	136
ethylbenzene	70



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### Ordinance on Prevention of Hazards Due to Specified Chemical Substances

Not applicable

### Ordinance on Prevention of Lead Poisoning

Not applicable

### Ordinance on Prevention of Tetraalkyl Lead Poisoning

Not applicable

### Ordinance on Prevention of Organic Solvent Poisoning

Organic Solvents Class 3

### Poisonous and Deleterious Substances Control Law

Not applicable

### Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof

#### Class I Designated Chemical Substances

Chemical name	Number	Concentration (%)
xylene	80	1.4

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

Narcotic or Psychotropic Raw Material : Not applicable

Specific Narcotic or Psychotropic Raw Material : Not applicable

### High Pressure Gas Safety Act

Not applicable

## 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.