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

1.1 Product identifier

Trade name

: SikaForce[®]-803 L45 (B) Part B

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

Product use : Adhesive, Product is not intended for consumer use

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 exposure, 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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2.2 Label elements

Labelling (REGULATION (EC Hazard pictograms) No 1272/2008)	!
Signal word	Danger	
Hazard 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 difficulties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through pro- longed or repeated exposure if inhaled.
Precautionary statements :	Prevention: P201 P260 P264 P280 Response: P304 + P340 + P342 + P311	Obtain special instructions before use. Do not breathe mist or vapours. Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection. P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. If 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

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

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.	Classification	Concentration
	EC-No.		(% w/w)
	Registration number		
4,4`-Methylenediphenyl diisocya-	25686-28-6	Acute Tox. 4; H332	>= 20 - < 25
nate, oligomers	500-040-3	Skin Irrit. 2; H315	
	01-2119457013-49-	Eye Irrit. 2; H319	
	XXXX	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	

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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 % STOT SE 3; H335 >= 5 % Skin Irrit. 2; H315 >= 5 % Resp. Sens. 1; H334 >= 0,1 % Acute toxicity esti- mate Acute inhalation tox- icity (dust/mist): 1,5	>= 0,5 - < 1
4098-71-9 223-861-6 01-2119490408-31- XXXX	Acute Tox. 1; H330 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system) Aquatic Chronic 2; H411 specific concentration limit Resp. Sens. 1; H334 >= 0,5 % Skin Sens. 1; H317 >= 0,5 % Acute toxicity esti- mate Acute inhalation tox-	>= 0,1 - < 0,25
	202-966-0 01-2119457014-47- XXXX 4098-71-9 223-861-6 01-2119490408-31-	$\begin{array}{c} 202-966-0\\ 01-2119457014-47-\\ XXXX \end{array} \qquad Skin Irrit. 2; H315\\ Eye Irrit. 2; H319\\ Resp. Sens. 1; H334\\ Skin Sens. 1; H317\\ Carc. 2; H351\\ STOT SE 3; H335\\ (Respiratory system))\\ STOT RE 2; H373 \end{array}$

For explanation of abbreviations see section 16.

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SECTION 4: First aid measures

4.1	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	:	Immediately flush eye(s) with plenty of water. 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 an	d e	ffects, both acute and delayed	
	Symptoms	:	Asthmatic appearance Cough Respiratory disorder Allergic reactions Excessive lachrymation Erythema Headache Dermatitis See Section 11 for more detailed information on health effects and symptoms.	
	Risks	:	irritant effects sensitising effects 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 repeated exposure if inhaled.	



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Treatment	:	Treat symptomatically.
SECTION 5: Firefighting meas	ur	es
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	e 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 apparatus.
Further information	:	Standard procedure for chemical fires.
SECTION 6: Accidental releas	e r	neasures
6.1 Personal precautions, protect	tive	e 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 con	tai	nment 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.

4.3 Indication of any immediate medical attention and special treatment needed

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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Advice on safe handling	 Avoid exceeding the given occupational exsection 8). Do not get in eyes, on skin, or on clothing. For personal protection see section 8. Persons with a history of skin sensitisation ma, allergies, chronic or recurrent respirat not be employed in any process in which t used. Smoking, eating and drinking should be pr plication area. Provide sufficient air exchange and/or exh Follow standard hygiene measures when b products 	n problems or asth- ory disease should his mixture is being rohibited in the ap- aust in work rooms.
Advice on protection against fire and explosion	: Normal measures for preventive fire protection	ction.
Hygiene measures	 Handle in accordance with good industrial practice. When using do not eat or drink. N smoke. Wash hands before breaks and at 	When using do not
7.2 Conditions for safe storage, i	cluding any incompatibilities	
Requirements for storage areas and containers	: Keep container tightly closed in a dry and place. Store in accordance with local regu	
Further information on stor- age stability	: No decomposition if stored and applied as	directed.
7.3 Specific end use(s)		

Specific use(s)

: Cleaning with aprotic polar solvents must be avoided. Consult most current local Product Data Sheet prior to any use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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

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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 (> 0,1 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 EN ISO 20345, long-sleeved working clothing, long trousers). Rubber aprons and protective boots are additionaly 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. Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk as- sessment indicates this is necessary. 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. Ensure adequate ventilation, especially in confined areas.

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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 / Freezing 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	ovr	losivo limits
Upper explosion limit / Upper explosion limit / Upper flammability limit	-	
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. 300.000 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. 1,21 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.

10.4 Conditions to avoid

Conditions to avoid : No data available

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 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

4,4'-methylenediphenyl diisocyanate:

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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 Test atmosphere: dust/mist Method: Calculation method	
3-isocyanatomethyl-3,5,5	-trimethylcyclohexyl isocyanate:	
Acute oral toxicity	: LD50 Oral (Rat): 4.814 mg/kg	
Acute inhalation toxicity	: LC50 (Rat): 0,031 mg/l Exposure time: 4 h Test atmosphere: dust/mist	
	Acute toxicity estimate: 0,031 mg/l Test atmosphere: dust/mist Method: Calculation method	
Acute dermal toxicity	: LD50 Dermal (Rat): > 7.000 mg/kg	
Skin corrosion/irritation Causes skin irritation.		
Serious eye damage/eye Causes serious eye irritatio		
Respiratory or skin sensi	tisation	
Skin sensitisation May cause an allergic skin	reaction.	
Respiratory sensitisation May cause allergy or asthm	a symptoms or breathing difficulties if inhaled.	
Germ cell mutagenicity Not classified due to lack o	f data.	
Carcinogenicity Suspected of causing canc	er	
Reproductive toxicity	o	
Not classified due to lack o	f data.	
STOT - single exposure		
May cause respiratory irrita	tion.	
STOT - repeated exposur		
May cause damage to orga	ins through prolonged or repeated exposure if inha	lled.

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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 (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

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.

12.7 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 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.

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 cl		
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

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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					
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/or - exempted from the registration.					
REACH - Restrictions on the m the market and use of certain of mixtures and articles (Annex X	langerous substances,	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 75, 3		
			4,4`-Methylenediphenyl diisocya- nate, oligomers (Number on list 74, 56) 4,4'-methylenediphenyl diisocyanate (Number on list 74, 56) 3-isocyanatomethyl-3,5,5- trimethylcyclohexyl isocyanate (Number on list 74)		
REACH - Candidate List of Sul Concern for Authorisation (Arti		:	None of the components are listed (=> 0.1 %).		
REACH - List of substances su (Annex XIV)	bject to authorisation	:	Not applicable		
Regulation (EC) No 1005/2009 plete the ozone layer	on substances that de-	:	Not applicable		
Regulation (EU) 2019/1021 on tants (recast)	persistent organic pollu-	:	Not applicable		

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Regulation (EC) No 649/2012 of t ment and the Council concerning of dangerous chemicals	•	Not applicable
Seveso III: Directive 2012/18/EU jor-accident hazards involving dar	•	t and of the Council on the control
Volatile organic compounds :	Law on the incentive tax for (VOCV) no VOC duties	or volatile organic compounds
		4 November 2010 on industrial ution prevention and control)

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 H330 H332 H334 H335 H351		Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Fatal if inhaled. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficul- ties if inhaled. May cause respiratory irritation. Suspected of causing cancer.
H373	:	May cause damage to organs through prolonged or repeated
H411	:	exposure if inhaled. Toxic to aquatic life with long lasting effects.
Full text of other abbreviat	ions	
Acute Tox. Aquatic Chronic Carc. Eye Irrit.	:	Acute toxicity Long-term (chronic) aquatic hazard Carcinogenicity
Resp. Sens. Skin Irrit. Skin Sens. STOT RE STOT SE ADR		Eye irritation Respiratory sensitisation Skin irritation Skin sensitisation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure European Agreement concerning the International Carriage of Dangerous Goods by Road

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0110		
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 ir air that kills 50% of the test animals during the observation period)	I
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 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	
vPvB	: Very persistent and very bioaccumulative	

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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