



Version 1.1

Print Date 28.03.2025

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

### **1.1 Product identifier**

Trade name

SikaForce<sup>®</sup>-436 (H 6236) Part B

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

Product use : Adhesive

### 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	: EHS@pl.sika.com
responsible for the SDS	

### 1.4 Emergency telephone number

112

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 127	272/2008)			
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 ( Hazard pictograms	<b>EC)</b> :	No 1272/2008)	!
Signal word	:	Danger	
Hazard statements	:	H317 M H319 C H332 H H334 M H335 M H351 S H373 M	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breath- ng difficulties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolonged r repeated exposure if inhaled.
Precautionary statements	:	<b>Prevention:</b> P201 P260 P264 P280 <b>Response:</b> 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:

Diphenylmethanediisocyanate, isomeres and homologues

### **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
onemical name	EC-No.	Classification	(% w/w)
	Registration number		(70 \\/\\)
Dinhanylmathanadiiaaayanata	9016-87-9	Acute Tox. 4; H332	>= 25 - < 40
Diphenylmethanediisocyanate,			>= 25 - < 40
isomeres and homologues	Not Assigned	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 %	
		specific concentration	
		limit	
		Resp. Sens. 1; H334	
		>= 0,1 %	
		~= 0,1 70	
		specific concentration	
		limit	
		Skin Irrit. 2; H315	
		>= 5 %	
		specific concentration	
		limit	
		STOT SE 3; H335	
		>= 5 %	

For explanation of abbreviations see section 16.



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## **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

:	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.
:	Move to fresh air. Consult a physician after significant exposure.
:	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.
:	Immediately flush eye(s) with plenty of water. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
:	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.
nd e	ffects, both acute and delayed
:	Asthmatic appearance Cough Respiratory disorder Allergic reactions Excessive lachrymation Erythema Headache Dermatitis See Section 11 for more detailed information on health effects and symptoms.
:	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
	:

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4.3 Indication of any immediate n	ne	dical attention and special treatment needed					
Treatment	:	Treat symptomatically.					
SECTION 5: Firefighting measures							
5.1 Extinguishing media							
	:	In case of fire, use water/water spray/water jet/ca ide/sand/foam/alcohol resistant foam/chemical pe extinction.					
5.2 Special hazards arising from	the	e substance or mixture					
		No hazardous combustion products are known					
5.3 Advice for firefighters							
-	:	In the event of fire, wear self-contained breathing	g apparatus.				
Further information	:	Standard procedure for chemical fires.					
SECTION 6: Accidental release measures							
6.1 Personal precautions, protect	tiv	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 If the product contaminates rivers and lakes or de 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, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.	silica gel,				
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 formation of aerosol.
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		Avoid exceeding the given occupational expose 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 prok ma, allergies, chronic or recurrent respiratory d not be employed in any process in which this m used. Smoking, eating and drinking should be prohibit plication area. Provide sufficient air exchange and/or exhaust Follow standard hygiene measures when hand products	blems or asth- isease should hixture is being ited in the ap- in work rooms.
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.	
Hygiene measures	:	Handle in accordance with good industrial hygic practice. When using do not eat or drink. When smoke. Wash hands before breaks and at the e	n using do not
7.2 Conditions for safe storage,	inc	luding any incompatibilities	
Requirements for storage areas and containers	:	Keep container tightly closed in a dry and well- place. Containers which are opened must be ca sealed and kept upright to prevent leakage. Sto ance with local regulations.	arefully re-
Further information on stor- age stability	:	No decomposition if stored and applied as direc	cted.
7.3 Specific end use(s)			
Specific use(s)	:	Cleaning with aprotic polar solvents must be av Consult most current local Product Data Sheet 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



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\*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	nt	
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 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 additionally 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.



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

### 9.1 Information on basic physical and chemical properties

Physical state Appearance Colour	:	liquid viscous liquid beige
Odour	:	characteristic
Melting point/ range / Freez- ing point	:	No data available
Boiling point/boiling range	:	190 °C
Flammability (solid, gas)	:	No data available
Upper/lower flammability or e	nد	losive limits
Upper explosion limit / Up- per 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
pН	:	Not applicable
		substance/mixture reacts with water
Viscosity		
Viscosity, kinematic	:	> 20,5 mm2/s (40 °C)
Solubility(ies)		
Water solubility	:	insoluble
Partition coefficient: n- octanol/water	:	No data available



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Vapour pressure	: 0,01 hPa		

: ca. 1,40 g/cm3 (20 °C)

Relative vapour density	: No data ava	ilable
Relative vapour density	: No data a	ava

Particle characteristics : No data available

# 9.2 Other information

Density

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

## **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.

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# **Components:**

Diphenylmethanediisocyanate 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 irritat	tion
Causes serious eye irritation.	
Respiratory or skin sensitisati	on
Skin sensitisation	
May cause an allergic skin react	ion.
Respiratory sensitisation	
May cause allergy or asthma syr	mptoms or breathing difficulties if inhaled.
Germ cell mutagenicity	
Not classified due to lack of data	a.
Carcinogenicity	
Suspected of causing cancer.	
Reproductive toxicity Not classified due to lack of data	
	1.
<b>STOT - single exposure</b> May cause respiratory irritation.	
STOT - repeated exposure	
• •	rough prolonged or repeated exposure if inhaled.
Aspiration toxicity	
Not classified due to lack of data	a.
2 Information on other hazards	
Endocrine disrupting propertie	es
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

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 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		



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# **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

Product	<ul> <li>The generation of waste should be avoided or minimized wherever possible.</li> <li>Empty containers or liners may retain some product residues.</li> <li>This material and its container must be disposed of in a safe way.</li> <li>Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.</li> <li>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.</li> <li>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.</li> </ul>	
European Waste Catalogue	08 05 01* waste isocyanates	
Contaminated packaging	15 01 10* packaging containing residues 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)		
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
Country DL 00000690752		



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# IATA (Passenger) : Not regulated as a dangerous good

## 14.5 Environmental hazards

Not regulated as a dangerous good

## 14.6 Special precautions for user

Not applicable

## 14.7 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 manufacture, placing on Conditions of restriction for the folthe market and use of certain dangerous substances, lowing entries should be considered: Number on list 3 mixtures and articles (Annex XVII) Number on list 56: Diphenylmethanediisocyanate, isomeres and homologues Number on list 74: Diphenylmethanediisocyanate, isomeres and homologues REACH - Candidate List of Substances of Very High None of the components are listed Concern for Authorisation (Article 59). (=> 0.1 %). REACH - List of substances subject to authorisation Not applicable (Annex XIV)

Regulation (EC) on substances that deplete the ozone : Not applicable layer

Regulation (EU) 2019/1021 on persistent organic pollu- : Not applicable

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> 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)

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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 amended).

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 mixture by the supplier.

## **SECTION 16: Other information**

### Full text of H-Statements

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

# SAFETY DATA SHEET

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

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Skin Irrit. Skin Sens. STOT RE STOT SE PL OEL	<ul> <li>Skin irritation</li> <li>Skin sensitisation</li> <li>Specific target organ toxicity - repeated exposure</li> <li>Specific target organ toxicity - single exposure</li> <li>Ordinance of the Minister of Family, Labour and Social Policy of 12 June 2018 concerning the highest allowable concentra-</li> </ul>	
PL OEL / NDS PL OEL / NDSch ADR	<ul> <li>tions and levels of the agents harmful for health in the work- place (Dz.U 2018 pos 1286, with later amendments)</li> <li>Maximal Admissible Concentration</li> <li>Maximal Admissible Temporary Concentration</li> <li>European Agreement concerning the International Carriage of Dangerous Goods by Road</li> </ul>	of
CAS DNEL EC50 GHS IATA IMDG LD50	<ul> <li>Chemical Abstracts Service</li> <li>Derived no-effect level</li> <li>Half maximal effective concentration</li> <li>Globally Harmonized System</li> <li>International Air Transport Association</li> <li>International Maritime Code for Dangerous Goods</li> <li>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)</li> </ul>	f
LC50	: Median lethal concentration (concentrations of the chemical i air that kills 50% of the test animals during the observation period)	'n
MARPOL	: International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978	
OEL PBT PNEC REACH	<ul> <li>Occupational Exposure Limit</li> <li>Persistent, bioaccumulative and toxic</li> <li>Predicted no effect concentration</li> <li>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</li> </ul>	
SVHC vPvB	<ul> <li>Substances of Very High Concern</li> <li>Very persistent and very bioaccumulative</li> </ul>	

### Further information

Classification of the mix	ture:	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

# SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878 SikaForce®-436 (H 6236) Part B



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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