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

1.1 Product identifier

Trade name	:	SikaForce®-420 L45 / SikaForce®-010 (formerly Si- kaForce-7720 L45 / 7010) Part B
Substance name	:	Diphenylmethanediisocyanate, isomeres and homologues
CAS-No.	:	9016-87-9

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

Product use	:	Sealant/adhesive
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1.3 Details of the supplier of the safety data sheet

Company name of supplier	: Sika Poland Spółka z o.o.
	Karczunkowska 89
	02-871 Warszawa
Telephone	: +48 22 27 28 700
Telefax	: +48 22 27 28 800
E-mail address of person responsible for the SDS	: EHS@pl.sika.com

1.4 Emergency telephone number

112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 12 Acute toxicity, Category 4	272/2008) 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.		



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Specific target organ toxicity - repeated exposure, Category 2

H373: May cause damage to organs through prolonged or repeated exposure if inhaled.

2.2 Label elements

Labelling (REGULATION	(EC)	No 1272/2008)	
Hazard pictograms	:		!
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	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.
		Response: P304 + P340 + P342 + P311	

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.



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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.

SECTION 3: Composition/information on ingredients

3.1 Substances

CAS-No. : 9016-87-9

Components

Chemical name	CAS-No. EC-No.	Concentration (% w/w)	M-Factor, SCL, ATE
Diphenylmethanediisocya- nate, isomeres and homo- logues	9016-87-9 Not Assigned	100	specific concentration limit Eye Irrit. 2; H319 >= 5 % Resp. Sens. 1; H334 >= 0,1 % Skin Irrit. 2; H315 >= 5 % STOT SE 3; H335 >= 5 %

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.

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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	s person.		
4.2 Most important symptoms and	effects, 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 and symptoms.	health effects		
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 breat ties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolonged exposure if inhaled.	-		
4.3 Indication of any immediate me	dical 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 dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction.



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5.2 Special hazards arising from the	e substance or mixture			
Hazardous combustion prod- ucts	No hazardous combustion products are know	n		
5.3 Advice for firefighters				
Special protective equipment for firefighters	In the event of fire, wear self-contained breath	ing apparatus.		
Further information	Standard procedure for chemical fires.			
SECTION 6: Accidental release	measures			
6.1 Personal precautions, protecti	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 sev If the product contaminates rivers and lakes o respective authorities.			
6.3 Methods and material for containment and cleaning up				
Methods for cleaning up	Soak up with inert absorbent material (e.g. sa acid binder, universal binder, sawdust). Keep in suitable, closed containers for dispose	-		
6.4 Reference to other sections				
For personal protection see sec	ion 8.			

SECTION 7: Handling and storage

7.1 Precautions for safe handling

: Avoid formation of aerosol.
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 asth- ma, allergies, chronic or recurrent respiratory disease should 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.
Provide sufficient air exchange and/or exhaust in work rooms. Follow standard hygiene measures when handling chemical



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		products	
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.	
Hygiene measures	:	Handle in accordance with good industrial hygier practice. When using do not eat or drink. When using smoke. Wash hands before breaks and at the er	using do not
7.2 Conditions for safe storage, i	nc	luding any incompatibilities	
Requirements for storage areas and containers	:	Keep container tightly closed in a dry and well-ve place. Containers which are opened must be car sealed and kept upright to prevent leakage. Store ance with local regulations.	efully re-
Further information on stor- age stability	:	No decomposition if stored and applied as direct	ed.
7.3 Specific end use(s)			
Specific use(s)	:	Cleaning with aprotic polar solvents must be avo Consult most current local Product Data Sheet p 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 *
Diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	NDS	0,03 mg/m3	PL OEL
		NDSch	0,09 mg/m3	PL OEL

*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 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 facturer specifications.	EN 374. Follow manu-
	Suitable for short time use or protectio Butyl rubber/nitrile rubber gloves (> 0, Contaminated gloves should be remov Suitable for permanent exposure: Viton gloves (0.4 mm), breakthrough time >30 min.	1 mm)
Skin and body protection	: Protective clothing (e.g. Safety shoes a long-sleeved working clothing, long tro and protective boots are additionally re and stirring work.	ousers). Rubber aprons
Respiratory protection	 In case of inadequate ventilation wear Respirator selection must be based on exposure levels, the hazards of the pro- ing limits of the selected respirator. Use a properly fitted NIOSH approved respirator complying with an approved sessment indicates this is necessary. organic vapor filter (Type A) A1: < 1000 ppm; A2: < 5000 ppm; A3: Ensure adequate ventilation. This can exhaust extraction or by general ventils ods for determining inhalation exposur ticular to the mixing / stirring area. In c to keep the concentrations under the o limits then respiration protection measure Ensure adequate ventilation, especially 	 known or anticipated oduct and the safe work- air-purifying or air-fed standard if a risk as- < 10000 ppm be achieved by local ation. (EN 689 - Meth- re). This applies in par- case this is not sufficent occupational exposure ures must 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 Colour	:	liquid brown
Odour	:	slight
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	exc	losive limits	
Upper explosion limit / Upper flammability limit	-		
Lower explosion limit / Lower flammability limit	:	No data available	
Flash point	:	> 200 °C Method: closed cup	
Auto-ignition temperature	:	No data available	
Decomposition temperature	:	No data available	
рН	:	No data available	
Viscosity			
Viscosity, dynamic	:	ca. 250 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. 1,24 g/cm3 (20 °C)	
Relative vapour density	:	No data available	
Particle characteristics	:	No data available	0/40



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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
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10.5 Incompatible materials

Materials to avoid : N	o 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. <u>Components:</u>		
Diphenylmethanediisocya	nate	isomeres and homologues:
Acute oral toxicity	:	LD50 Oral (Rat): > 10.000 mg/kg
Acute inhalation toxicity	:	LC50: 1,5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgement Assessment: The component/mixture is moderately toxic after short term inhalation.
Acute dermal toxicity	:	LD50 Dermal (Rabbit): > 9.400 mg/kg



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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 based on available information.

Carcinogenicity Suspected of causing cancer.

Reproductive toxicity Not classified based on available information.

STOT - single exposure

May cause respiratory irritation.

STOT - repeated exposure

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

Aspiration toxicity

Not classified based on available information.

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:

Diphenylmethanediisocyanate, isomeres and homologues:

Toxicity to fish:LC50 (Brachydanio rerio (zebrafish)): > 1.000 mg/lExposure time: 96 h



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Toxicity to algae/aquatic plants	: EC50 (Desmodesmus subspicatus (green mg/l Exposure time: 72 h	algae)): > 1.640
12.2 Persistence and degradabi No data available	ility	
12.3 Bioaccumulative potential No data available		
12.4 Mobility in soil No data available		
12.5 Results of PBT and vPvB a	assessment	
Product:		
Assessment	: This substance/mixture contains no comport to be either persistent, bioaccumulative and very persistent and very bioaccumulative (very bioaccumulative)	d toxic (PBT), or
	0.1% or higher	
12.6 Endocrine disrupting prop	-	
12.6 Endocrine disrupting prop <u>Product:</u>	-	
	-	es according to ated regulation
Product:	erties : The substance/mixture does not contain co ered to have endocrine disrupting propertie REACH Article 57(f) or Commission Delega (EU) 2017/2100 or Commission Regulation	es according to ated regulation
<u>Product:</u> Assessment	erties : The substance/mixture does not contain co ered to have endocrine disrupting propertie REACH Article 57(f) or Commission Delega (EU) 2017/2100 or Commission Regulation	es according to according to according to

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

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		protection and waste disposal legislation and an local authority requirements. Avoid dispersal of spilled material and runoff and soil, waterways, drains and sewers.	, ,
European Waste Catalogue	:	08 05 01* waste isocyanates	
Contaminated packaging	:	15 01 10* packaging containing residues of or c by dangerous substances	ontaminated

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	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.



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SECTION 15: Regulatory information

15.1	5.1 Safety, health and environmental regulations/legislat REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)			specific for the substance or mixture Conditions of restriction for the fol- lowing entries should be considered: Number on list 3
				Diphenylmethanediisocyanate, iso- meres and homologues (Number on list 74, 56)
	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 de- plete the ozone layer			Not applicable
	Regulation (EU) 2019/1021 on petants (recast)	ersistent organic pollu-	:	Not applicable
		C) No 649/2012 of the European Parlia- Council concerning the export and import chemicals		Not applicable
	REACH Information:	All substances contain - registered by our ups - registered by us, and - excluded from the registered f	strea I/or gula	m suppliers, and/or tion, and/or
	Seveso III: Directive 2012/18/EU jor-accident hazards involving dar	nent	and of the Council on the control of ma-	
	Volatile organic compounds :	Law on the incentive ta (VOCV)	ax fo	or volatile organic compounds



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no VOC duties

Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Not applicable

Other regulations:

Act of February 25, 2011 on chemical substances and their mixtures (i.e. Journal of Laws of 2020, item 2289)

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Official Journal of the European Union L 353 from 31.12.2008) with further adaptation to technical progress (ATP).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Official Journal of the European Union L 396 from 30.12.2006, as amended).

Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Ordinance of the Minister of Family, Labour and Social Policy of 12 June 2018 concerning the highest allowable concentrations and levels of the agents harmful for health in the workplace (Dz.U 2018 pos 1286, with later amendments).

Ordinance of the Minister of Health of 2nd February 2011 concerning tests and measurement of agents harmful for health in the workplace (Dz. U. Nr. 33, item 166 with later amendments).

Ordinance of the Minister of Health of 30th December 2004 on the health and safety of workers related to chemical agents at work (consolidated text, Journal of Laws 2016 no. 0 item 1488)

Act of 14 December 2012. on Waste (Journal of Laws of 2013. pos. 21, as amended).

Act of 13 June 2013. On packaging and packaging waste (Journal. U. of 2013. Item. 888, as amended).

Ordinance of the Minister of Climate of 2nd January 2020 on Waste Catalog (Dz. U. 2020 item 10).

Ordinance of the Minister of Environment on the requirements for carrying out the process of thermal treatment of waste and how to deal with waste produced in the process. (Dz. U. of 2016., Pos. 108)

Act of 19 August 2011 on transport of dangerous goods (Dz. U. Nr. 227, item 1367, as amend-

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ed).

Government Statement of February 15, 2021 on the entry into force of amendments to Annexes A and B to Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), drawn up in Geneva on September 30, 1957 (Journal of Laws 202 poz.874 as amended)

Act of July 29, 2005 on drug addiction prevention (Journal of Laws of 2005, No. 179, item 1485, with later amendments)

Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC

15.2 Chemical safety assessment

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

SECTION 16: Other information

Full text of other abbreviations

PL OEL	:	Poland. Occupational exposure limits for airborne toxic sub- stances		
PL OEL / NDS	:	Maximal Admissible Concentration		
PL OEL / NDSch	÷	Maximal Admissible Temporary Concentration		
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		
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 European Parliament		
		and of the Council of 18 December 2006 concerning the Reg-		
		istration, Evaluation, Authorisation and Restriction of Chemi-		
S)////S		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

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 !

PL/EN