

Version 4.0

Print Date 30.08.2024

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

#### **1.1 Product identifier**

Trade name

: SikaForce<sup>®</sup>-840 (B) Part B

#### 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)

Acute toxicity, Category 4	H332: Harmful if inhaled.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Respiratory sensitisation, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Carcinogenicity, Category 2	H351: Suspected of causing cancer.
Specific target organ toxicity - single ex- posure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through pro- longed or repeated exposure if inhaled.

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Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms

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#### 2.2 Label elements

Signal word	: Danger
Hazard statements	<ul> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H319 Causes serious eye irritation.</li> <li>H332 Harmful if inhaled.</li> <li>H334 May cause allergy or asthma symptoms or breath- ing difficulties if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H351 Suspected of causing cancer.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure if inhaled.</li> </ul>
Precautionary statements	: <b>Prevention:</b> P201 Obtain special instructions before use. P260 Do not breathe mist or vapours. P264 Wash skin thoroughly after handling. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
	Response:
	P304 + P340 + P312IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.P342 + P311If experiencing respiratory symptoms: Call a
	POISON CENTER/ doctor.

#### Hazardous components which must be listed on the label:

4,4'-Methylenediphenyl diisocyanate, oligomers

4,4'-methylenediphenyl diisocyanate

### **Additional Labelling**

"As from 24 August 2023 adequate training is required before industrial or professional use."

#### 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.

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.





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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.

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

#### 3.2 Mixtures

Components			
Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
4,4`-Methylenediphenyl diisocya- nate, oligomers	25686-28-6 500-040-3 01-2119457013-49- XXXX	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H315 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 Acute toxicity esti- mate Acute inhalation tox- icity (dust/mist): 1,5 mg/l	>= 40 - < 60

# SAFETY DATA SHEET

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

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4,4'-methylenediphenyl diisocya- nate	101-68-8 202-966-0 01-2119457014-47- XXXX	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 specific concentration limit Eye Irrit. 2; H319 >= 5 %	>= 0,5 - < 1
		specific concentration limit STOT SE 3; H335 >= 5 %	
		specific concentration limit Skin Irrit. 2; H315 >= 5 %	
		specific concentration limit Resp. Sens. 1; H334 >= 0,1 %	
		Acute toxicity esti- mate	
For explanation of abbreviations se		Acute inhalation tox- icity (dust/mist): 1,5 mg/l	

For explanation of abbreviations see section 16.

:

## **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.

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If inhaled		to fresh air. Ilt a physician after significant ex	xposure.
In case of skin contact	Wash	off contaminated clothing and sh off with soap and plenty of wate ptoms persist, call a physician.	
In case of eye contact	Remo Keep	diately flush eye(s) with plenty o ve contact lenses. eye wide open while rinsing. irritation persists, consult a spec	
If swallowed	Rinse Do no	t induce vomiting without medica mouth with water. t give milk or alcoholic beverage give anything by mouth to an u	es.
2 Most important symptoms	and effects,	both acute and delayed	
Symptoms	Cougl Respi Allerg Exces Erythe Heada Derma See S	ratory disorder ic reactions sive lachrymation ema ache	rmation on health effects
Risks		t effects ising effects	
	May o Cause Harmi May o ties if May o Suspe May o	es skin irritation. ause an allergic skin reaction. es serious eye irritation. ful if inhaled. ause allergy or asthma sympton inhaled. ause respiratory irritation. ected of causing cancer. ause damage to organs through ure if inhaled.	
3 Indication of any immedia	e medical at	tention and special treatment	needed
Treatment		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
ucts	

#### 5.3 Advice for firefighters

Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.
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. If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for 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.

#### 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	: Avoid exceeding the given occupational exposure limits (see	е
	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 asth	h-

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	ma, allergies, chronic or recurrent respin not be employed in any process in which used. Smoking, eating and drinking should be plication area. Provide sufficient air exchange and/or e Follow standard hygiene measures whe products	h this mixture is being prohibited in the ap- xhaust in work rooms.
Advice on protection against	Normal measures for preventive fire pro	tection.
Hygiene measures	Handle in accordance with good industr practice. When using do not eat or drink smoke. Wash hands before breaks and	. When using do not
7.2 Conditions for safe storage, in	cluding any incompatibilities	
• ·	Keep container tightly closed in a dry ar place. Store in accordance with local re	
Further information on stor-	No decomposition if stored and applied	as directed.
7.3 Specific end use(s)		
Specific use(s)	Cleaning with aprotic polar solvents must Consult most current local Product Data use.	

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

#### 8.1 Control parameters

#### **Occupational Exposure Limits**

• •				
Components	CAS-No.	Value type (Form	Control parame-	Basis *
		of exposure)	ters *	

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

#### **Engineering measures**

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

#### Personal protective equipment

Eye/face 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

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		chemical products. Reference number EN 3 facturer specifications.	74. Follow manu-
		Suitable for short time use or protection aga Butyl rubber/nitrile rubber gloves (> 0,1 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 long-sleeved working clothing, long trousers and protective boots are additionaly recomm and stirring work.	). Rubber aprons
Respiratory protection	:	In case of inadequate ventilation wear respir Respirator selection must be based on know exposure levels, the hazards of the product ing limits of the selected respirator. Use a properly fitted NIOSH approved air-pur respirator complying with an approved stand sessment indicates this is necessary. organic vapor filter (Type A) A1: < 1000 ppm; A2: < 5000 ppm; A3: < 100 Ensure adequate ventilation. This can be ac exhaust extraction or by general ventilation. ods for determining inhalation exposure). The ticular to the mixing / stirring area. In case the to keep the concentrations under the occupate limits then respiration protection measures of Ensure adequate ventilation, especially in con-	vn or anticipated and the safe work- urifying or air-fed dard if a risk as- 000 ppm chieved by local (EN 689 - Meth- his applies in par- his is not sufficent ational exposure nust be used.

#### Environmental exposure controls

General advice	: Do not flush into surface water or sanitary sewer system.
	If the product contaminates rivers and lakes or drains inform
	respective authorities.

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

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

Physical state Appearance Colour	:	liquid paste black
Odour	:	odourless
Melting point/ range / Freez- ing point	:	No data available

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Boiling point/boiling range	:	No data available		
Flammability (solid, gas)	:	No data available		
Upper/lower flammability or o	exp	blosive limits		
Upper explosion limit / Upper flammability limit	:	No data available		
Lower explosion limit / Lower flammability limit	:	No data available		
Flash point	:	> 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	:	ca. 10.000 mPa.s (20 °C)		
Viscosity, kinematic	:	> 20,5 mm2/s (40 °C)		
Solubility(ies)				
Water solubility	:	insoluble		
Partition coefficient: n- octanol/water	:	No data available		
Vapour pressure	:	0,01 hPa		
Density	:	ca. 1,27 g/cm3 (20 °C)		
Relative vapour density	:	No data available		
Particle characteristics	:	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	:	No hazards to be specially mentioned
riazai uous reactions		no nazarus to be specially mentior

#### 10.4 Conditions to avoid

#### **10.5 Incompatible materials**

#### **10.6 Hazardous decomposition products**

No hazardous decomposition products are known.

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

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

#### Acute toxicity

Harmful if inhaled.

#### **Components:**

#### 4,4`-Methylenediphenyl diisocyanate, oligomers:

Acute oral toxicity	:	LD50 Oral (Rat): > 5.000 mg/kg
Acute inhalation toxicity	:	LC50: 1,5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgement
		Acute toxicity estimate: 1,5 mg/l Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	:	LD50 Dermal (Rabbit): > 9.400 mg/kg



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

Acute toxicity estimate: 1,5 mg/l Test atmosphere: dust/mist Method: Calculation method

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

#### Respiratory sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### Germ cell mutagenicity

Not classified due to lack of data.

#### Carcinogenicity

Suspected of causing cancer.

#### **Reproductive toxicity**

Not classified due to lack of data.

#### STOT - single exposure

May cause respiratory irritation.

#### STOT - repeated exposure

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

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#### 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

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(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

No data available

#### 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

<u>Product:</u> 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-	:	There is no data available for this product.
mation		

## **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.

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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.

## **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			
14.6 Special precautions for user			

#### 14.6 Special precautions for user

Not applicable

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

Not applicable for product as supplied.

Country NL 10000020268

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: Not applicable

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

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## **SECTION 15: Regulatory information**

International Chemical Weapons Convention (CWC)

Schedules of Toxic Chemicals and Precursors					
REACH Information: - registered by our upstr - registered by us, and/o - excluded from the regu - exempted from the reg			ream suppliers, and/or or ulation, and/or		
REACH - Restrictions on the man the market and use of certain dan mixtures and articles (Annex XVII	igerous substances,	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 3		
			Number on list 52: 1,2- Benzenedicarboxylic acid, di-C9-11- branched alkyl esters, C10-rich		
			Number on list 56: 4,4`- Methylenediphenyl diisocyanate, oligomers, 4,4'-methylenediphenyl diisocyanate		
			Number on list 74: 4,4`- Methylenediphenyl diisocyanate, oligomers, 4,4'-methylenediphenyl diisocyanate		
			Number on list 75:		
REACH - Candidate List of Subst Concern for Authorisation (Article		:	None of the components are listed (=> 0.1 %).		
REACH - List of substances subje (Annex XIV)	ect to authorisation	:	Not applicable		
Regulation (EC) on substances th layer	nat deplete the ozone	:	Not applicable		
Regulation (EU) 2019/1021 on pe tants (recast)	ersistent organic pollu-	:	Not applicable		



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Regulation (EU) No 649/2012 ment and the Council concern of dangerous chemicals		cable
Seveso III: Directive 2012/18/ jor-accident hazards involving	EU of the European Parliament and of the dangerous substances. Not applicable	Council on the control of ma-
Volatile organic compounds	: Law on the incentive tax for volatile o (VOCV) no VOC duties	rganic compounds
	Directive 2010/75/EU of 24 Novembe emissions (integrated pollution preve Not applicable	

#### 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**

H315 H317 H319 H332 H334 H335 H351 H373	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficul ties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeate exposure if inhaled.	
Full text of other abbreviation		
Acute Tox.	Acute toxicity	
Carc.	Carcinogenicity	
Eye Irrit.	Eye irritation	
Resp. Sens.	Respiratory sensitisation	
Skin Irrit.	Skin irritation	
Skin Sens.	Skin sensitisation	
STOT RE	Specific target organ toxicity - repeated exposure	
STOT SE	Specific target organ toxicity - single exposure	
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	

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IMDG LD50		ternational Maritime Code for Dangerou edian lethal dosis (the amount of a mate	
LC50	te	nce, which causes the death of 50% (on st animals) edian lethal concentration (concentratio	,
MARPOL	pe	r that kills 50% of the test animals durin priod) ternational Convention for the Preventic	0
OEL	: O	nips, 1973 as modified by the Protocol occupational Exposure Limit	of 1978
PBT PNEC		ersistent, bioaccumulative and toxic edicted no effect concentration	
REACH	: Ro ar ist	egulation (EC) No 1907/2006 of the Eur of of the Council of 18 December 2006 ration, Evaluation, Authorisation and Re Is (REACH), establishing a European C	concerning the Reg- estriction of Chemi-
SVHC vPvB	: Si	ubstances of Very High Concern ery persistent and very bioaccumulative	

#### **Further information**

Classification of the	mixture:	Classification procedure:		
Acute Tox. 4	H332	Calculation method		
Skin Irrit. 2	H315	Calculation method		
Eye Irrit. 2	H319	Calculation method		
Resp. Sens. 1	H334	Calculation method		
Skin Sens. 1	H317	Calculation method		
Carc. 2	H351	Calculation method		
STOT SE 3	H335	Calculation method		
STOT RE 2	H373	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 !

NL / EN