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

Trade name

Sikaflex<sup>®</sup>-291i

### 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 Yapi Kimyasallari A.S. İstanbul Deri Organize Sanayi Bölgesi 2. yol J-7 Parsel / Aydınlı Orhanlı Mevkii 34944 Tuzla / İstanbul Turkey
Telephone	:	+90 216 581 06 00
Telefax	:	+90 216 581 06 99
E-mail address of person responsible for the SDS	:	bilgi@tr.sika.com

### 1.4 Emergency telephone number

+90 216 581 06 00 / 1260 Ulusal Zehir Danışma Merkezi (UZEM): 114

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

Type of product : Mixture

## Classification T.R. SEA No 28848

Skin sensitisation, Category 1

H317: May cause an allergic skin reaction.

### 2.2 Label elements

Signal word

Hazard pictograms

## Labelling T.R. SEA No 28848

:	
:	Warning

: H317

: P101

May cause an allergic skin reaction.

If medical advice is needed, have product container or label at hand.

Hazard statements

Precautionary statements



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	P102 <b>Prevention</b> :	Keep out of reach of	f children.	
	P261	Avoid breathing dust pours/ spray.	t/ fume/ gas/ mist/ va-	
	P280 <b>Response:</b>	Wear protective glov	/es.	
	P302 + P352 Disposal:	IF ON SKIN: Wash v	with plenty of water.	
	P501	Dispose of contents/ ance with local regul	/container in accord- lation.	

Hazardous components which must be listed on the label: Hardener LH (1,6-Hexanedialdimine)

Reaction product of Hexamethylene diisocyanate, oligomers with Mercaptopropyltrimethoxysilane

Pentamethyl piperidylsebacate

## Additional Labelling:

EUH204 Contains isocyanates. May produce an allergic reaction.

## 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.

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

## 3.2 Mixtures

### Hazardous components

Chemical name	CAS-No. EC-No.	T.R. SEA No 28848	Concentration (% w/w)
<** Status of value assignment no	ot permitted: 0000007	131725 ; SAP_EHS_1012_00	04 ; 0391 **> :
Urea,N,N"-(methylenedi-4,1- phenylene)bis[N'-butyl-	77703-56-1 416-600-4	Aquatic Chronic4; H413	>= 2,5 - < 5
Hardener LH (1,6- Hexanedialdimine)	613222-52-9 479-930-8	Eye Dam.1; H318 Skin Sens.1B; H317 STOT SE3; H335	< 1
Reaction product of Hexameth- ylene diisocyanate, oligomers with Mercaptopropyltrimethox- ysilane	192526-20-8 924-669-1	Skin Sens.1A; H317 Aquatic Chronic4; H413	>= 0,1 - < 1
Pentamethyl piperidylsebacate	1065336-91-5	Skin Sens.1A; H317	>= 0,1 - < 0,25



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Contains: bis(1,2,2,6,6-pentamethyl-4- piperidyl) sebacate methyl 1,2,2,6,6-pentamethyl-4- piperidyl sebacate	915-687-0	Aquatic Acute1; H40 Aquatic Chronic1; H	

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

## 4.1 Description of 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 : 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 person. 4.2 Most important symptoms and effects, both acute and delayed Symptoms : Allergic reactions See Section 11 for more detailed information on health effects and symptoms. Risks : sensitising effects May cause an allergic skin reaction.

## 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

## **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media : In case of fire, use water/water spray/water jet/carbon diox-



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	ide/sand/foam/alcohol resistant extinction.	t foam/chemical powder for
5.2 Special hazards arising from t	he substance or mixture	
Hazardous combustion prod- ucts	: No hazardous combustion proc	ducts are known
5.3 Advice for firefighters		
Special protective equipment for firefighters	: In the event of fire, wear self-co	ontained breathing apparatus.
Further information	: Standard procedure for chemic	cal fires.
SECTION 6: Accidental release	e measures	
6.1 Personal precautions, protect	ive equipment and emergency p	rocedures
Personal precautions	: Use personal protective equipm Deny access to unprotected pe	
6.2 Environmental precautions		
Environmental precautions	: Do not flush into surface water	or sanitary sewer system.
6.3 Methods and material for cont	ainment and cleaning up	
Methods for cleaning up	: Soak up with inert absorbent m acid binder, universal binder, s Keep in suitable, closed contain	awdust).

## 6.4 Reference to other sections

For personal protection see section 8.

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

## 7.1 Precautions for safe handling

Advice on safe handling	<ul> <li>Do not breathe vapours or spray mist.</li> <li>Avoid exceeding the given occupational exposure limits (see section 8).</li> </ul>
	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 asth- ma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.



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	Smoking, eating and drinking s plication area. Follow standard hygiene meas products	
Advice on protection against fire and explosion	: Normal measures for prevention	ve fire protection.
Hygiene measures	: Handle in accordance with goo practice. When using do not ea smoke. Wash hands before br	,. ,
7.2 Conditions for safe storage, i	including any incompatibilities	
Requirements for storage areas and containers	: Keep container tightly closed i place. Store in accordance wit	
Other data	: No decomposition if stored and	d applied as directed.
7.3 Specific end use(s)		
Specific use(s)	: Consult most current local Pro use.	duct Data Sheet prior to any

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

## 8.1 Control parameters

<\*\* Status of value assignment not permitted: 000000131725 ; SAP\_EHS\_1012\_006 ; 0039 \*\*>

## Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Reaction product of Hexamethylene diiso- cyanate, oligomers with Mercapto- propyltrimethoxysilane	Workers	Inhalation	Long-term systemic effects	1,7 mg/m3
	Workers	Dermal	Long-term systemic effects	4,7 mg/kg
	Consumers	Inhalation	Long-term systemic effects	0,3 mg/m3
	Consumers	Dermal	Long-term systemic effects	1,7 mg/kg

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name

Environmental Compartment



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Reaction product of Hexameth- ylene diisocyanate, oligomers with Mercaptopropyltrimethoxysilane	Fresh water	0,1 mg/l
	Intermittent use/release	1 mg/l
	Marine water	0,01 mg/l
	Intermittent use/release	1 mg/l
	Fresh water sediment	23,28 mg/kg
	Marine sediment	2,33 mg/kg
	Sewage treatment plant	100 mg/l
	Soil	4,58 mg/kg

## 8.2 Exposure controls

## Personal protective equipment

Eye protection	Safety glasses with side-shields conforming to EN166 Eye wash bottle with pure water
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manufacturer specifications.
	Suitable for short time use or protection against splashes: Butyl rubber/nitrile rubber gloves (0,4 mm) Contaminated gloves should be removed. Suitable for permanent exposure: Viton gloves (0.4 mm), breakthrough time >30 min.
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	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 sufficent to keep the concentrations under the occupational exposure limits then respiration protection measures must be used.



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

## 9.1 Information on basic physical and chemical properties

Appearance	i ai :	paste
Colour	:	various
Odour	:	very faint
Odour Threshold	:	No data available
Flash point	:	> 150 °C
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Lower explosion limit (Vol-%)	:	No data available
Upper explosion limit (Vol-%)	:	No data available
Flammability	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
рН	:	Not applicable
Melting point/range / Freez- ing point	:	No data available
Boiling point/boiling range	:	No data available
Vapour pressure	:	0,01 hPa
Density	:	ca.1,38 g/cm3 at 20 °C
Water solubility	:	insoluble
Partition coefficient: n- octanol/water	:	No data available
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable
Relative vapour density	:	No data available
Evaporation rate	:	No data available



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## 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	:	Stable under recommended storage conditions.
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#### 10.4 Conditions to avoid

Conditions to avoid	: Avoid moisture.
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### 10.5 Incompatible materials

Materials to avoid	: No data available
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### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

## **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

#### Acute toxicity

Not classified based on available information.

## Components:

Reaction product of Hexamethylene diisocyanate, oligomers with Mercaptopropyltrimethoxysilane:

Acute oral toxicity	:	LD50 Oral (Rat): > 2.000 mg/kg Method: OECD Test Guideline 423

Acute dermal toxicity	:	LD50 Dermal (Rat): > 2.000 mg/kg
		Method: OECD Test Guideline 402

## Pentamethyl piperidylsebacate:

Acute oral toxicity	: LD50 Oral (Rat): 3.230 mg/kg
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### 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

Not classified based on available information.

## Reproductive toxicity

Not classified based on available information.

## STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.

### Aspiration toxicity

Not classified based on available information.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

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 aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h		
Toxicity to algae	<ul> <li>EC50 (Raphidocelis subcapitata (freshwater green alga)): &gt; 100 mg/l Exposure time: 72 h</li> </ul>		
Ecotoxicology Assessment Short-term (acute) aquatic hazard	:		
Long-term (chronic) aquatic hazard	:		
Toxicity Data on Soil	:		
Other organisms relevant to	:		



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the environment		

Reaction product of Hexamethylene diisocyanate, oligomers with Mercaptopropyltri- methoxysilane:			
Toxicity to fish	<ul> <li>LC50 (Brachydanio rerio (zebrafish)): &gt; 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203</li> </ul>		
Toxicity to daphnia and other aquatic invertebrates	<ul> <li>EC50 (Daphnia magna (Water flea)): &gt; 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202</li> </ul>		
Toxicity to algae	<ul> <li>EC50 (Pseudokirchneriella subcapitata (algae)): &gt; 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201</li> </ul>		

## Pentamethyl piperidylsebacate:

Toxicity to fish	: LC50 (Fish): 0,97 mg/	/
	Exposure time: 96 h	

## 12.2 Persistence and degradability

## Components:

Urea,N,N"-(methylenedi-4,1-phenylene)bis[N'-butyl-: Impact on Sewage Treat- : ment

### 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 Other adverse effects

### Product:

Additional ecological infor-	:	There is no data available for this product.
mation		



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## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods Product : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe wav. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. European Waste Catalogue : 08 04 09\* waste adhesives and sealants containing organic solvents or other dangerous substances Contaminated packaging : 15 01 10\* packaging containing residues of or contaminated by dangerous substances

## **SECTION 14: Transport information**

### 14.1 UN number

Not regulated as a dangerous good

### 14.2 UN proper shipping name

Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

### 14.4 Packing group

Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

No data available

## **14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable



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## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislat	tion specific for the substance or mix-	
International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors	: Not applicable	
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: None of the components are listed (=> 0.1 %).	
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable	
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable	
Regulation (EC) No 850/2004 on persistent organic pol- lutants	: Not applicable	
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	: Not applicable	
<** Status of value assignment not permitted: 000000131725 ; SAP_EHS_1023_051 ; 0049 **>	<ul> <li>&lt;** Status of value assignment not permitted: 000000131725 ;</li> <li>SAP_EHS_1023_051 ; 0049 **&gt;&lt;** Status of value assignment not per- mitted: 000000131725 ;</li> <li>SAP_EHS_1023_051 ; 0049 **&gt;</li> </ul>	
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	: Conditions of restriction for the fol- lowing entries should be considered: (3)	
	1,2-Benzenedicarboxylic acid, di-C9- 11-branched alkyl esters, C10-rich (52)	
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.		

Not applicable

Other regulations

: <\*\* Status of value assignment not permitted: 000000131725 ; SAP\_EHS\_1023\_020 ; 0047 \*\*>



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## **SECTION 16: Other information**

Full text of H-Statements	
	May cause an allergic skin reaction.
	Causes serious eye damage.
	May cause respiratory irritation.
	Very toxic to aquatic life.
	Very toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
Full text of other abbreviations	6
Aquatic Acute	Short-term (acute) aquatic hazard
Aquatic Chronic	Long-term (chronic) aquatic hazard
	Serious eye damage
	Skin sensitisation
	Specific target organ toxicity - single exposure
ADR	European Agreement concerning the International Carriage of
	Dangerous Goods by Road
	Chemical Abstracts Service
	Derived no-effect level
	Half maximal effective concentration
	Half maximal effective concentration
	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
	Occupational Exposure Limit Persistent, bioaccumulative and toxic
	,
PNEC REACH	Predicted no effect concentration
REACH	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Reg-
	istration, Evaluation, Authorisation and Restriction of Chemi-
	cals (REACH), establishing a European Chemicals Agency
SVHC	Substances of Very High Concern
	Very persistent and very bioaccumulative
	very persistent and very bloaccumulative

## **Classification of the mixture:**

Skin Sens. 1 H317 Calculation method

### **SDS Author**

**Classification procedure:** 



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yetiskin.atilim@tr.sika.com +902165810647 Certification number; gbf01.13.06 certification date ; 24.03.2018

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.

TR / EN