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

1.1 Product identifier

Trade name

: Sikaflex[®]-291i

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

SECTION 2: Hazards identification

2.2

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)			
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.		
Label elements			
Labelling (REGULATION (EC) No 1272	2/2008)		

Hazard pictograms	:		
Signal word	:	Warning	
Hazard statements	:	H317	May cause an allergic skin reaction.
Precautionary statements	:	P101 P102	If medical advice is needed, have product container or label at hand. Keep out of reach of children.
		Prevention: P261 P280 Response:	Avoid breathing mist or vapours. Wear protective gloves.



Revision Date: 04.04.2023 Version 4.1 Date of last issue: 06.12.2021 P302 + P352 IF ON SKIN: Wash with plenty of water. Disposal: P501 Dispose of contents/container in accordance with local regulation. Hazardous components which must be listed on the label: Hardener LI (Isophoronedialdimine) Reaction product of Hexamethylene diisocyanate, oligomers with Mercaptopropyltrimethoxysilane Pentamethyl piperidylsebacate 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate 4,4'-methylenediphenyl diisocyanate **Additional Labelling** EUH204 Contains isocvanates. May produce an allergic reaction. EUH211 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. EC-No. Registration number	Classification	Concentration (% w/w)
Urea,N,N"-(methylenedi-4,1- phenylene)bis[N'-butyl-	77703-56-1 416-600-4 01-0000016345-72- XXXX	Aquatic Chronic 4; H413	>= 2,5 - < 5
Titanium dioxide (> 10 μm)	13463-67-7 236-675-5 01-2119489379-17- XXXX		>= 2,5 - < 5

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Hardener LI (Isophoronedial- dimine)	932742-30-8 700-071-4 01-2119880654-28- XXXX	Skin Sens. 1B; H317 Aquatic Chronic 3; H412	>= 0,25 - < 1
Reaction product of Hexameth- ylene diisocyanate, oligomers with Mercaptopropyltrimethoxysilane	192526-20-8 924-669-1 01-2120768758-32- XXXX	Skin Sens. 1A; H317 Aquatic Chronic 4; H413	>= 0,1 - < 0,25
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	>= 0,1 - < 0,25
		M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 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	>= 0,025 - < 0,25
		specific concentration limit Resp. Sens. 1; H334 >= 0,5 % Skin Sens. 1; H317 >= 0,5 %	
		Acute toxicity esti- mate Acute inhalation tox-	
		icity (dust/mist): 0,031 mg/l	

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4,4'-methylenediphenyl diisocya-	101-68-8	Acute Tox. 4; H332	< 0,1
nate	202-966-0	Skin Irrit. 2; H315	
	01-2119457014-47-	Eye Irrit. 2; H319	
	XXXX	Resp. Sens. 1; H334 Skin Sens. 1; H317	
		Carc. 2; H351	
		STOT SE 3; H335	
		(Respiratory system)	
		STOT RE 2; H373	
		specific concentration	
		limit	
		Eye Irrit. 2; H319 >= 5 %	
		STOT SE 3; H335	
		>= 5 %	
		Skin Irrit. 2; H315	
		>= 5 %	
		Resp. Sens. 1; H334	
		>= 0,1 %	
		Acute toxicity esti-	
		mate	
		Acute inhalation tox-	
		icity (dust/mist): 1,5	
For evaluation of others intigates		mg/l	

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. Consult a physician after significant exposure.
In case of skin contact	:	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.
In case of eye contact	-	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.



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Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	: Allergic reactions See Section 11 for more detailed information on health effects and symptoms.
Risks	: sensitising effects
	May cause an allergic skin reaction.

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 diox- ide/sand/foam/alcohol resistant foam/chemical powder for extinction.	
5.2 Special hazards arising from	the	e substance or mixture	
Hazardous combustion prod- ucts	:	No hazardous combustion products are known	
5.3 Advice for firefighters			
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.	
Further information	:	Standard procedure for chemical fires.	
SECTION 6: Accidental release measures			

6.1 Personal precautions, protective equipment and emergency procedures Personal precautions Use personal protective equipment. Deny access to unprotected persons. 6.2 Environmental precautions Environmental precautions Do not flush into surface water or sanitary sewer system. 6.3 Methods and material for containment 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). 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 asthma, 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 application area. Follow standard hygiene measures when handling chemical products
	Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
	Hygiene measures	:	Handle in accordance with good industrial hygiene and safety 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, i	incl	uding any incompatibilities
	Requirements for storage areas and containers	:	Keep container tightly closed in a dry and well-ventilated place. Store in accordance with local regulations.
	Further information on stor- age stability	:	No decomposition if stored and applied as directed.
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	Control parame-	Basis *
		of exposure)	ters *	
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-	4098-71-9	TWA	0,01 ppm	GR OEL
trimethylcyclohexyl isocyanate			0,09 mg/m3	
	Further information: The notation 'skin' (D), pointing out certain			

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	chemical factors of the table of paragraph of 1 article 3, implies the likely contribution to of these chemical factors to the quantity of exposure to workers which are absorbed through the skin at the direct contact with these.			
		STEL	0,02 ppm 0,18 mg/m3	GR OEL
4,4'-methylenediphenyl diisocyanate	101-68-8	TWA	0,02 ppm 0,2 mg/m3	GR OEL
		STEL	0,02 ppm 0,2 mg/m3	GR OEL

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

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Reaction product of Hexamethylene diisocy- anate, oligomers with Mercaptopropyltri- methoxysilane	Workers	Inhalation	Long-term systemic effects	1,7 mg/m3
	Workers	Dermal	Long-term systemic effects	4,7 mg/kg
	Consumers	Inhalation	Long-term systemic effects	0,3 mg/m3
	Consumers	Dermal	Long-term systemic effects	1,7 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Reaction product of Hexamethylene diisocyanate, oligomers with Mercap- topropyltrimethoxysilane	Fresh water	0,1 mg/l
	Intermittent use/release	1 mg/l
	Marine water	0,01 mg/l
	Intermittent use/release	1 mg/l
	Fresh water sediment	23,28 mg/kg
	Marine sediment	2,33 mg/kg
	Sewage treatment plant	100 mg/l
	Soil	4,58 mg/kg

8.2 Exposure controls

Engineering measures

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

Personal protective equipme	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 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)

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	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 long-sleeved working clothing, long trouse and protective boots are additionally recor and stirring work. 	ers). Rubber aprons
Respiratory protection	 In case of inadequate ventilation wear rest Respirator selection must be based on kn exposure levels, the hazards of the produ- ing limits of the selected respirator. organic vapor filter (Type A) A1: < 1000 ppm; A2: < 5000 ppm; A3: < 1 Ensure adequate ventilation. This can be exhaust extraction or by general ventilation ods for determining inhalation exposure). ticular to the mixing / stirring area. In case to keep the concentrations under the occu- limits then respiration protection measure 	10000 ppm achieved by local on. (EN 689 - Meth- This applies in par- e this is not sufficent upational exposure
Environmental exposure of	ontrols	
· · · · ·		

General advice	: Do not flush into surface water or sanitary sewer system.
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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 various very faint
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/lower flammability or e Upper explosion limit / Up- per flammability limit	•	
Upper explosion limit / Up-	:	
Upper explosion limit / Upper flammability limit	:	No data available
Upper explosion limit / Up- per flammability limit Lower explosion limit / Lower flammability limit	:	No data available No data available > 150 °C

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Decomposition temperature	:	No data available
рН	:	Not applicable substance/mixture is non-soluble (in water)
Viscosity		
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable
Solubility(ies)		
Water solubility	:	insoluble
Partition coefficient: n- octanol/water	:	No data available
Vapour pressure	:	0,01 hPa
Density	:	ca. 1,38 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.

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.

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SECTION 11: Toxicological information

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

Acute toxicity

Not classified based on available information.

Components:

Urea,N,N"-(methylenedi-4	,1-phe	enylene)bis[N'-butyl-:
Acute oral toxicity		LD50 Oral (Rat): > 2.000 mg/kg Method: OECD Test Guideline 401
		Method. OECD Test Guideline 401
Acute dermal toxicity	:	LD50 Dermal (Rabbit): > 2.000 mg/kg Method: OECD Test Guideline 402
Hardener LI (Isophorone	dialdiı	mine):
Acute oral toxicity	:	LD50 Oral (Rat): > 2.000 mg/kg
Acute dermal toxicity	:	LD50 Dermal (Rabbit): > 2.000 mg/kg
Reaction product of Hexa ysilane:	methy	ylene diisocyanate, oligomers with Mercaptopropyltrimethox-
Acute oral toxicity	:	LD50 Oral (Rat): > 2.000 mg/kg Method: OECD Test Guideline 423
Acute dermal toxicity	:	LD50 Dermal (Rat): > 2.000 mg/kg Method: OECD Test Guideline 402
Pentamethyl piperidylseb	acate	:
Acute oral toxicity	:	LD50 Oral (Rat): 3.230 mg/kg
3-isocyanatomethyl-3,5,5	-trime	thylcyclohexyl isocyanate:
Acute oral toxicity	:	LD50 Oral (Rat): 4.814 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 0,031 mg/l
		Exposure time: 4 h Test atmosphere: dust/mist
		Acute toxicity estimate: 0,031 mg/l
		Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	:	LD50 Dermal (Rat): > 7.000 mg/kg
4,4'-methylenediphenyl di	iisocy	anate:
Acute oral toxicity	-	LD50 Oral (Rat): > 5.000 mg/kg Method: OECD Test Guideline 401

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 Acute inhalation toxicity
 : LC50: 1,5 mg/l

 Exposure time: 4 h
 Test atmosphere: dust/mist

 Method: Expert judgement
 Acute toxicity estimate: 1,5 mg/l

 Test atmosphere: dust/mist
 Method: Calculation method

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

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.

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: LC50 (Brachydanio rerio (zebrafish)): > 250 mg/l



SECTION 12: Ecological information

12.1 Toxicity

Components:

Toxicity to fish

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

	•	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 (Isophoronedia	aldi	mine):				
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				
Reaction product of Hexame ysilane:	Reaction product of Hexamethylene diisocyanate, oligomers with Mercaptopropyltrimethox- vsilane:					
Toxicity to fish	:	LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203				
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202				
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201				
Pentamethyl piperidylsebac	Pentamethyl piperidylsebacate:					
Toxicity to fish	:	LC50 (Fish): 0,97 mg/l Exposure time: 96 h				
M-Factor (Acute aquatic tox- icity)	:	1				
M-Factor (Chronic aquatic toxicity)	:	1				

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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		

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	 The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
European Waste Catalogue	: 08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances

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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
IATA (Passenger)	:	Not regulated as a dangerous good
11 5 Environmental bazards		

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 3

3-isocyanatomethyl-3,5,5-

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			trimethylcyclohexyl isocyanate (Number on list 74) 4,4'-methylenediphenyl diisocyanate (Number on list 74, 56) 1,2-Benzenedicarboxylic acid, di-C9- 11-branched alkyl esters, C10-rich (Number on list 52)	
International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors			Not applicable	
REACH - Candidate List of Subst Concern for Authorisation (Article		:	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 deplete the ozone layer			Not applicable	
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)			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	
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.			m suppliers, and/or tion, and/or	
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 (VOCV) no VOC duties	fc	or volatile organic compounds	
			4 November 2010 on industrial ation prevention and control)	

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		
H315		Causes skin irritation.
H317	:	
	:	May cause an allergic skin reaction.
H319	:	Causes serious eye irritation.
H330	:	Fatal if inhaled.
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.
H361f	:	Suspected of damaging fertility.
H373	:	May cause 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 abbreviat	ions	
Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Carc.	:	Carcinogenicity
Eye Irrit.	:	Eye irritation
Repr.	:	Reproductive toxicity
Resp. Sens.	:	Respiratory sensitisation
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation
STOT RE	:	Specific target organ toxicity - repeated exposure
STOT SE	:	Specific target organ toxicity - single exposure
GR OEL	:	Greece. Exposure limit values
GR OEL / TWA	:	Long term exposure limit
GR OEL / STEL	:	Short term exposure limit
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
IATA	:	International Air Transport Association
IMDG		International Maritime Code for Dangerous Goods
LD50		Median lethal dosis (the amount of a material, given all at
2000	•	once, which causes the death of 50% (one half) of a group of
		test animals)
LC50		Median lethal concentration (concentrations of the chemical in
2000	•	air that kills 50% of the test animals during the observation
		•
MARPOL		period) International Convention for the Prevention of Pollution from
	•	Ships, 1973 as modified by the Protocol of 1978
		Ships, 1373 as mounded by the Flotocol of 1970

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Revision Date: 04.04.2023 Date of last issue: 06.12.2021	Version 4.1	Print Date 04.04.202
OEL PBT PNEC	 Occupational Exposure Limit Persistent, bioaccumulative and toxic Predicted no effect concentration 	
REACH	 Regulation (EC) No 1907/2006 of the Eu and of the Council of 18 December 2006 istration, Evaluation, Authorisation and R cals (REACH), establishing a European 	concerning the Reg- Restriction of Chemi-
SVHC	: Substances of Very High Concern	
vPvB	: Very persistent and very bioaccumulative	9
Further information		
Classification of the mixture:	Classification	procedure:

	olassification procedure		
Skin Sens. 1 H3	17	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