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

1.1 Product identifier

Trade name

: Sikaflex[®] Universal

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

Product use : Sealant/adhesive

1.3 Details of the supplier of the safety data sheet

Company name of supplier	:	Sika Hellas ABEE
		15 Protomagias Street
		145 68 Kryoneri / Athens
Telephone	:	+30 210 81 60 600
Telefax	:	+30 210 81 60 606
E-mail address of person	:	EHS@gr.sika.com
responsible for the SDS		

1.4 Emergency telephone number

Poison Information Center + 30 210 77 93 777 Poison Information Center: 1401 (Cyprus)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Specific target organ toxicity - repeated exposure, Category 2, Central nervous system 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	:	Warning		
Hazard statements	:	H373	May cause damage to organs (Central nerv- ous system) through prolonged or repeated exposure if inhaled.	
Precautionary statements	:	P101 P102	If medical advice is needed, have product container or label at hand. Keep out of reach of children.	
		P103	Read label before use.	

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Prevention:	
P260	Do not breathe mist or vapours.
Response: P314	Get medical advice/ attention if you feel un- well.
_	wen.
Disposal:	
P501	Dispose of contents/container in accordance with local regulation.

Hazardous components which must be listed on the label:

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Additional Labelling

EUH208	Contains 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, m-tolylidene diisocyanate, Hardener LI (Isophoronedialdimine), Pentamethyl piperidylseba- cate. May produce an allergic reaction.
EUH204 EUH211	Contains isocyanates. May produce an allergic reaction. Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

"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.

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		
Urea,N,N"-(methylenedi-4,1-	77703-56-1	Aquatic Chronic 4;	>= 2,5 - < 5
phenylene)bis[N'-butyl-	416-600-4	H413	
	01-0000016345-72-		
	XXXX		

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Hydrocarbons, C9-C12, n- alkanes, isoalkanes, cyclics, aro- matics (2-25%)	Not Assigned 919-446-0 265-185-4 01-2119458049-33- XXXX [corresponding group CAS 64742-82- 1]	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) STOT RE 1; H372 (Central nervous system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411 EUH066	>= 1 - < 2,5
Hardener LI (Isophoronedial- dimine)	932742-30-8 700-071-4 01-2119880654-28- XXXX	Skin Sens. 1B; H317 Aquatic Chronic 3; H412	>= 0,5 - < 1
Pentamethyl piperidylsebacate Contains: bis(1,2,2,6,6-pentamethyl-4- piperidyl) sebacate methyl 1,2,2,6,6-pentamethyl-4- piperidyl sebacate	1065336-91-5 915-687-0 01-2119491304-40- XXXX	Skin Sens. 1A; H317 Repr. 2; H361f Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 0,025 - < 0,1
3-isocyanatomethyl-3,5,5- trimethylcyclohexyl isocyanate	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	>= 0,025 - < 0,1
		limit Resp. Sens. 1; H334 >= 0,5 % Skin Sens. 1; H317 >= 0,5 % Acute toxicity esti-	
		Acute inhalation tox- icity (dust/mist): 0,031 mg/l	

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m-tolylidene diisocyanate	26471-62-5	Acute Tox. 1; H330	>= 0,025 - <
	247-722-4	Skin Irrit. 2; H315	0,1
	01-2119454791-34-	Eye Irrit. 2; H319	
	XXXX	Resp. Sens. 1; H334	
		Skin Sens. 1; H317	
		Carc. 2; H351	
		STOT SE 3; H335	
		(Respiratory system)	
		Aquatic Chronic 3;	
		H412	
		specific concentration	
		limit	
		Resp. Sens. 1; H334	
		>= 0,1 %	
		Acute toxicity esti-	
		mate	
		Acute inhalation tox-	
		icity (vapour): 0,107	
		mg/l	
Substances with a workplace ex	kposure limit :		
Titanium dioxide (> 10 µm)	13463-67-7		>= 1 - < 2,5
	236-675-5		
	01-2119489379-17-		
	XXXX		

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	:	Move to fresh air.
In case of skin contact	:	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water.
In case of eye contact	:	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.



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4.2 Most important symptoms and effects, both acute and delayed

	Symptoms	:	See Section 11 for more detailed information on health effects and symptoms.
	Risks	:	No known significant effects or hazards.
			May cause damage to organs through prolonged or repeated exposure if inhaled.
.3	Indication of any immediate n	nec	dical attention and special treatment needed

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	:	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media : In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction. 5.2 Special hazards arising from the substance or mixture Hazardous combustion prod- : No hazardous combustion products are known ucts 5.3 Advice for firefighters Special protective equipment : In the event of fire, wear self-contained breathing apparatus. for firefighters Further information Standard procedure for chemical fires.

SECTION 6: Accidental release measures

6.1 Personal precautions, protections Personal precautions	 ctive equipment and emergency procedures Use personal protective equipment. Deny access to unprotected persons.
6.2 Environmental precautions	
Environmental precautions	 Try to prevent the material from entering drains or water courses. No special environmental precautions required.
6.3 Methods and material for co	ntainment 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.

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6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Advice on safe handling Avoid exceeding the given occupational exposure limits (see section 8). For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Follow standard hygiene measures when handling chemical products Advice on protection against Normal measures for preventive fire protection. fire and explosion Handle in accordance with good industrial hygiene and safety Hygiene measures 2 practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday. 7.2 Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated Requirements for storage : areas and containers place. Store in accordance with local regulations. Further information on stor-5 No decomposition if stored and applied as directed. age stability 7.3 Specific end use(s) Specific use(s) Consult most current local Product Data Sheet prior to any 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 *	
Titanium dioxide (> 10 μm)	13463-67-7	TWA (inhalable)	10 mg/m3	GR OEL	
		TWA (respirable)	5 mg/m3	GR OEL	
3-isocyanatomethyl-3,5,5- trimethylcyclohexyl isocyanate	4098-71-9	TWA	0,01 ppm 0,09 mg/m3	GR OEL	
	chemical fact the likely cont of exposure to	Further information: The notation 'skin' (D), pointing out certain chemical factors of the table of paragraph of 1 article 3, implie the likely contribution to of these chemical factors to the quanti of exposure to workers which are absorbed through the skin at direct contact with these.			
		STEL	0,02 ppm	GR OEL	



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			0,18 mg/m3	
m-tolylidene diisocyanate	26471-62-5	TWA	0,01 ppm	GR OEL
			0,07 mg/m3	
		STEL	0,02 ppm	GR OEL
			0,14 mg/m3	

*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 Chemical-resistant, impervious gloves complying with an approved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manufacturer 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. 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.
Environmental exposure cont	rols
Conoral advice	The to provent the material from entering drains or water

General advice

:	Try to prevent the material from entering drains or water
	courses.
	No special environmental precautions required.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state Appearance Colour Odour	: : : : : : : : : : : : : : : : : : : :	liquid paste white slight
Melting point/range / Freezing point	:	No data available
Boiling point/boiling range	:	No data available
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	:	ca. 69 °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. 100.000 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. 1,57 g/cm3 (20 °C)
Relative vapour density	:	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 : Avoid moisture.

10.5 Incompatible materials

Materials to avoid : No data available

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

Not classified due to lack of data.

Components:

Urea,N,N"-(methylenedi-4,1-phenylene)bis[N'-butyl-:

Acute oral toxicity	:	LD50 Oral (Rat): > 2.000 mg/kg Method: OECD Test Guideline 401
Acute dermal toxicity	:	LD50 Dermal (Rabbit): > 2.000 mg/kg Method: OECD Test Guideline 402

Hardener LI (Isophoronedialdimine):

Acute oral toxicity	:	LD50 Oral (Rat): > 2.000 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg

Pentamethyl piperidylsebacate:

Acute oral toxicity : LD50 Oral (Rat): 3.230 mg/kg

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3-isocyanatomethyl-3,5,5-tr Acute oral toxicity	ime :	
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
m-tolylidene diisocyanate:		
Acute inhalation toxicity	:	LC50 (Rat): 0,107 mg/l Exposure time: 4 h Test atmosphere: vapour
		Acute toxicity estimate: 0,107 mg/l Test atmosphere: vapour Method: Calculation method
Skin corrosion/irritation Not classified due to lack of d	ata.	
Components:		
Hydrocarbons, C9-C12, n-al	kar	es, isoalkanes, cyclics, aromatics (2-25%):
Assessment Result	:	Repeated exposure may cause skin dryness or cracking. Repeated exposure may cause skin dryness or cracking.
Sariaus ava damaga/ava irr		
Serious eye damage/eye irr Not classified due to lack of d		
	ata.	
Not classified due to lack of d	ata. atic	on
Not classified due to lack of d Respiratory or skin sensitis Skin sensitisation	ata. atic ata.	n
Not classified due to lack of d Respiratory or skin sensitis Skin sensitisation Not classified due to lack of d Respiratory sensitisation	ata. atic ata. ata.	n
Not classified due to lack of d Respiratory or skin sensitis Skin sensitisation Not classified due to lack of d Respiratory sensitisation Not classified due to lack of d Germ cell mutagenicity	ata. atic ata. ata.	'n
Not classified due to lack of d Respiratory or skin sensitis Skin sensitisation Not classified due to lack of d Respiratory sensitisation Not classified due to lack of d Germ cell mutagenicity Not classified due to lack of d Carcinogenicity	ata. atic ata. ata. ata.	n

Not classified due to lack of data.

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STOT - repeated exposure

May cause damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled.

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

Components:

Urea,N,N"-(methylenedi-4,1-phenylene)bis[N'-butyl-:

Toxicity to fish	:	LC50 (Brachydanio rerio (zebrafish)): > 250 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Raphidocelis subcapitata (freshwater green alga)): > 100 mg/l Exposure time: 72 h

Hardener LI (Isophoronedialdimine):

Toxicity to fish	:	LC50 (Fish): 87,2 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia (water flea)): > 100 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 180,4 mg/l Exposure time: 72 h

Pentamethyl piperidylsebacate:

Toxicity to fish	:	LC50 (Fish): 0,97 mg/l
		Exposure time: 96 h

M-Factor (Acute aquatic tox- : 1

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icity)

M-Factor (Chronic aquatic : 1 toxicity)

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

1

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		

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

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soil, waterways, drains and sewers.

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		

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/legislatio	on	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

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excluded from the regulation, and/or
exempted from the registration.

REACH - Restrictions on the mar the market and use of certain dar mixtures and articles (Annex XVII	ngerous substances,	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 75, 3	
			3-isocyanatomethyl-3,5,5- trimethylcyclohexyl isocyanate (Number on list 74) m-tolylidene diisocyanate (Number on list 74) 1,2-Benzenedicarboxylic acid, di-C9- 11-branched alkyl esters, C10-rich (Number on list 52)	
REACH - Candidate List of Subst Concern for Authorisation (Article		:	None of the components are listed (=> 0.1 %).	
REACH - List of substances subje (Annex XIV)	ect to authorisation	:	Not applicable	
Regulation (EC) No 1005/2009 or plete the ozone layer	n substances that de-	:	Not applicable	
Regulation (EU) 2019/1021 on pe tants (recast)	ersistent organic pollu-	:	Not applicable	
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals			Not applicable	
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of ma- jor-accident hazards involving dangerous substances. Not applicable				
Volatile organic compounds : Law on the incentive tax for volatile organic compounds (VOCV) Volatile organic compounds (VOC) content: 2,2% w/w no VOC duties				
Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 2,2% w/w				

15.2 Chemical safety assessment

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

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SECTION 16: Other information

Full text of H-Statements		
H226	:	Flammable liquid and vapour.
H304	:	May be fatal if swallowed and enters airways.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H319	:	Causes serious eye irritation.
H330	:	Fatal if inhaled.
H334	:	May cause allergy or asthma symptoms or breathing difficul-
		ties if inhaled.
H335	:	May cause respiratory irritation.
H336	:	May cause drowsiness or dizziness.
H351	:	Suspected of causing cancer.
H361f	:	Suspected of damaging fertility.
H372	:	Causes damage to organs through prolonged or repeated exposure if inhaled.
H400	:	Very toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.
H411	:	Toxic to aquatic life with long lasting effects.
H412	:	Harmful to aquatic life with long lasting effects.
H413	:	May cause long lasting harmful effects to aquatic life.

Full text of other abbreviations

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MARPOL	air that kills 50% of the test anima period) International Convention for the P	Prevention of Pollution from
OEL PBT PNEC	 Ships, 1973 as modified by the P Occupational Exposure Limit Persistent, bioaccumulative and t Predicted no effect concentration 	oxic
REACH	 Regulation (EC) No 1907/2006 of and of the Council of 18 Decembristration, Evaluation, Authorisation cals (REACH), establishing a Eur 	f the European Parliament er 2006 concerning the Reg- n and Restriction of Chemi-
SVHC	: Substances of Very High Concern	
vPvB	: Very persistent and very bioaccur	mulative
Further information		
Classification of the mixture	Classifi	cation procedure:

STOT RE 2 H373 Calculation method	Classification of the f	liixture.	Classification procedure		
	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 !

GR / EN