

SAFETY DATA SHEET

Sikaflex®-527 AT



Version
2.0

Revision Date:
18.03.2026

SDS Number (Internal):
000000128515

Date of last issue: 25.03.2024
Date of first issue: 22.03.2022

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Sikaflex®-527 AT

Recommended use of the chemical and restrictions on use

Product use : Sealant/adhesive

Manufacturer or supplier's details

Company : Sika Korea Ltd.
724, Anseongmatchum-daero
Miyang-myeon
Anseong-si
Gyeonggi-do
Korea

Telephone : +82-31-8056-7777

Emergency telephone number : +82-31-8056-7777

E-mail address : ehs@kr.sika.com

Telefax : +82-31-8056-7788

2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Inhalation) : Category 1

Skin sensitisation : Category 1

Carcinogenicity : Category 2

Reproductive toxicity : Category 2

Specific target organ toxicity -
repeated exposure : Category 2

Specific target organ toxicity -
repeated exposure (Inhalation)
: Category 2 (Lungs)

GHS label elements

Hazard pictograms :



Signal word : Danger

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Hazard statements : H317 May cause an allergic skin reaction.
H330 Fatal if inhaled.
H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H373 May cause damage to organs (Lungs) through prolonged or repeated exposure if inhaled.

Precautionary statements : P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.

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.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284 Wear respiratory protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Disposal:

P501 Dispose of contents/ container according to waste-related laws

Other hazards which do not result in classification

No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

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Substance / Mixture : Mixture

Components

Chemical name	Common Name	CAS-No.	Concentration (% w/w)
calcium carbonate	calcium carbonate	471-34-1	>= 20 - < 25
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	68515-49-1	>= 15 - < 20
Urea,N,N''-(methylenedi-4,1-phenylene)bis[N'-butyl-	Urea,N,N''-(methylenedi-4,1-phenylene)bis[N'-butyl-	77703-56-1	>= 2.5 - < 5
Titanium dioxide (> 10 µm)	Titanium dioxide (> 10 µm)	13463-67-7	>= 1 - < 2.5
N-(3-(trimethoxysilyl)propyl)ethylenediamine	N-(3-(trimethoxysilyl)propyl)ethylenediamine	1760-24-3	>= 0.25 - < 1
trimethoxyvinylsilane	trimethoxyvinylsilane	2768-02-7	>= 0.25 - < 1
Quartz RCS (respirable crystalline silica)	Quartz RCS (respirable crystalline silica)	14808-60-7	0 - < 0.1

4. FIRST AID MEASURES

- General advice : No hazards which require special first aid measures.
- In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Keep eye wide open while rinsing.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
- If inhaled : Move to fresh air.
- 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 : No known significant effects or hazards.
See Section 11 for more detailed information on health effects

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delayed and symptoms.
May cause an allergic skin reaction.
Fatal if inhaled.
Suspected of causing cancer.
Suspected of damaging fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.

Notes to physician : Treat symptomatically.

5. FIREFIGHTING MEASURES

Suitable and unsuitable extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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 : For personal protection see section 8.

Environmental precautions : No special environmental precautions required.

Methods and materials for containment and cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).
Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Advice on safe handling : For personal protection see section 8.
No special handling advice required.
Follow standard hygiene measures when handling chemical products

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Store in accordance with local regulations.

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Materials to avoid : No special restrictions on storage with other products.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
calcium carbonate	471-34-1	TWA	10 mg/m ³ (Calcium carbonate)	KR OEL
Titanium dioxide (> 10 µm)	13463-67-7	TWA	10 mg/m ³	KR OEL
	Further information: Limited evidence of carcinogenicity in humans or animals, which is not sufficiently convincing to place the substance in Category 1			
Quartz RCS (respirable crystalline silica)	14808-60-7	TWA (Respirable fraction)	0.05 mg/m ³	KR OEL
	Further information: Sufficient evidence of carcinogenicity in humans			
		TWA (Respirable particulate matter)	0.025 mg/m ³	ACGIH
		TWA (Respirable particulate matter)	0.025 mg/m ³ (Silica)	ACGIH
		TWA (Respirable particulate matter)	0.025 mg/m ³	ACGIH
		TWA (Respirable particulate matter)	0.025 mg/m ³ (Silica)	ACGIH

Other ingredients, which are listed in section 3 but not listed in this section, do not have established occupational exposure limit values.

Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
methanol	67-56-1	TWA	200 ppm	KR OEL
	Further information: Substances designated by 'Skin' may be absorbed into the bloodstream through the skin, mucous membrane and eye and contribute to the overall effect. (Skin notation does not apply to the skin irritant)			

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		STEL	250 ppm	KR OEL
		TWA	200 ppm	KR PEL
		STEL	250 ppm	KR PEL
		TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH

Personal protective equipment. Among the following personal protective equipment, the PPEs which require safety certification need to be certified by KOSHA.

- 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.
- Eye protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.
- 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.
- 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.
- Hygiene measures : When using do not eat or drink.
When using do not smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : paste
- Colour : various
- Odour : odourless
- 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 (214 °F)
(Method: closed cup)
- Evaporation rate : No data available

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Flammability (solid, gas) : No data available

Upper/lower flammability or explosive limits

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : 0.01 hPa

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data available

Density : ca. 1.39 g/cm³ (20 °C)

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 mm²/s (40 °C (104 °F))

Explosive properties : No data available

Oxidizing properties : No data available

10. STABILITY AND REACTIVITY

Chemical stability and possibility of hazardous reactions : Reactivity:
No dangerous reaction known under conditions of normal use.
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

Hazardous decomposition products : No hazardous decomposition products are known.

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11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : No data available

Health hazard information

Acute toxicity

Fatal if inhaled.

Components:

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

Acute oral toxicity : LD50 Oral (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2,000 mg/kg
Method: OECD Test Guideline 402

trimethoxyvinylsilane:

Acute oral toxicity : LD50 Oral (Rat): ca. 7,120 mg/kg

Acute inhalation toxicity : LC50: ca. 16.8 mg/l
Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50: 3,540 mg/kg

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

Respiratory sensitisation

No data available

Skin sensitisation

May cause an allergic skin reaction.

Carcinogenicity

Suspected of causing cancer.

Components:

calcium carbonate:

No data available

1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich:

No data available

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

No data available

Titanium dioxide (> 10 µm):

Suspected of causing cancer.

N-(3-(trimethoxysilyl)propyl)ethylenediamine:

No data available

trimethoxyvinylsilane:

No data available

Quartz RCS (respirable crystalline silica):

May cause cancer.

Germ cell mutagenicity

No data available

Components:

calcium carbonate:

No data available

1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich:

No data available

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

No data available

Genotoxicity in vivo

: Species: Bacteria
Method: OECD Test Guideline 471
Result: negative

Method: TA98

Method: TA100

Method: TA1535

Method: TA1537

Titanium dioxide (> 10 µm):

No data available

N-(3-(trimethoxysilyl)propyl)ethylenediamine:

No data available

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trimethoxyvinylsilane:

No data available

Quartz RCS (respirable crystalline silica):

No data available

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

Components:

calcium carbonate:

No data available

1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich:

Suspected of damaging fertility or the unborn child.

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

No data available

Titanium dioxide (> 10 µm):

No data available

N-(3-(trimethoxysilyl)propyl)ethylenediamine:

No data available

trimethoxyvinylsilane:

No data available

Quartz RCS (respirable crystalline silica):

No data available

STOT - single exposure

No data available

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

May cause damage to organs (Lungs) through prolonged or repeated exposure if inhaled.

Repeated dose toxicity

No data available

Aspiration toxicity

No data available

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Experience with human exposure

No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

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/aquatic : EC50 (Raphidocelis subcapitata (freshwater green alga)): >
plants 100 mg/l
Exposure time: 72 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- : There is no data available for this product.
mation

13. DISPOSAL CONSIDERATIONS

Disposal methods

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

Disposal precautions

Dispose of contents and container according to wastes control act.

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14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

UN number : Not applicable
Proper shipping name : Not applicable
Class : Not applicable
Subsidiary risk : Not applicable
Packing group : Not applicable
Labels : Not applicable
Environmentally hazardous : no

IATA-DGR

Not regulated as a dangerous good

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

IMDG-Code

Not regulated as a dangerous good

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 : no

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

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15. REGULATORY INFORMATION

National regulatory information

Regulation under the Occupational Safety and Health Act

Harmful Substances Prohibited from Manufacturing

Not applicable

Harmful Substances Required Permission for Manufacture

Not applicable

Harmful Agents to be kept below Occupational Exposure Limits

Chemical name	CAS-No.
Calcium carbonate	471-34-1
Limestone	1317-65-3
Titanium dioxide	13463-67-7
Silica (Crystalline quartz)	14808-60-7

Harmful Agents Required to be kept below Permission Levels

Not applicable

Hazardous substances requiring management

Chemical name	CAS-No.	Threshold limits (%)
Titanium dioxide	13463-67-7	>= 1 %

Special Management Materials

Not applicable

Controlled Substances Subject to Environment Monitoring

Chemical name	CAS-No.	Threshold limits (%)
Titanium dioxide	13463-67-7	>= 1 %
Silica	14808-60-7	

Controlled Substances Subject to Health Examination

Not applicable

Hazardous Substances Subject to Process Safety Management (PSM) Reporting Obligation

Not applicable

K-OSHA Hazardous Substances (Occupational Safety and Health Regulations, Table 1)

Category
Acute toxic substances (inhalation)

K-OSHA Hazardous Substances (Occupational Safety and Health Regulations, Table 9)

Category	Manufacturing or handling quantity
Acute toxic substances (inhalation)	5 kilogram

Regulation under the Chemicals Control Act

Chemicals of Acute and Chronic Hazard to Human Health and the Environment

Accident Precaution Chemicals

Not applicable

Toxic Release Inventory

Not applicable

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Act on Registration and Evaluation of Chemical Substances (K-REACH)

Restricted Chemicals

Not applicable

Prohibited Chemicals

Not applicable

Substances with Unconfirmed Hazards

Not applicable

Dangerous Substances Safety Management Act

Not Applicable to Dangerous Materials

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

㉑. Wastes Control Act

Industrial general wastes
Follow article 13 of the act to dispose the product waste

㉒. Other requirements in domestic and other countries

The components of this product are reported in the following inventories:

JP ENCS : On the inventory, or in compliance with the inventory

JP ISHL : Not in compliance with the inventory

KR KECI : Not in compliance with the inventory

16. OTHER INFORMATION

Issuing date : 22.03.2022

Revision number and date

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Date format : yyyy/mm/dd

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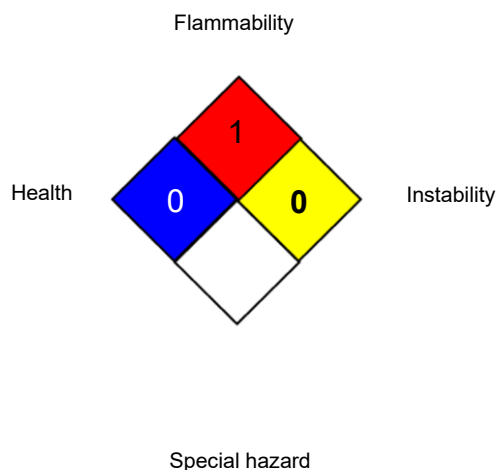
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NFPA:



Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
KR OEL : Harmful Agents to be kept below Occupational Exposure Limits
KR PEL : Harmful Agents Required to be kept below Permission Levels

ACGIH / TWA : 8-hour, time-weighted average
ACGIH / STEL : Short-term exposure limit
KR OEL / TWA : Time Weighted Average
KR OEL / STEL : Short Term Exposure Limit
KR PEL / TWA : TWA
KR PEL / STEL : STEL
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

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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.

KR / EN