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

#### **1.1 Product identifier**

Trade name

: Sikaflex<sup>®</sup>-415 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 Poland Spółka z o.o.
	Karczunkowska 89
	02-871 Warszawa
Telephone	: +48 22 27 28 700
Telefax	: +48 22 27 28 800
E-mail address of person responsible for the SDS	: EHS@pl.sika.com

#### 1.4 Emergency telephone number

112

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Long-term (chronic) aquatic hazard, Cat- egory 3	H412: Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:		
Signal word	:	Warning	
Hazard statements	:	H317 H412	May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.
Precautionary statements	:	P101	If medical advice is needed, have product container or label at hand.
		P102	Keep out of reach of children.

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Prevention:	
P261	Avoid breathing mist or vapours.
P273	Avoid release to the environment.
P280	Wear protective gloves.
Disposal:	
P501	Dispose of contents/container in accordance with local regulation.

#### Hazardous components which must be listed on the label:

Hardener LI (Isophoronedialdimine) Pentamethyl piperidylsebacate 4,4'-methylenediphenyl diisocyanate m-tolylidene diisocyanate

#### Additional Labelling

EUH211

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

#### 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

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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
Hardener LI (Isophoronedial- dimine)	932742-30-8 700-071-4 01-2119880654-28- XXXX	Skin Sens. 1B; H317 Aquatic Chronic 3; H412	>= 1 - < 2,5

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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	>= 0,25 - < 0,5
4,4'-methylenediphenyl diisocya- nate	101-68-8 202-966-0 01-2119457014-47- XXXX	Acute Tox. 4; H332 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 % 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 mg/l	< 0,1

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m-tolylidene diisocyanate	26471-62-5 247-722-4 01-2119454791-34- XXXX	Acute Tox. 1; H330 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) Aquatic Chronic 3; H412 	>= 0,025 - < 0,1
Titanium dioxide (> 10 µm)	13463-67-7		>= 1 - < 2,5
	236-675-5		
	01-2119489379-17-		
	XXXX		
	13463-67-7 236-675-5 01-2119489379-17-		>= 1 - < 2,5

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 attend	Jance.
If inhaled	Move to fresh air. Consult a physician after significant exposure.	
In case of skin contact	<ul> <li>Take off contaminated clothing and shoes immedi</li> <li>Wash off with soap and plenty of water.</li> <li>If symptoms persist, call a physician.</li> </ul>	ately.
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**

<b>5.1 Extinguishing media</b> 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 releas	se r	neasures

# 6.1 Personal precautions, protective equipment and emergency procedures

o. The isonal precadions, 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. If the product contaminates rivers and lakes or drains inform respective authorities.					
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,
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acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

#### 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 :		<ul> <li>Avoid exceeding the given occupational exposure limits (see section 8).</li> <li>Do not get in eyes, on skin, or on clothing.</li> <li>For personal protection see section 8.</li> <li>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.</li> <li>Smoking, eating and drinking should be prohibited in the application area.</li> <li>Follow standard hygiene measures when handling chemical products</li> </ul>
	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, inc	clu	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 *	

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Titanium dioxide (> 10 μm)	13463-67-7	NDS (inhalable fraction)	10 mg/m3	PL OEL	
4,4'-methylenediphenyl diisocyanate	101-68-8	NDS	0,03 mg/m3	PL OEL	
		NDSch	0,09 mg/m3	PL OEL	
m-tolylidene diisocyanate	26471-62-5	NDS	0,007 mg/m3	PL OEL	
		NDSch	0,021 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 Eye/face protection Safety glasses with side-shields conforming to EN166 Eve wash bottle with pure water : Chemical-resistant, impervious gloves complying with an ap-Hand protection proved 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. In case of inadequate ventilation wear respiratory protection. Respiratory protection Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working 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 - Methods for determining inhalation exposure). This applies in particular 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 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 paste various
Odour	:	odourless
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 o	avn	losive limits
Upper explosion limit / Up- per flammability limit	•	
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	> 101 °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, kinematic	:	> 20,5 mm2/s (40 °C)
<b>Solubility(ies)</b> Water solubility	:	insoluble
Partition coefficient: n- octanol/water	:	No data available



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Vapour pressure	: 0,01 hPa	
Density	: ca. 1,60 g/ml (20 °C)	
Relative vapour density	: No data available	
Particle characteristics	: No data available	
9 2 Other information		

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

#### **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 based on available information.

#### **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	
ountry PL 10000033058			

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#### Method: OECD Test Guideline 402

Hardener LI (Isophoronedial Acute oral toxicity	ldir :	<b>nine):</b> LD50 Oral (Rat): > 2.000 mg/kg
Acute dermal toxicity	:	LD50 Dermal (Rabbit): > 2.000 mg/kg
Pentamethyl piperidylsebaca	ate	:
Acute oral toxicity	:	LD50 Oral (Rat): 3.230 mg/kg
4,4'-methylenediphenyl diiso	су	anate:
Acute oral toxicity	:	LD50 Oral (Rat): > 5.000 mg/kg Method: OECD Test Guideline 401
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
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 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.

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#### **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.

#### **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:

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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	
<b>12.2 Persistence and degradabil</b> No data available	lity		
<b>12.3 Bioaccumulative potential</b> No data available			
<b>12.4 Mobility in soil</b> No data available			
12.5 Results of PBT and vPvB as	sse	ssment	
Product:			
Assessment	:	This substance/mixture contains no compo- to be either persistent, bioaccumulative and very persistent and very bioaccumulative (v 0.1% or higher	d toxic (PBT), or
12.6 Endocrine disrupting prope	ertie	25	
		-	
<u>Product:</u> Assessment	:	The substance/mixture does not contain co ered to have endocrine disrupting propertie REACH Article 57(f) or Commission Delega (EU) 2017/2100 or Commission Regulation levels of 0.1% or higher.	es according to ated regulation
12.7 Other adverse effects			
Product:			
Additional ecological infor- mation	:	An environmental hazard cannot be exclud unprofessional handling or disposal. Harmful to aquatic life with long lasting effe	
SECTION 13: Disposal consid	dera	ations	
13.1 Waste treatment methods			
Product	:	The generation of waste should be avoided wherever possible. Empty containers or liners may retain some This material and its container must be dis	e product residues.

way.

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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.

#### **SECTION 14: Transport information**

#### 14.1 UN number or ID number

ADR	:	Not regulated as a dangerous good			
IMDG	:	Not regulated as a dangerous good			
ΙΑΤΑ	:	Not regulated as a dangerous good			
14.2 UN proper shipping name					
ADR	:	Not regulated as a dangerous good			
IMDG	:	Not regulated as a dangerous good			
ΙΑΤΑ	:	Not regulated as a dangerous good			
14.3 Transport hazard class(es)					
ADR	:	Not regulated as a dangerous good			
IMDG	:	Not regulated as a dangerous good			
ΙΑΤΑ	:	Not regulated as a dangerous good			
14.4 Packing group					
ADR	:	Not regulated as a dangerous good			
IMDG	:	Not regulated as a dangerous good			
IATA (Cargo)	:	Not regulated as a dangerous good			
IATA (Passenger)	:	Not regulated as a dangerous good			
14.5 Environmental hazards					
Not regulated as a dangerous good					
<b>14.6 Special precautions for user</b> 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 of	r mixture
Country PL 10000033058	13 / 17

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International Chemical Weap Schedules of Toxic Chemical		:	Not applicable
REACH Information:	All substances contai - registered by our up - registered by us, an - excluded from the re - exempted from the re	ostrea id/or egula	am suppliers, and/or ition, and/or
REACH - Restrictions on the the market and use of certain mixtures and articles (Annex	dangerous substances,	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 75, 3
			1,2-Benzenedicarboxylic acid, di-C9- 11-branched alkyl esters, C10-rich (Number on list 52)
REACH - Candidate List of S Concern for Authorisation (Ar		:	None of the components are listed (=> 0.1 %).
REACH - List of substances s (Annex XIV)	subject to authorisation	:	Not applicable
Regulation (EC) No 1005/200 plete the ozone layer	9 on substances that de-	:	Not applicable
Regulation (EU) 2019/1021 o tants (recast)	n persistent organic pollu-	:	Not applicable
Regulation (EU) No 649/2012 ment and the Council concern of dangerous chemicals		:	Not applicable
Seveso III: Directive 2012/18/ jor-accident hazards involving	•	ment	t and of the Council on the control of ma-
Volatile organic compounds	: Law on the incentive (VOCV) no VOC duties	tax fo	or volatile organic compounds
			4 November 2010 on industrial ution prevention and control)

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#### 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, 93/105/EC and 2000/21/EC (Official Journal of the European Union L 396 from 30.12.2006, as amended).

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

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

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

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

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

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

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

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

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

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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

I un text of II-Statement	.5	
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.
H412	:	Harmful to aquatic life with long lasting effects.
H413	:	May cause long lasting harmful effects to aquatic life.
Full text of other abbrev	lations	
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
PL OEL	:	Ordinance of the Minister of Family, Labour and Social Policy
		of 12 June 2018 concerning the highest allowable concentra-
		tions and levels of the agents harmful for health in the work-
		place (Dz.U 2018 pos 1286, with later amendments)
PL OEL / NDS	:	Maximal Admissible Concentration
PL OEL / NDSch	:	Maximal Admissible Temporary Concentration
ADR	:	European Agreement concerning the International Carriage of
		Dangerous Goods by Road
CAS	:	Chemical Abstracts Service
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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
		once, which causes the death of 50% (one half) of a group of
LC50		test animals)
LC50	•	Median lethal concentration (concentrations of the chemical in
		air that kills 50% of the test animals during the observation
		period)
MARPOL	:	International Convention for the Prevention of Pollution from
		Ships, 1973 as modified by the Protocol of 1978
OEL	:	Occupational Exposure Limit
PBT	:	Persistent, bioaccumulative and toxic
PNEC	:	Predicted no effect concentration
REACH	:	Regulation (EC) No 1907/2006 of the European Parliament
		and of the Council of 18 December 2006 concerning the Reg-
		istration, Evaluation, Authorisation and Restriction of Chemi-
		cals (REACH), establishing a European Chemicals Agency
SVHC		Substances of Very High Concern
vPvB	:	Very persistent and very bioaccumulative
	•	very persistent and very bloacculturative

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#### **Further information**

Classification of the mixtur	Classification procedure:	
Skin Sens. 1	H317	Calculation method
Aquatic Chronic 3	H412	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 !

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