

Revision Date: 20.11.2024 Date of last issue: 06.10.2024 Version 3.0

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

### **1.1 Product identifier**

Trade name

Sikaflex<sup>®</sup>-591

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Product use : Sealant/adhesive

#### 1.3 Details of the supplier of the safety data sheet

Company name of supplier	:	Sika Nederland B.V.
		Zonnebaan 56
		3542 EG Utrecht
		Nederland
Telephone	:	+31-30-2410120
Telefax	:	+31-30-2414482
E-mail address of person	:	EHS@nl.sika.com
responsible for the SDS		

#### **1.4 Emergency telephone number**

+31-57-0854201

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### Additional Labelling

EUH208	Contains Pentamethylpiperidinol-substituted polyester, trimethoxyvinylsilane, 2- octyl-2H-isothiazole-3-one (OIT). May produce an allergic reaction.
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



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Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Contains a biocide in order to protect the product. Active ingredient: 2-octyl-2H-isothiazole-3-one (OIT), 26530-20-1. Please use treated articles responsibly.

### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

### Components

Components			
Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
distillates (petroleum), hydrotreat- ed light paraffinic	64742-55-8 265-158-7 01-2119487077-29- XXXX	Asp. Tox. 1; H304 EUH066	>= 2,5 - < 5
Pentamethylpiperidinol- substituted polyester	85631-00-1 287-947-5 01-2120771539-41- XXXX	Acute Tox. 4; H302 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 4; H413	>= 0,25 - < 0,5
		M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	
		Acute toxicity esti- mate	
		Acute oral toxicity: 1.900 mg/kg	
trimethoxyvinylsilane Contains: tetramethyl orthosilicate <= 0,2 %	2768-02-7 220-449-8 01-2119513215-52- XXXX	Flam. Liq. 3; H226 Acute Tox. 4; H332 Skin Sens. 1B; H317	>= 0,1 - < 0,5
		Acute toxicity esti- mate	
		Acute inhalation tox- icity (vapour): 16,8 mg/l	

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according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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2-octyl-2H-isothiazole-3-one (OIT)	26530-20-1 247-761-7 01-2120768921-45- XXXX	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 3; H311 Skin Corr. 1; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071 M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100 Specific concentration limit Skin Sens. 1A; H317 >= 0,0015 % Acute toxicity esti- mate Acute oral toxicity: 125 mg/kg Acute inhalation tox- icity (dust/mist): 0,27 mg/l Acute dermal toxicity: 311 mg/kg	>= 0,0002 - < 0,0015
Substances with a workplace expo			
Titanium dioxide (> 10 μm)	13463-67-7 236-675-5 01-2119489379-17- XXXX		>= 2,5 - < 5

For explanation of abbreviations see section 16.

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General advice	:	No hazards which require special first aid measures.
If inhaled	:	Move to fresh air.
In case of skin contact	:	Take off contaminated clothing and shoes immediately.



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		Wash off with soap and plenty of water.	
In case of eye contact :	:	Remove contact lenses. Keep eye wide open while rinsing.	
If swallowed :	:	Do not induce vomiting without medical advice. Rinse mouth with water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious	s person.
4.2 Most important symptoms and	l e	ffects, both acute and delayed	
Symptoms :	:	See Section 11 for more detailed information on and symptoms.	health effects
Risks :	:	No known significant effects or hazards.	
	ed :	lical attention and special treatment needed Treat symptomatically.	
SECTION 5: Firefighting measu	Jre	es	
5.1 Extinguishing media			
Suitable extinguishing media :	:	In case of fire, use water/water spray/water jet/c ide/sand/foam/alcohol resistant foam/chemical p extinction.	
5.2 Special hazards arising from the	he	substance or mixture	
Hazardous combustion prod- : ucts	:	No hazardous combustion products are known	
5.3 Advice for firefighters			
Special protective equipment : for firefighters	:	In the event of fire, wear self-contained breathing	g apparatus.
Further information :	:	Standard procedure for chemical fires.	
SECTION 6: Accidental release	e n	neasures	
6.1 Personal precautions, protectiv	ive	e equipment and emergency procedures	
Personal precautions :	:	For personal protection see section 8.	
6.2 Environmental precautions			
Environmental precautions :	:	No special environmental precautions required.	



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### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up

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

### 6.4 Reference to other sections

For personal protection see section 8.

### **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Ac	dvice on safe handling	:	For personal protection see section 8. No special handling advice required. Follow standard hygiene measures when handling chemical products
	dvice on protection against e and explosion	:	Normal measures for preventive fire protection.
Ну	/giene measures	:	When using do not eat or drink. When using do not smoke.
7.2 Co	nditions for safe storage, ir	nclu	uding any incompatibilities
	equirements for storage eas and containers	:	Keep container tightly closed in a dry and well-ventilated place. Store in accordance with local regulations.
Ac	dvice on common storage	:	No special restrictions on storage with other products.
	urther information on stor- je stability	:	No decomposition if stored and applied as directed.
7.3 Sp	ecific end use(s)		
Sp	pecific use(s)	:	Consult most current local Product Data Sheet prior to any

### **SECTION 8: Exposure controls/personal protection**

use.

### 8.1 Control parameters

#### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form	Control parame-	Basis *
		of exposure)	ters *	
Titanium dioxide (> 10 μm)	13463-67-7	TWA	10 mg/m3	DE TRGS 900
distillates (petroleum), hydrotreated light paraffinic	64742-55-8	TLV-8hr (Mist)	5 mg/m3	NL WG



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\*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

### Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters *	Basis *
methanol	67-56-1	TWA	200 ppm 260 mg/m3	2006/15/EC
		nation: Indicative, Id hrough the skin	entifies the possib	ility of signifi-
		TLV-8hr	100 ppm 133 mg/m3	NL WG
	Further inforr	nation: Skin notation		

\*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

### 8.2 Exposure controls

### Engineering measures

Maintain air concentrations below occupational exposure standards. Ensure adequate ventilation, especially in confined areas.

Personal protective equipme	nt	
Eye/face protection	:	Safety glasses
Hand protection	:	Chemical-resistant, impervious gloves complying with an ap- proved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manu- facturer specifications.
		Butyl rubber/nitrile rubber gloves (> 0,1 mm) Recommended: Butyl rubber/nitrile rubber gloves.
Skin and body protection	:	Protective clothing (e.g. Safety shoes acc. to EN ISO 20345, long-sleeved working clothing, long trousers). Rubber aprons and protective boots are additionally recommended for mixing and stirring work.
Respiratory protection	:	In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe work- ing limits of the selected respirator. organic vapor filter (Type A) A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm Ensure adequate ventilation. This can be achieved by local exhaust extraction or by general ventilation. (EN 689 - Meth- ods for determining inhalation exposure). This applies in par- ticular to the mixing / stirring area. In case this is not sufficient to keep the concentrations under the occupational exposure limits then respiration protection measures must be used.

### **Environmental exposure controls**

General advice	: No special environmental precautions required.
Country NL 10000009489	



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### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Physical state Appearance Colour	:	liquid paste various
Odour	:	slight
Melting point/ range / Freez- ing point	:	No data available
Boiling point/boiling range	:	No data available
Flammability (solid, gas)	:	No data available
Upper/lower flammability or o	ovn	losivo limits
Upper explosion limit / Up- per flammability limit	-	
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	ca. 101 °C Method: closed cup
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	Not applicable substance/mixture is non-soluble (in water)
Viscosity		
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable
Solubility(ies)		

: insoluble

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Partition coefficient: n- octanol/water	: No data available	
Vapour pressure	: 0,01 hPa	
Density	: ca. 1,51 g/cm3 (20 °C)	
Relative vapour density	: No data available	
Particle characteristics	: No data available	

### 9.2 Other information

No data available

### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

#### 10.2 Chemical stability

The product is chemically stable.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

### 10.4 Conditions to avoid

### 10.5 Incompatible materials

Materials to avoid	:	No data available
Materiale to avoia	•	

### **10.6 Hazardous decomposition products**

: methanol

### **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Not classified due to lack of data.

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Components:			
Pentamethylpiperidinol-se	ubstit	uted polyester:	
Acute oral toxicity	:	LD50 Oral (Rat): 1.900 mg/kg	
		Acute toxicity estimate: 1.900 mg/kg Method: Calculation method	
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 toxicity estimate: 16,8 mg/l Test atmosphere: vapour Method: Calculation method	
Acute dermal toxicity	:	LD50: 3.540 mg/kg	
2-octyl-2H-isothiazole-3-o	ne (C	IT):	
Acute oral toxicity	:	Acute toxicity estimate: 125 mg/kg Method: Acute toxicity estimate according t No. 1272/2008	to Regulation (EC)
Acute inhalation toxicity	:	Acute toxicity estimate: 0,27 mg/l Test atmosphere: dust/mist Method: Acute toxicity estimate according t No. 1272/2008	to Regulation (EC)
Acute dermal toxicity	:	Acute toxicity estimate: 311 mg/kg Method: Acute toxicity estimate according t No. 1272/2008	to Regulation (EC)
Skin corrosion/irritation			
Not classified due to lack of	data		
Components:			
distillates (petroleum), hy Assessment	drotr :	eated light paraffinic: Repeated exposure may cause skin drynes	ss or cracking.
Serious eye damage/eye i Not classified due to lack of			
Respiratory or skin sensit			
Skin sensitisation			
Not classified due to lack of	-1-1-		





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## Respiratory sensitisation

Not classified due to lack of data.

### Germ cell mutagenicity

Not classified due to lack of data.

# Carcinogenicity

Not classified due to lack of data.

### Reproductive toxicity

Not classified due to lack of data.

### STOT - single exposure

Not classified due to lack of data.

### STOT - repeated exposure

Not classified due to lack of data.

# Aspiration toxicity

Not classified due to lack of data.

### 11.2 Information on other hazards

### **Endocrine disrupting properties**

### Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### **SECTION 12: Ecological information**

### 12.1 Toxicity

**Components:** 

### Pentamethylpiperidinol-substituted polyester:

M-Factor (Acute aquatic tox- : 1 icity)

M-Factor (Chronic aquatic : 1 toxicity)

### 2-octyl-2H-isothiazole-3-one (OIT):

M-Factor (Acute aquatic tox- : 100 icity)

M-Factor (Chronic aquatic : 100 toxicity)

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### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

### Product:

Assessment

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

### **12.6 Endocrine disrupting properties**

Product:	
Assessment	: The substance/mixture does not contain components consid- ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.7 Other adverse effects	
Product:	
Additional ecological infor- mation	: There is no data available for this product.

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product: The generation of waste should be avoided or minimized<br/>wherever possible.<br/>Empty containers or liners may retain some product residues.<br/>This material and its container must be disposed of in a safe<br/>way.<br/>Dispose of surplus and non-recyclable products via a licensed<br/>waste disposal contractor.<br/>Disposal of this product, solutions and any by-products should<br/>at all times comply with the requirements of environmental<br/>protection and waste disposal legislation and any regional<br/>local authority requirements.<br/>Avoid dispersal of spilled material and runoff and contact with<br/>soil, waterways, drains and sewers.



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European Waste Catalogue : 08 04 09\* waste adhesives and sealants containing organic solvents or other dangerous substances

### **SECTION 14: Transport information**

14.1 UN number or ID number					
ADR	:	Not regulated as a dangerous good			
IMDG	:	Not regulated as a dangerous good			
ΙΑΤΑ	:	Not regulated as a dangerous good			
14.2 UN proper shipping name					
ADR	:	Not regulated as a dangerous good			
IMDG	:	Not regulated as a dangerous good			
ΙΑΤΑ	:	Not regulated as a dangerous good			
14.3 Transport hazard class(es)					
ADR	:	Not regulated as a dangerous good			
IMDG	:	Not regulated as a dangerous good			
ΙΑΤΑ	:	Not regulated as a dangerous good			
14.4 Packing group					
ADR	:	Not regulated as a dangerous good			
IMDG	:	Not regulated as a dangerous good			
IATA (Cargo)	:	Not regulated as a dangerous good			
IATA (Passenger)	:	Not regulated as a dangerous good			
14.5 Environmental hazards					
Not regulated as a dangerous good					

### Not regulated as a dangerous good 14.6 Special precautions for user

Not applicable

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

### **SECTION 15: Regulatory information**

15.1 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

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REACH Information:	All substances contained - registered by our upstr - registered by us, and/c - excluded from the regunnation - exempted from the reg	rea or ulat	m suppliers, and/or tion, and/or	
REACH - Restrictions on the mar the market and use of certain dar mixtures and articles (Annex XVI	ngerous substances,	:	Conditions of restrictio lowing entries should b Number on list 40: 1-m propanol	be considered:
			Number on list 75:	
REACH - Candidate List of Subst Concern for Authorisation (Article		:	None of the componen (=> 0.1 %).	nts are listed
REACH - List of substances subj (Annex XIV)	ect to authorisation	:	Not applicable	
Regulation (EC) on substances the layer	nat deplete the ozone	:	Not applicable	
Regulation (EU) 2019/1021 on pe tants (recast)	ersistent organic pollu-	:	Not applicable	
Regulation (EU) No 649/2012 of t ment and the Council concerning of dangerous chemicals		:	Not applicable	
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of m jor-accident hazards involving dangerous substances. Not applicable				he control of ma-
Volatile organic compounds :	Law on the incentive tax (VOCV) Volatile organic compound no VOC duties			
	Directive 2010/75/EU of emissions (integrated po Volatile organic compou	ollu	ition prevention and cor	ntrol)

### Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations,

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where applicable.

Contains a substance which is subject to the SZW-list of reproductive toxic substances (Ministry of Social Affairs and Employment).

manganese ferrite black spinel

### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

### **SECTION 16: Other information**

H226 H301 H302 H304 H311 H314 H317 H318 H319 H330 H332 H400 H410 H413	Flammable liquid and vapour. Toxic if swallowed. Harmful if swallowed. May be fatal if swallowed and enters airways. Toxic in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye damage. Causes serious eye irritation. Fatal if inhaled. Harmful if inhaled. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. May cause long lasting harmful effects to aquatic life.	
Full text of other abbreviation		
Acute Tox. Aquatic Acute Aquatic Chronic Asp. Tox. Eye Dam. Eye Irrit. Flam. Liq. Skin Corr. Skin Sens. 2006/15/EC DE TRGS 900 NL WG	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard Serious eye damage Eye irritation Flammable liquids Skin corrosion Skin sensitisation Europe. Indicative occupational exposure limit values Germany. TRGS 900 - Occupational exposure limit values Netherlands. Law on Labour conditions - Occupational Ex sure Limits	
2006/15/EC / TWA DE TRGS 900 / TWA NL WG / TLV-8hr ADR CAS DNEL EC50	Limit Value - eight hours Time Weighted Average Time Weighted Average European Agreement concerning the International Carriag Dangerous Goods by Road Chemical Abstracts Service Derived no-effect level Half maximal effective concentration	ge of

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GHS	:	Globally Harmonized System	
ΙΑΤΑ	:	International Air Transport Association	
IMDG	:	International Maritime Code for Dangerous Goods	
LD50	:	Median lethal dosis (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 Euro and of the Council of 18 December 2006 of istration, Evaluation, Authorisation and Re cals (REACH), establishing a European Cl	oncerning the Reg- striction of Chemi-
SVHC	:	Substances of Very High Concern	<u> </u>
vPvB	:	Very persistent and very bioaccumulative	

### Further 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.

Changes as compared to previous version !

NL / EN