# Sikaflex®-251



 Version
 Revision Date:
 SDS Number:
 Date of last issue: 2021/10/28

 3.0
 2023/03/26
 100000012302
 Date of first issue: 2019/09/12

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical product name : Sikaflex®-251

Supplier's company name, address and phone number

Company name of supplier : Sika Japan Ltd.

Akasaka-K-Tower 7F 1-2-7 Moto-Akasaka Minato-ku Tokyo 107-0051 Japan

Telephone : +81 3 6434 7291

E-mail address : EHS@jp.sika.com

Telefax : -

Emergency telephone number : +81 463 24 4976

#### 2. HAZARDS IDENTIFICATION

GHS classification of chemical product

Skin sensitisation : Category 1

Carcinogenicity : Category 2

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

Category 2 (respiratory system, Nervous system)

Short-term (acute) aquatic

hazard

Category 3

Long-term (chronic) aquatic

hazard

Category 3

**GHS** label elements

Hazard pictograms



Signal word : Danger

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Hazard statements : H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H360 May damage fertility or the unborn child.

H371 May cause damage to organs (Central nervous system,

Kidney, Liver, respiratory system).

H373 May cause damage to organs (respiratory system, Nerv-

ous system) through prolonged or repeated exposure. 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.

P260 Do not breathe mist or vapours.

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 protec-

tion/ face protection.

## Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediate-

ly all contaminated clothing. Rinse skin with water.

P308 + P311 IF exposed or concerned: Call a POISON

CENTER/ doctor.

P333 + P313 If skin irritation or rash occurs: Get medical ad-

vice/ attention.

P362 + P364 Take off contaminated clothing and wash it before

reuse.

#### Storage:

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.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

## Components

Chemical name	CAS-No.	Concentration (% w/w)	ENCS/ISHL number
Titanium dioxide (> 10 μm)	13463-67-7	>= 2.5 - < 10	1-558, 5-5225

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xylene	1330-20-7	3.8	3-3, 3-60
ethylbenzene	100-41-4	1.3	3-28, 3-60
hexahydro-4-methylphthalic anhydride	19438-60-9	>= 0.1 - < 1	3-2450

#### 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.

Obtain medical attention.

Most important symptoms and effects, both acute and

delayed

sensitising effects Allergic reactions

See Section 11 for more detailed information on health effects

and symptoms.

May cause an allergic skin reaction. Suspected of causing cancer.

May damage fertility or the unborn child.

May cause damage to organs.

May cause damage to organs through prolonged or repeated

exposure.

Notes to physician Treat symptomatically.

#### 5. FIREFIGHTING MEASURES

Suitable extinguishing media Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

Water

High volume water jet

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Specific hazards during fire-

fighting

Do not use a solid water stream as it may scatter and spread

fire.

Hazardous combustion prod-

No hazardous combustion products are known

Specific extinguishing meth-

Use water spray to cool unopened containers.

for firefighters

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

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :

tive equipment and emer-

gency procedures

Use personal protective equipment. Remove all sources of ignition. Deny access to unprotected persons.

Prevent product from entering drains. Environmental precautions

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 discharg-

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 ap-

plication 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

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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.

**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	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
xylene	1330-20-7	OEL-M	50 ppm	JP OEL
			217 mg/m3	JSOH
	Further informa	ation: Group 2: S	Substances presumed	to cause
	reproductive to	xicity in humans	j	
		ACL	50 ppm	JP OEL ISHL
		TWA	20 ppm	ACGIH
ethylbenzene	100-41-4	ACL	20 ppm	JP OEL ISHL
		OEL-M	20 ppm	JP OEL
			87 mg/m3	JSOH
	Further information: Group 2: Substances presumed to cause			
	reproductive toxicity in humans, Skin absorption, Group 2B: pos-			oup 2B: pos-
	sibly carcinogenic to humans			
		TWA	20 ppm	ACGIH

## Biological occupational exposure limits

Components	CAS-No.	Target sub-	Biological	Sampling	Permissible	Basis
		stance	specimen	time	concentration	
xylene	1330-20-7	total (o-, m-,	Urine	End of	800 mg/l	JSOH
		p-		shift at		
		)methylhipp		end of		
		uric acid		workweek		
		Methylhip-	Urine	End of	1.5 g/g creat- inine	ACGIH BEI
		puric acids		shift (As	IIIIIe	DEI
				soon as		
				possible		
				after ex-		
				posure		

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				ceases)		
ethylbenzene	100-41-4	Mandelic acid	Urine	End of shift	150 mg/g Creatinine	JSOH
		Mandelic acid + Phenylglyox ylic acid	Urine	End of shift at end of workweek	200 mg/g Creatinine	JSOH
		Ethylben- zene	Urine	End of shift	15 μg/l	JSOH
		Sum of mandelic acid and phenyl gly- oxylic acid	Urine	End of shift (As soon as possible after ex- posure ceases)	0.15 g/g cre- atinine	ACGIH BEI

## 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

approved 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.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : paste

Colour : No data available

Odour : characteristic

Odour Threshold : No data available

Melting point/range / Freezing :

point

No data available

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Boiling point/boiling range : No data available

Flammability (solid, gas) : No data available

Lower explosion limit and upper explosion limit / flammability limit

Upper explosion limit /

: 7 %(V)

Upper flammability limit

Lower explosion limit / Lower flammability limit

1 %(V)

Flash point : ca. 50.5 °C

(Method: closed cup)

Decomposition temperature : No data available

pH : Not applicable

Evaporation rate : No data available

Auto-ignition temperature : 465 °C

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : > 20.5 mm2/s (40 °C)

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Vapour pressure : 7.9993 hPa

Density and / or relative density

Density : ca. 1.35 g/cm3 (20 °C)

Relative vapour density : No data available

Explosive properties : No data available

Oxidizing properties : No data available

## 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : The product is chemically stable.

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Possibility of hazardous reac- :

: Vapours may form explosive mixture with air.

tions

No hazards to be specially mentioned.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : No data available

#### 11. TOXICOLOGICAL INFORMATION

## **Acute toxicity**

Not classified based on available information.

# **Components:**

xylene:

Acute oral toxicity : LD50 Oral (Rat): 3,523 mg/kg

ethylbenzene:

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

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

## 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

Not classified based on available information.

#### Germ cell mutagenicity

Not classified based on available information.

## Carcinogenicity

Suspected of causing cancer.

## 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

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

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## **Aspiration toxicity**

Not classified based on available information.

#### 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

## **Components:**

xylene:

Toxicity to fish (Chronic tox-

icity)

NOEC (Oncorhynchus mykiss (rainbow trout)): > 1.3 mg/l

Exposure time: 56 d

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia (water flea)): 1.17 mg/l

Exposure time: 7 d

ethylbenzene:

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

M-Factor (Acute aquatic tox-

icity)

: 1

# 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 infor-

There is no data available for this product.

mation

## 13. DISPOSAL CONSIDERATIONS

**Disposal methods** 

Waste from residues : Send to a licensed waste management company.

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.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product.

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Do not re-use empty containers.

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

#### 14. TRANSPORT INFORMATION

## **International Regulations**

#### **UNRTDG**

UN number : Not applicable
Proper shipping name : Not applicable
Class : Not applicable
Subsidiary risk : Not applicable
Packing group : Not applicable
Labels : Not applicable

**IATA-DGR** 

UN/ID No. : Not applicable
Proper shipping name : Not applicable
Class : Not applicable
Subsidiary risk : Not applicable
Packing group : Not applicable
Labels : Not applicable
Packing instruction (cargo : Not applicable

aircraft)

Packing instruction (passen- : Not applicable

ger aircraft)

IMDG-Code

**UN** number Not applicable Proper shipping name Not applicable Not applicable Class Not applicable Subsidiary risk Not applicable Packing group Not applicable Labels Not applicable EmS Code Marine pollutant Not applicable

# 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

Not applicable

#### 15. REGULATORY INFORMATION

## **Related Regulations**

## Fire Service Law

Designated Flammable Substances

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## **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**

Chemical name	
Ethylbenzene	

# 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	Concentration (%)	Remarks
Titanium(IV) oxide	>=1 - <10	-
Xylene	>=1 - <10	-
Ethylbenzene	>=1 - <10	-

## **Substances Subject to be Indicated Names**

Article 57 (Enforcement Order Article 18)

Chemical name	Remarks
Titanium(IV) oxide	-
xylene	-
ethylbenzene	-

# Ordinance on Prevention of Hazards Due to Specified Chemical Substances - Group 2 Substance

Chemical name	
ethylbenzene	

#### Ordinance on Prevention of Lead Poisoning

Not applicable

# Ordinance on Prevention of Tetraalkyl Lead Poisoning

Not applicable

## **Ordinance on Prevention of Organic Solvent Poisoning**

Not applicable

## **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

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#### Until March 31st, 2023

Class I Designated Chemical Substances

Chemical name	Cabinet Order Number	Concentration (%)
xylene	80	3.8
ethylbenzene	53	1.3

#### From April 1st, 2023

# **Class I Designated Chemical Substances**

Chemical name	Administration number	Concentration (%)
xylene	80	3.8
ethylbenzene	53	1.3

International Chemical Weapons Convention (CWC) : Not applicable

Schedules of Toxic Chemicals and Precursors

## **High Pressure Gas Safety Act**

Not applicable

#### 16. OTHER INFORMATION

Date format yyyy/mm/dd

Full text of other abbreviations

USA. ACGIH Threshold Limit Values (TLV) **ACGIH** ACGIH - Biological Exposure Indices (BEI) ACGIH BEI Japan, Administrative Control Levels

JP OEL ISHL

Japan. The Japan Society for Occupational Health. Recom-JP OEL JSOH

mendation of Occupational Exposure Limits

**JSOH** Occupational exposure limits based on biological monitoring

(JSOH).

ACGIH / TWA 8-hour, time-weighted average Administrative Control level JP OEL ISHL / ACL

JP OEL JSOH / OEL-M Occupational Exposure Limit-Mean

European Agreement concerning the International Carriage of ADR

Dangerous Goods by Road

CAS Chemical Abstracts Service Derived no-effect level DNEL

Half maximal effective concentration EC50

Globally Harmonized System **GHS** IATA International Air Transport Association

**IMDG** International Maritime Code for Dangerous Goods

Median lethal dosis (the amount of a material, given all at LD50

once, which causes the death of 50% (one half) of a group of

test animals)

Median lethal concentration (concentrations of the chemical in LC50

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

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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

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. JP / EN