according to Regulation (EC) No. 1907/2006

Sikaflex®-292i



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

1.1 Product identifier

Trade name : Sikaflex®-292i

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

: Sealant/adhesive Product use

1.3 Details of the supplier of the safety data sheet

Company name of supplier Sika Limited

Watchmead Welwyn Garden City

Hertfordshire. AL7 1BQ +44 (0)1707 394444

Telephone Telefax +44 (0)1707 329129 E-mail address of person responsible for the SDS

EHS@uk.sika.com

1.4 Emergency telephone number

+44 (0)1707 363899 (available during office hours).

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word Warning

Hazard statements H317 May cause an allergic skin reaction.

Precautionary statements P101 If medical advice is needed, have product

container or label at hand.

P102 Keep out of reach of children.

Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ va-

pours/ spray.

P280 Wear protective gloves.

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Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.

Disposal:

P501 Dispose of contents/container in accordance

with local regulation.

Hazardous components which must be listed on the label:

- Hardener LH (1,6-Hexanedialdimine)
- Hexamethylene-1,6-diisocyanate homopolymer
- Hardener LI (Isophoronedialdimine)
- 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

Components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
Urea,N,N''-(methylenedi-4,1- phenylene)bis[N'-butyl-	77703-56-1 416-600-4 01-0000016345-72- XXXX	Aquatic Chronic 4; H413	>= 2,5 - < 5
Hardener LH (1,6- Hexanedialdimine)	613222-52-9 479-930-8 01-2119880653-30- XXXX	Eye Dam. 1; H318 Skin Sens. 1B; H317 STOT SE 3; H335	< 1
Hexamethylene-1,6-diisocyanate homopolymer Contains: hexamethylene-di-isocyanate <= 0,3 %	28182-81-2 931-274-8 500-060-2 01-2119485796-17- XXXX	Acute Tox. 4; H332 Skin Sens. 1; H317 STOT SE 3; H335	< 1
Hardener LI (Isophoronedial- dimine)	932742-30-8 700-071-4 01-2119880654-28- XXXX	Skin Sens. 1B; H317 Aquatic Chronic 3; H412	>= 0,25 - < 1

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Reaction product of Hexameth- ylene diisocyanate, oligomers with Mercaptopropyltrimethoxysilane	192526-20-8 924-669-1 01-2120768758-32- XXXX	Skin Sens. 1A; H317	>= 0,1 - < 1
Pentamethyl piperidylsebacate Contains: bis(1,2,2,6,6-pentamethyl-4- piperidyl) sebacate methyl 1,2,2,6,6-pentamethyl-4- piperidyl sebacate	1065336-91-5 915-687-0 01-2119491304-40- XXXX	Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,1 - < 0,25

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.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

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

ide/sand/foam/alcohol resistant foam/chemical powder for

extinction.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion prod- : No hazardous combustion products are known

5.3 Advice for firefighters

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

for firefighters

Further information Standard procedure for chemical fires.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

Deny access to unprotected persons.

6.2 Environmental precautions

Environmental precautions Do not flush into surface water or sanitary sewer system.

6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, Methods for cleaning up

acid binder, universal binder, sawdust).

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

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

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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.

Follow standard hygiene measures when handling chemical

products

Advice on protection against

fire and explosion

Normal measures for preventive fire protection.

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.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Keep container tightly closed in a dry and well-ventilated

place. Store in accordance with local regulations.

Further information on stor-

age stability

No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Consult most current local Product Data Sheet prior to any

use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters *	Basis *
Hexamethylene-1,6-diisocyanate homopolymer	28182-81-2	TWA	0,02 mg/m3 (NCO)	GB EH40
Further information	asthmagens and airway hyper-res mechanism. One exposure to the respiratory symprunny nose to as will become hyp those who are lit can cause occup which may triggrairway hyper-res selves. The latter sensitisers., Whes that can cause is not possible, to prevent worker can cause occup.	can cause occupation of respiratory sensitises sponsiveness via an ince the airways have be substance, sometime otoms. These symptons of the symptons of the symptoms of the symptoms of as sponsiveness, but which substances are not erever it is reasonably se occupational asthmathe primary aim is to a term of the symptoms of the primary aim is to a term of the primary aim is to a t	nal asthma (also knirs) can induce a sta mmunological, irritar pecome hyper-respo is even to tiny quant ms can range in sev is who are exposed to responsive. 54 Sul do be distinguished for sthma in people with ich do not include the classified asthmage y practicable, exposina a should be preventable, exposina per-responsive. For stHH requires that ex	te of specific and or other consive, further sities, may cause the consistent of a sensitiser stances that from substances a pre-existing the disease themens or respiratory the consultation of control substances that the consultation of control substances the consultation of control substances that the control substances the

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	term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate for all employees exposed or liable to be exposed to a substance which may cause occupational asthma and there should be appropriate consultation with an occupational health professional over the degree of risk and level of surveillance., Capable of causing occupational asthma., The 'Sen' notation in the list of WELs has been assigned only to those substances which may cause occupational asthma.	
Further information	notation in the list of WELs has been assigned only to those substances	

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

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Reaction product of Hexamethylene diisocy- anate, oligomers with Mercaptopropyltri- methoxysilane 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	Value
Reaction product of Hexamethylene	Fresh water	0,1 mg/l
diisocyanate, oligomers with Mercap-		
topropyltrimethoxysilane		

according to Regulation (EC) No. 1907/2006

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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 ap-

proved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manu-

facturer 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 - Methods for determining inhalation exposure). This applies in particular 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.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : paste

Colour : various

Odour : odourless

Odour Threshold : No data available

according to Regulation (EC) No. 1907/2006

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pH : Not applicable

Melting point/range / Freezing :

ooint

No data available

Boiling point/boiling range : No data available

Flash point : > 101 °C

Method: closed cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapour pressure : 0,01 hPa

Relative vapour density : No data available

Density : ca. 1,3 g/cm3 (20 °C)

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : Not applicable

Viscosity, kinematic : Not applicable

Explosive properties : No data available

Oxidizing properties : No data available

9.2 Other information

No data available

according to Regulation (EC) No. 1907/2006

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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.

10.4 Conditions to avoid

Conditions to avoid Avoid moisture.

10.5 Incompatible materials

Materials to avoid No data available

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:

Hexamethylene-1,6-diisocyanate homopolymer:

: LD50 Oral (Rat): > 2.500 mg/kg Acute oral toxicity

Acute inhalation toxicity Acute toxicity estimate: 1,5 mg/l

> Test atmosphere: dust/mist Method: Expert judgement

Acute dermal toxicity : LD50 Dermal (Rat): > 2.000 mg/kg

Hardener LI (Isophoronedialdimine):

Acute oral toxicity LD50 Oral (Rat): > 2.000 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg

Reaction product of Hexamethylene diisocyanate, oligomers with Mercaptopropyltrimethox-

ysilane:

Acute oral toxicity : LD50 Oral (Rat): > 2.000 mg/kg

Method: OECD Test Guideline 423

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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

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

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-:

: LC50 (Brachydanio rerio (zebrafish)): > 250 mg/l Toxicity to fish

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 EC50 (Raphidocelis subcapitata (freshwater green alga)): >

100 mg/l

Exposure time: 72 h

according to Regulation (EC) No. 1907/2006

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Hardener LI (Isophoronedialdimine):

Toxicity to fish : LC50 (Fish): 87,2 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): > 100 mg/l

Exposure time: 48 h

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 180,4 mg/l

Exposure time: 72 h

Reaction product of Hexamethylene diisocyanate, oligomers with Mercaptopropyltrimethoxysilane:

Toxicity to fish LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (algae)): > 100 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Pentamethyl piperidylsebacate:

Toxicity to fish LC50 (Fish): 0,97 mg/l

Exposure time: 96 h

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:

This substance/mixture contains no components considered Assessment

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-

mation

: There is no data available for this product.

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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 way. 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

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of Substances of Very High : None of the components are listed

Concern for Authorisation (Article 59). (=> 0.1 %).

REACH - List of substances subject to authorisation : Not applicable

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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 following entries should be considered: 1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich (Number on list 52)

REACH Information: All substances contained in our Products are

- registered by our upstream suppliers, and/or

- registered by us, and/or

excluded from the regulation, and/orexempted from the registration.

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

Volatile organic compounds : Law on the incentive tax for volatile organic compounds

(VOCV) no VOC duties

Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)

Not applicable

If other regulatory information applies that is not already provided elsewhere in the Safety Data Sheet, then it is described in this subsection.

Health, safety and environmental regulation/legislation specific for the substance or mixture: Environmental Protection Act 1990 & Subsidiary Regulations Health and Safety at Work Act 1974 & Subsidiary Regulations Control of Substances Hazardous to Health Regulations

(COSHH)

May be subject to the Control of Major Accident Hazards

Regulations (COMAH), and amendments.

15.2 Chemical safety assessment

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

SECTION 16: Other information

Full text of H-Statements

H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H332	: Harmful if inhaled.

. Haiiiliai ii iiiliaica

H335 : May cause respiratory irritation.

H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.
 H412 : Harmful to aquatic life with long lasting effects.
 H413 : May cause long lasting harmful effects to aquatic life.

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Full text of other abbreviations

Acute Tox. Acute toxicity

Aquatic Acute Short-term (acute) aquatic hazard Aquatic Chronic Long-term (chronic) aquatic hazard

Eye Dam. Serious eye damage Skin Sens. Skin sensitisation

STOT SE Specific target organ toxicity - single exposure GB EH40 UK. EH40 WEL - Workplace Exposure Limits

Long-term exposure limit (8-hour TWA reference period) GB EH40 / TWA GB EH40 / STEL Short-term exposure limit (15-minute reference period) ADR

European Agreement concerning the International Carriage of

Dangerous Goods by Road

CAS Chemical Abstracts Service Derived no-effect level **DNEL**

Half maximal effective concentration EC50

Globally Harmonized System **GHS**

International Air Transport Association IATA

International Maritime Code for Dangerous Goods **IMDG**

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)

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 Predicted no effect concentration **PNEC**

Regulation (EC) No 1907/2006 of the European Parliament **REACH**

> 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

Further information

Classification of the mixture: Classification procedure:

Skin Sens. 1 H317 Calculation method

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!

GB / EN

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