

Date of last issue: 20.12.2024	Version 7.0	Print Date 18.07.2025
Revision Date: 18.07.2025		

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

Trade name	:	SikaForce [®] -040 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 Limited Watchmead Welwyn Garden City
		Hertfordshire. AL7 1BQ
Telephone	:	+44 (0)1707 394444
Telefax	:	+44 (0)1707 329129
E-mail address of person responsible for the SDS	:	EHS@uk.sika.com

1.4 Emergency telephone number

National Chemical Emergency Centre (NCEC) 24 Hour Emergency Telephone Number +44 870 190 6777

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 12 Acute toxicity, Category 4	72/2008) 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.



Date of last issue: 20.12.2024 Revision Date: 18.07.2025		Version 7.0	Print Date 18.07.2025
Specific target organ toxicity exposure, Category 2	- repeated	H373: May cause damage longed or repeated exposi	
2.2 Label elements			
Labelling (REGULATION (E	C) No 1272/2	008)	
Hazard pictograms			
Signal word	: Danger		
Hazard statements	: H315 H317 H319 H332 H334 H335 H351 H373	Causes skin irritation. May cause an allergic ski Causes serious eye irrita Harmful if inhaled. May cause allergy or asth ing difficulties if inhaled. May cause respiratory irr Suspected of causing cau May cause damage to or or repeated exposure if ir	tion. hma symptoms or breath- itation. ncer. gans through prolonged
Precautionary statements	: Preventi P201 P260 P264 P280	Obtain special instru Do not breathe mist Wash skin thorough	or vapours. Iy after handling. ves/ protective clothing/
	Respons P304 + P P342 + P	2340 + P312 IF INHALED: air and keep comfor POISON CENTER/	Remove person to fresh table for breathing. Call a doctor if you feel unwell. iratory symptoms: Call a doctor.

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.



Date of last issue: 20.12.2024	Version 7.0	Print Date 18.07.2025
Revision Date: 18.07.2025		

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 me	easures
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.



Date of last issue: 20.12.2024 Revision Date: 18.07.2025		Version 7.0	Print Date 18.07.202
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 unconscio 	
4.2 Most important sympton	is 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 of and symptoms. 	on 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 breaties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolong exposure if inhaled.	
4.2 Indication of any immed	ata m	adical attention and special treatment peeded	
Treatment	ate m	edical attention and special treatment needed Treat symptomatically.	

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.



Date of last issue: 20.12.2024 Revision Date: 18.07.2025	f last issue: 20.12.2024 Version 7.0 on Date: 18.07.2025		
5.2 Special hazards arising from	n th	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 breat	hing apparatus.
Further information	:	Standard procedure for chemical fires.	
SECTION 6: Accidental relea	se	measures	
6.1 Personal precautions, prote	ctiv	e equipment and emergency procedures	
6.1 Personal precautions, protect Personal precautions	ctiv :	e equipment and emergency procedures Use personal protective equipment. Deny access to unprotected persons.	
	ctiv :	Use personal protective equipment.	
Personal precautions	ctiv :	Use personal protective equipment. Deny access to unprotected persons.	
Personal precautions 6.2 Environmental precautions	:	Use personal protective equipment. Deny access to unprotected persons. Do not flush into surface water or sanitary set If the product contaminates rivers and lakes or respective authorities.	
Personal precautions 6.2 Environmental precautions Environmental precautions	:	Use personal protective equipment. Deny access to unprotected persons. Do not flush into surface water or sanitary set If the product contaminates rivers and lakes or respective authorities.	or drains inform and, silica gel,
Personal precautions 6.2 Environmental precautions Environmental precautions 6.3 Methods and material for co	:	Use personal protective equipment. Deny access to unprotected persons. Do not flush into surface water or sanitary set If the product contaminates rivers and lakes of respective authorities. inment and cleaning up Soak up with inert absorbent material (e.g. sa acid binder, universal binder, sawdust).	or drains inform and, silica gel,

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7.1 Precautions for safe handling

Advice on 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
	plication area.
	Provide sufficient air exchange and/or exhaust in work rooms
	 ma, allergies, chronic or recurrent respiratory disease sho not be employed in any process in which this mixture is b used. Smoking, eating and drinking should be prohibited in the plication area.



Date of last issue: 20.12.2024 Revision Date: 18.07.2025		Version 7.0	Print Date 18.07.2025
		Follow standard hygiene measures when handlin products	ng chemical
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.	
Hygiene measures	:	Handle in accordance with good industrial hygie practice. When using do not eat or drink. When smoke. Wash hands before breaks and at the er	using do not
7.2 Conditions for safe storage,	inc	uding any incompatibilities	
Requirements for storage areas and containers	:	Keep container tightly closed in a dry and well-veplace. Containers which are opened must be casealed and kept upright to prevent leakage. Stor ance with local regulations.	refully re-
Further information on stor- age stability	:	No decomposition if stored and applied as direct	ted.
7.3 Specific end use(s)			
Specific use(s)	:	Cleaning with aprotic polar solvents must be ave 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	TWA	0,02 mg/m3 (NCO)	GB EH40
	Further information	ation: Capable of ca	ausing occupation	al asthma.
		STEL	0,07 mg/m3 (NCO)	GB EH40
		TWA	0,01 mg/m3 (NCO)	98/24/EC I
	Further information	and respiratory se	ensitisation,	
		STEL	0,02 mg/m3 (NCO)	98/24/EC I

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

Biological occupational exposure limits

Substance name	CAS-No.	Control parame-	Sampling time	Basis
		ters		



Date of last issue: 20.12.2024 Revision Date: 18.07.2025	Versio	n 7.0	Print Date 18.07.2025		
Diphenylmethanediisocyanate, iso- meres and homologues	9016-87-9	isocyanate- derived diamine (Isocyanates): 1 µmol/mol creati- nine (Urine)	At the end of the period of expo- sure	GB EH40 BAT	

8.2 Exposure controls

Engineering measures

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

Personal protective equipme	ent	
Eye/face protection	:	Safety glasses with side-shields conforming to EN166
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.

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.

Version 7.0

SECTION 9: Physical and chemical properties

9.1 Information on basic physical Appearance	an :	liquid
Colour	:	brown
Odour	:	odourless
Melting point/ range / Freez- ing point	:	No data available
Boiling point/boiling range	:	> 300 °C
Flammability (solid, gas)	:	No data available
Upper/lower flammability or e	exp	losive limits
Upper explosion limit / Up- per flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	> 200 °C Method: closed cup
Auto-ignition temperature	:	> 500 °C
Decomposition temperature	:	No data available
рН	:	Not applicable
Viscosity		
Viscosity, dynamic	:	ca. 200 mPa.s (20 °C)
Viscosity, kinematic	:	> 20,5 mm2/s (40 °C)



Print Date 18.07.2025



Date of last issue: 20.12.2024 Revision Date: 18.07.2025	Version 7.0	Print Date 18.07.2025
Solubility(ies) Water solubility	: insoluble	
Partition coefficient: n- octanol/water	: No data available	
Vapour pressure	: ca. 1 hPa (20 °C)	
Density	: ca. 1,24 g/cm3 (20 °C)	
Relative vapour density	: No data available	
Particle characteristics	: No data available	

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.
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10.4 Conditions to avoid

Conditions to avoid	:	No data available
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10.5 Incompatible materials

Materials to avoid	: No data available
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10.6 Hazardous decomposition products

No hazardous decomposition products are known.



Date of last issue: 20.12.2024 Revision Date: 18.07.2025 Version 7.0

Print Date 18.07.2025

SECTION 11: Toxicological information

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

Acute toxicity Harmful if inhaled.		
Components:		
Diphenylmethanediisocyar	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
Skin corrosion/irritation Causes skin irritation. Serious eye damage/eye irr Causes serious eye irritation		on
Respiratory or skin sensiti		on
Skin sensitisation May cause an allergic skin re	eactio	on.
Respiratory sensitisation May cause allergy or asthma	sym	ptoms or breathing difficulties if inhaled.
Germ cell mutagenicity Not classified due to lack of c	data.	
Carcinogenicity Suspected of causing cancer	r.	
Reproductive toxicity Not classified due to lack of c	data.	
STOT - single exposure May cause respiratory irritation	on.	
STOT - repeated exposure May cause damage to organ	s thr	ough prolonged or repeated exposure if inhaled.
Aspiration toxicity Not classified due to lack of o	data.	



Date of last issue: 20.12.2024 Revision Date: 18.07.2025	Version 7.0	Print Date 18.07.2025
11.2 Information on other hazards		

Endocrine disrupting properties

Not classified due to lack of data.

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/l Exposure time: 96 h
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): > 1.640 mg/l Exposure time: 72 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:

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



Date of last issue: 20.12.2024 Revision Date: 18.07.2025	Version 7.0	Print Date 18.07.2025
	(EU) 2017/2100 or Commission Regulevels of 0.1% or higher.	lation (EU) 2018/605 at
12.7 Other adverse effects		
Product: Additional ecological infor- mation	: There is no data available for this pro-	duct.
SECTION 13: Disposal conside	erations	
13.1 Waste treatment methods		
Product	 The generation of waste should be average wherever possible. Empty containers or liners may retain This material and its container must be way. Dispose of surplus and non-recyclable waste disposal contractor. Disposal of this product, solutions and at all times comply with the requirement protection and waste disposal legislat local authority requirements. Avoid dispersal of spilled material and soil, waterways, drains and sewers. 	some product residues. be disposed of in a safe e products via a licensed d any by-products should ents of environmental ion and any regional
European Waste Catalogue	: 08 05 01* waste isocyanates	
Contaminated packaging	: 15 01 10* packaging containing residu	ues of or contaminated

by dangerous substances

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)		



Date of last issue: 20.12.2024 Revision Date: 18.07.2025		Version 7.0	Print Date 18.07.2025
ADR	· Not	regulated as a dangerous good	
IMDG		regulated as a dangerous good	
ΙΑΤΑ		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 dangero	is good		
14.6 Special precautions for u Not applicable	er		
14.7 Maritime transport in bull Not applicable for product a		•	

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	•	Conditions of restriction for the fol- lowing entries should be considered: Number on list 56: Diphenylme- thanediisocyanate, isomeres and homologues
		Number on list 74: Diphenylme- thanediisocyanate, isomeres and homologues
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable
International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors	:	Not applicable
Regulation (EU) No 2024/590 on substances that de-	:	Not applicable
Country GB 000000101085		13 / 1



Date of last issue: 20.12.2024 Revision Date: 18.07.2025	Version 7.0	Print Date 18.07.2025
plete the ozone layer		
UK REACH List of substances su (Annex XIV)	bject to authorisation : Not applicable	
GB Export and import of hazardou Informed Consent (PIC) Regulation		
Control of Major Accident Hazards 2015 (COMAH)	s Regulations Not applicable	
Volatile organic compounds :	Law on the incentive tax for volatile organic com (VOCV) no VOC duties	ipounds
	Directive 2010/75/EU of 24 November 2010 on livestock rearing emissions (integrated pollution 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 environ- mental 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 substance by the supplier.

SECTION 16: Other information

Full text of other abbrev	ations
98/24/EC I	: Europe. Chemical Agents Directive - Annex I: Binding occupa- tional exposure limit values
GB EH40	: UK. EH40 WEL - Workplace Exposure Limits
GB EH40 BAT	: UK. Biological monitoring guidance values
98/24/EC I / STEL	: Limit values Short-term
98/24/EC I / TWA	: Limit values 8 hours
GB EH40 / TWA	: Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	: Short-term exposure limit (15-minute reference period)
ADR	: European Agreement concerning the International Carriage of Dangerous Goods by Road



Date of last issue: 20.12.2024 Revision Date: 18.07.2025		Version 7.0	Print Date 18.07.2025	
CAS DNEL EC50 GHS IATA IMDG		Chemical Abstracts Service Derived no-effect level Half maximal effective concentration Globally Harmonized System International Air Transport Association International Maritime Code for Dangerous Go	ods	
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 air that kills 50% of the test animals during the period)		
MARPOL	:	International Convention for the Prevention of I Ships, 1973 as modified by the Protocol of 197		
OEL	:	Occupational Exposure Limit		
PBT	:	Persistent, bioaccumulative and toxic		
PNEC	:	Predicted no effect concentration		
REACH	:	Regulation (EC) No 1907/2006 of the European and of the Council of 18 December 2006 conce istration, Evaluation, Authorisation and Restrict cals (REACH), establishing a European Chemi	erning the Reg- tion of Chemi-	
SVHC	:	Substances of Very High Concern		
vPvB	:	Very persistent and very bioaccumulative		

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 !

GB / EN