

# SAFETY DATA SHEET

## Sikaflex®-255Extra+



Version  
3.0

Revision Date:  
2023/04/01

SDS Number:  
000000609432

Date of last issue: 2020/06/17  
Date of first issue: 2017/06/01

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### 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical product name : Sikaflex®-255Extra+

#### 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

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

Product use : Sealant/adhesive

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### 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 1 (respiratory 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

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Hazard pictograms

:



Signal word

:

Danger

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).  
H372 Causes damage to organs (respiratory system) through prolonged or repeated exposure.  
H373 May cause damage to organs (Nervous 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 protection/ face protection.

**Response:**

P302 + P352 IF ON SKIN: Wash with plenty of water.  
P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ 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.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)	ENCS/ISHL number
Carbon black	1333-86-4	>= 10 - < 20	5-5222
xylene	1330-20-7	3.4	3-3, 3-60
ethylbenzene	100-41-4	1.1	3-28, 3-60
4,4'-methylenediphenyl diisocyanate	101-68-8	>= 0.1 - < 1	4-118
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	4098-71-9	>= 0.1 - < 1	3-2492

## 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.  
Causes damage to organs through prolonged or repeated exposure.
- Notes to physician : Treat symptomatically.

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### 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media : Water
- Hazardous combustion products : No hazardous combustion products are known
- Specific extinguishing methods : Standard procedure for chemical fires.
- 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.  
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.
- 

### 7. HANDLING AND STORAGE

#### Handling

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : 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
- Avoidance of contact : No data available
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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 (Form of exposure)	Control parameters / Permissible concentration	Basis
xylene	1330-20-7	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			
		ACL	50 ppm	JP OEL ISHL
		TWA	20 ppm	ACGIH
ethylbenzene	100-41-4	ACL	20 ppm	JP OEL ISHL
		OEL-M	20 ppm 87 mg/m <sup>3</sup>	JP OEL JSOH
	Further information: Group 2: Substances presumed to cause reproductive toxicity in humans, Skin absorption, Group 2B: possibly carcinogenic to humans			
		TWA	20 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

### Biological occupational exposure limits

Components	CAS-No.	Target substance	Biological specimen	Sampling time	Permissible concentration	Basis
xylene	1330-20-7	total (o-, m-, p-)methylhippuric acid	Urine	End of shift at end of workweek	800 mg/l	JSOH
		Methylhippuric acids	Urine	End of shift (As soon as possible)	1.5 g/g creatinine	ACGIH BEI

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				after exposure ceases)		
ethylbenzene	100-41-4	Mandelic acid	Urine	End of shift	150 mg/g Creatinine	JSOH
		Mandelic acid + Phenylglyoxylic acid	Urine	End of shift at end of workweek	200 mg/g Creatinine	JSOH
		Ethylbenzene	Urine	End of shift	15 µg/l	JSOH
		Sum of mandelic acid and phenyl glyoxylic acid	Urine	End of shift (As soon as possible after exposure ceases)	0.15 g/g creatinine	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 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

- Physical state : paste
- Colour : black
- Odour : characteristic
- Odour Threshold : No data available
- Melting point/range / Freezing : No data available

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point

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 /  
Upper flammability limit : No data available

Lower explosion limit /  
Lower flammability limit : No data available

Flash point : ca. 70 °C  
(Method: closed cup)

Decomposition temperature : No data available

pH : Not applicable

Evaporation rate : No data available

Auto-ignition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : > 20.5 mm<sup>2</sup>/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 : 0.01 hPa

Density and / or relative density

Density : ca. 1.13 g/cm<sup>3</sup> (23 °C)

Relative vapour density : No data available

Explosive properties : No data available

Oxidizing properties : No data available

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### 10. STABILITY AND REACTIVITY

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

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Chemical stability : The product is chemically stable.

Possibility of hazardous reactions : No hazards to be specially mentioned.

Conditions to avoid : No data available

Incompatible materials : No data available

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified based on available information.

#### Components:

##### Carbon black:

Acute oral toxicity : LD50 Oral (Rat): > 8,000 mg/kg

##### 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

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

Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50: 1.5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Expert judgement

##### 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

#### Skin corrosion/irritation

Not classified based on available information.



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### 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

Causes damage to organs (respiratory system) through prolonged or repeated exposure.

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:

##### Carbon black:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 1,000 mg/l  
Exposure time: 96 h

##### xylene:

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): > 1.3 mg/l  
Exposure time: 56 d

Toxicity to daphnia and other aquatic invertebrates (Chronic 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 toxicity) : 1

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### **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 : There is no data available for this product.

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## **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 chemical or used container.

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**

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

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Labels : Not applicable  
Packing instruction (cargo aircraft) : Not applicable  
Packing instruction (passenger aircraft) : Not applicable

### IMDG-Code

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

#### 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
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Carbon black	>=10 - <20	-
Xylene	>=1 - <10	-
Ethylbenzene	>=1 - <10	-
Methylenebis(4,1-phenylene) diisocyanate	>=0.1 - <1	-
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	>=0.1 - <1	-

### Substances Subject to be Indicated Names

Article 57 (Enforcement Order Article 18)

Chemical name	Remarks
xylene	-
ethylbenzene	-
Carbon black	-

### 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

Until March 31st, 2023

### Class I Designated Chemical Substances

Chemical name	Cabinet Order Number	Concentration (%)
xylene	80	3.4
ethylbenzene	53	1.1

From April 1st, 2023

### Class I Designated Chemical Substances

Chemical name	Administration number	Concentration (%)
xylene	80	3.4
ethylbenzene	53	1.1

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

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### High Pressure Gas Safety Act

Not applicable

## 16. OTHER INFORMATION

Date format : yyyy/mm/dd

### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)  
JP OEL ISHL : Japan. Administrative Control Levels  
JP OEL JSOH : Japan. The Japan Society for Occupational Health. Recommendation of Occupational Exposure Limits  
JSOH : Occupational exposure limits based on biological monitoring (JSOH).  
ACGIH / TWA : 8-hour, time-weighted average  
JP OEL ISHL / ACL : Administrative Control level  
JP OEL JSOH / OEL-M : Occupational Exposure Limit-Mean  
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 dose (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

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