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

#### 1.1 Product identifier

Trade name : Sikasil<sup>®</sup> AS-787 SL (B)

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

Product use : Catalyst for 2 Comp. sealants/adhesives.

#### 1.3 Details of the supplier of the safety data sheet

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

#### 1.4 Emergency telephone number

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

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

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

Flammable liquids, Category 3 Acute toxicity, Category 4 Serious eye damage, Category 1 Skin sensitisation, Category 1 Specific target organ toxicity - single exposure, Category 3, Respiratory system Specific target organ toxicity - repeated exposure, Category 1 H226: Flammable liquid and vapour.

- H302: Harmful if swallowed.
- H318: Causes serious eye damage.
- H317: May cause an allergic skin reaction.
- H335: May cause respiratory irritation.

H372: Causes damage to organs through prolonged or repeated exposure if inhaled.

#### 2.2 Label elements

# Labelling (REGULATION (EC) No 1272/2008) Hazard pictograms : Signal word : Hazard statements : Hazard statements :

Country GB 00000608527



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	H302 H317 H318 H335 H372	Harmful if swallowed. May cause an allergic skin reac Causes serious eye damage. May cause respiratory irritation. Causes damage to organs thro or repeated exposure if inhaled	ugh prolonged
Precautionary statements :	<b>Prevention:</b> P210 P260 P264 P280	Keep away from heat, hot surfa open flames and other ignition s smoking. Do not breathe mist or vapours Wash skin thoroughly after han Wear protective gloves/ protect eye protection/ face protection.	sources. No dling.
	<b>Response:</b> P305 + P351 + P370 + P378	P338 + P310 IF IN EYES: Rins with water for several minutes. tact lenses, if present and easy tinue rinsing. Immediately call a CENTER/ doctor. In case of fire: Use dry sand, dr alcohol-resistant foam to exting	Remove con- to do. Con- POISON y chemical or

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

4,4,7,7-tetraethoxy-3,8-dioxa-4,7-disiladecane N-[3-(triethoxysilyl)propyl]ethylenediamine trimethoxyvinylsilane

#### 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)
4,4,7,7-tetraethoxy-3,8-dioxa-4,7- disiladecane	16068-37-4 240-212-2 01-2120764364-51- XXXX	Acute Tox. 3; H301 Acute Tox. 4; H312 STOT SE 3; H335 (Respiratory system) STOT RE 1; H372 Aquatic Chronic 3; H412 Acute toxicity esti- mate Acute oral toxicity: 161 mg/kg Acute dermal toxicity: 1.971 mg/kg	>= 10 - < 20
N-[3- (triethoxysi- lyl)propyl]ethylenediamine Contains: N,N'-bis[3- (triethoxysi- lyl)propyl]ethylenediamine >= 15 - <= 20 % di- aminoethylaminopropyltetraethox- ydisiloxane >= 3 - <= 5 %	5089-72-5 225-806-1 01-2120767929-30- XXXX	Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317	>= 5 - < 10
trimethoxyvinylsilane Contains: tetramethyl orthosilicate <= 0,2 %	2768-02-7 220-449-8 01-2119513215-52- XXXX	Flam. Liq. 3; H226 Acute Tox. 4; H332 Skin Sens. 1B; H317 Acute toxicity esti- mate Acute inhalation tox- icity (vapour): 16,8 mg/l	>= 5 - < 10
tetraethyl silicate	78-10-4 201-083-8 01-2119496195-28- XXXX	Flam. Liq. 3; H226 Acute Tox. 4; H332 Eye Irrit. 2; H319 STOT SE 3; H335	>= 5 - < 10

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87061-56-1		
	Acute Tox. 3; H301	>= 2,5 - < 5
Not Assigned	Acute Tox. 4; H312	
	Aquatic Chronic 3;	
	•	
	Lonori	
	-	
	mate	
	Acute oral toxicity:	
	161 mg/kg	
	Not Assigned	

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	<ul> <li>Small amounts splashed into eyes can cause irreversible tissue damage and blindness.</li> <li>In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</li> <li>Continue rinsing eyes during transport to hospital.</li> <li>Remove contact lenses.</li> <li>Keep eye wide open while rinsing.</li> </ul>
If swallowed	<ul> <li>Do not induce vomiting without medical advice.</li> <li>Rinse mouth with water.</li> <li>Do not give milk or alcoholic beverages.</li> <li>Never give anything by mouth to an unconscious person.</li> </ul>
4.2 Most important sympton	ns and effects, both acute and delayed
Symptoms	: Gastrointestinal discomfort Cough Respiratory disorder Allergic reactions Excessive lachrymation



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	See Section 11 fo and symptoms.	or more detailed informa	ation on health effects
Risks	irritant effects sensitising effects	s	
	Causes serious e May cause respir	ergic skin reaction. eye damage. ratory irritation. to organs through prolo	nged or repeated
4.3 Indication of any immediate r			eeded
Treatment	Treat symptomat	icany.	
Treatment SECTION 5: Firefighting meas			
SECTION 5: Firefighting meas		foam	
SECTION 5: Firefighting meas	<b>'es</b> Alcohol-resistant Carbon dioxide (f	foam	
SECTION 5: Firefighting meas 5.1 Extinguishing media Suitable extinguishing media Unsuitable extinguishing media	<b>res</b> Alcohol-resistant Carbon dioxide ( Dry chemical Water	foam CO2)	
SECTION 5: Firefighting meas 5.1 Extinguishing media Suitable extinguishing media Unsuitable extinguishing	Alcohol-resistant Carbon dioxide ( Dry chemical Water	foam CO2) <b>ixture</b>	known
<ul> <li>SECTION 5: Firefighting meas</li> <li>5.1 Extinguishing media</li> <li>Suitable extinguishing media</li> <li>Unsuitable extinguishing media</li> <li>5.2 Special hazards arising from Hazardous combustion products</li> </ul>	Alcohol-resistant Carbon dioxide ( Dry chemical Water	foam CO2) <b>ixture</b>	known
<ul> <li>SECTION 5: Firefighting meas</li> <li>5.1 Extinguishing media</li> <li>Suitable extinguishing media</li> <li>Unsuitable extinguishing media</li> <li>5.2 Special hazards arising from Hazardous combustion prod-</li> </ul>	Alcohol-resistant Carbon dioxide ( Dry chemical Water e substance or mi No hazardous co	foam CO2) <b>ixture</b> ombustion products are l	

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: Use personal protective equipment. Remove all sources of ignition. Deny access to unprotected persons. Beware of vapours accumulating to form explosive concentra-
	tions. Vapours can accumulate in low areas.



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6.2 Environmental precautions		
Environmental precautions :	Prevent product from entering drains. If the product contaminates rivers and lakes or respective authorities.	<sup>-</sup> drains inform
6.3 Methods and material for conta	inment and cleaning up	
Methods for cleaning up :	Contain spillage, and then collect with non-con sorbent material, (e.g. sand, earth, diatomaced miculite) and place in container for disposal ac / national regulations (see section 13).	ous earth, ver-

#### 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>Take precautionary measures against static discharge.</li> <li>Open drum carefully as content may be under pressure.</li> <li>Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).</li> <li>Follow standard hygiene measures when handling chemical products</li> </ul>
Advice on protection against : fire and explosion	Use explosion-proof equipment. Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. Take precautionary measures against electrostatic discharges.
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, incl	uding any incompatibilities
Requirements for storage : areas and containers	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re- sealed and kept upright to prevent leakage. Store in accord- ance with local regulations.



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Further information on stor- age stability	:	No decomposition if stored and applied as direct	ed.
7.3 Specific end use(s) Specific use(s)	:	Consult most current local Product Data Sheet p use.	rior to any

## **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 *
tetraethyl silicate	78-10-4	TWA	5 ppm 44 mg/m3	2017/164/EU
	Further information	ation: Indicative		
		TWA	5 ppm 44 mg/m3	GB EH40
		ation: Where no spe three times the long		

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

#### Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form	Control parame-	Basis *		
Components	CAS-NO.	Value type (Form		Dasis		
		of exposure)	ters *			
ethanol	64-17-5	TWA	1.000 ppm	GB EH40		
			1.920 mg/m3			
	Further inform	Further information: Where no specific short-term exposure limit is				
	listed, a figure	listed, a figure three times the long-term exposure limit should be				
	used.					
methanol	67-56-1	TWA	200 ppm	2006/15/EC		
			260 mg/m3			
	Further inform	Further information: Indicative, Identifies the possibility of signifi-				
	cant uptake th	cant uptake through the skin				
		TWA	200 ppm	GB EH40		
			266 mg/m3			
	Further information: Can be absorbed through the		kin. The as-			
	signed substa	signed substances are those for which there are concerns that				
	dermal absor	dermal absorption will lead to systemic toxicity.				
		STEL	250 ppm	GB EH40		
			333 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.



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Ensure adequate ventilation, especially in confined areas.

Personal protective equipment	ht
Eye 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) 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	<ul> <li>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)</li> </ul>
	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

General advice	: Prevent product from entering drains.
	If the product contaminates rivers and lakes or drains inform
	respective authorities.

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

#### 9.1 Information on basic physical and chemical properties

Physical state Colour Odour	:	liquid clear slight
Melting point/range / Freezing point	:	No data available
Boiling point/boiling range	:	No data available



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Flammability (solid, gas)	:	No data available	
Upper/lower flammability or	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. 47 °C Method: closed cup	
Auto-ignition temperature	:	No data available	
Decomposition temperature	:	No data available	
рН	:	ca. 8 - 10 Concentration: 100 %	
Viscosity			
Viscosity, dynamic	:	ca. 1.576 mPa.s (20 °C)	
Viscosity, kinematic	:	> 20,5 mm2/s (40 °C)	
Solubility(ies)			
Water solubility	:	No data available	
Partition coefficient: n- octanol/water	:	No data available	
Vapour pressure	:	0,01 hPa	
Density	:	ca. 0,97 g/cm3 (20 °C)	
Relative vapour density	:	No data available	
Particle characteristics	:	No data available	

No data available

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.



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10.2 Chemical stability		
The product is chemically sta	е.	
10.3 Possibility of hazardous re	ctions	
Hazardous reactions	: Stable under recommended storage cond	itions.
	Vapours may form explosive mixture with	air.
10.4 Conditions to avoid		
Conditions to avoid	: Heat, flames and sparks.	
10.5 Incompatible materials		
Materials to avoid	: No data available	
10.6 Hazardous decomposition	roducts	
Hazardous decomposition products	: ethanol, methanol	

## **SECTION 11: Toxicological information**

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

#### Acute toxicity

Harmful if swallowed.

## Components:

#### 4,4,7,7-tetraethoxy-3,8-dioxa-4,7-disiladecane:

Acute oral toxicity	:	LD50 Oral (Rat): 161 mg/kg
		Acute toxicity estimate: 161 mg/kg Method: Calculation method
Acute dermal toxicity	:	LD50 Dermal (Rat): 1.971 mg/kg
		Acute toxicity estimate: 1.971 mg/kg Method: Calculation method
trimethoxyvinylsilane:		
Acute oral toxicity	:	LD50 Oral (Rat): ca. 7.120 mg/kg
Acute inhalation toxicity	:	LC50: ca. 16,8 mg/l
		Exposure time: 4 h Test atmosphere: vapour



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	Test atmosphere: vapour Method: Calculation method			
Acute dermal toxicity	LD50: 3.540 mg/kg			
<b>1,2-Bis(triethoxysilyl)ethene:</b> Acute oral toxicity	LD50 Oral (Rat): 161 mg/kg			
	Acute toxicity estimate: 161 mg/kg Method: Calculation method			
Acute inhalation toxicity	Assessment: Corrosive to the respiratory tract.			
Acute dermal toxicity	LD50 Dermal (Rat): 1.971 mg/kg			
	Acute toxicity estimate: 1.971 mg/kg Method: Calculation method			
Skin corrosion/irritation Not classified based on availab	e information.			
Serious eye damage/eye irrita Causes serious eye damage.	tion			
Respiratory or skin sensitisat	ion			
<b>Skin sensitisation</b> May cause an allergic skin reac	ion.			
<b>Respiratory sensitisation</b> Not classified based on availab	Respiratory sensitisation Not classified based on available information.			
<b>Germ cell mutagenicity</b> Not classified based on availab	e information.			
<b>Carcinogenicity</b> Not classified based on availab	e information.			
<b>Reproductive toxicity</b> Not classified based on availab	e information.			
<b>STOT - single exposure</b> May cause respiratory irritation.				
STOT - repeated exposure Causes damage to organs thro	gh prolonged or repeated exposure if inhaled.			
Aspiration toxicity Not classified based on availab				



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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:**

#### N-[3-(triethoxysilyl)propyl]ethylenediamine:

Toxicity to fish (Chronic tox-	:	LC50: 597 mg/l
icity)		Exposure time: 96 h
		Species: Danio rerio (zebra fish)

#### 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
	(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.



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#### 12.7 Other adverse effects

#### Product:

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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 minimize wherever possible. Empty containers or liners may retain some product res This material and its container must be disposed of in a way. Dispose of surplus and non-recyclable products via a lic waste disposal contractor. Disposal of this product, solutions and any by-products at all times comply with the requirements of environmer protection and waste disposal legislation and any region local authority requirements. Avoid dispersal of spilled material and runoff and contact soil, waterways, drains and sewers.	idues. safe censed should ntal nal
European Waste Catalogue	08 04 09* waste adhesives and sealants containing org solvents or other dangerous substances	janic
Contaminated packaging	15 01 10* packaging containing residues of or contamin by dangerous substances	ated

## **SECTION 14: Transport information**

14.1 UN number		
ADR	:	UN 1993
IMDG	:	UN 1993
ΙΑΤΑ	:	UN 1993
14.2 UN proper shipping name		
ADR	:	FLAMMABLE LIQUID, N.O.S. (trimethoxyvinylsilane)
IMDG	:	FLAMMABLE LIQUID, N.O.S. (trimethoxyvinylsilane)
ΙΑΤΑ	:	Flammable liquid, n.o.s. (trimethoxyvinylsilane)

#### 14.3 Transport hazard class(es)

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According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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ADR	:	3	
IMDG	:	3	
ΙΑΤΑ	:	3	
14.4 Packing group			
<b>ADR</b> Packing group Classification Code Hazard Identification Number Labels Tunnel restriction code	:	III F1 30 3 (D/E)	
<b>IMDG</b> Packing group Labels EmS Code	:	III 3 F-E, S-E	
IATA (Cargo) Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group Labels	:	366 Y344 III Flammable Liquids	
<b>IATA (Passenger)</b> Packing group Labels	:	III Flammable Liquids	
14.5 Environmental hazards			
<b>ADR</b> Environmentally hazardous	:	no	
IMDG Marine pollutant	:	no	
IATA (Passenger) Environmentally hazardous	:	no	
IATA (Cargo) Environmentally hazardous	:	no	
14.6 Special precautions for user	-		

#### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.



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## **SECTION 15: Regulatory information**

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Brit- ain)			Not applicable Not applicable Not applicable
International Chemical Weapons Schedules of Toxic Chemicals an	:	Not applicable	
Regulation (EC) No 1005/2009 or plete the ozone layer	:	Not applicable	
UK REACH List of substances subject to authorisation (Annex XIV)		:	Not applicable
GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation		•	Not applicable
Control of Major Accident Hazard 2015 (COMAH)	FLA	MMABLE LIQUIDS	
Volatile organic compounds :	Law on the incentive tax for volatile organic compounds (VOCV) Volatile organic compounds (VOC) content: < 0% 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: 0% w/w		

If other regulatory information applies that is not already provided elsewhere in the Safety Data Sheet, then it is described in this subsection.

Health, safety and environ- mental regulation/legislation specific for the substance or mixture:	: Environmental Protection Act 1990 & Subsidiary Regulations Health and Safety at Work Act 1974 & Subsidiary Regulations Control of Substances Hazardous to Health Regulations (COSHH)
	May be subject to the Control of Major Accident Hazards
	Regulations (COMAH), and amendments.

#### 15.2 Chemical safety assessment

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



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# **SECTION 16: Other information**

Full text of H-Statements		
H226		Elemmetric liquid and vanour
	•	Flammable liquid and vapour.
H301	:	Toxic if swallowed.
H312	:	Harmful in contact with skin.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H319	•	Causes serious eye irritation.
H332		Harmful if inhaled.
H335	:	May cause respiratory irritation.
H372	:	Causes damage to organs through prolonged or repeated
11372	•	
11440		exposure if inhaled.
H412	:	Harmful to aquatic life with long lasting effects.
Full text of other abbreviat	ions	
Acute Tox.	:	Acute toxicity
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	•	Serious eye damage
Eye Irrit.		Eye irritation
Flam. Liq.	:	Flammable liquids
Skin Irrit.	:	Skin irritation
	•	
Skin Sens.	:	Skin sensitisation
STOT RE	:	Specific target organ toxicity - repeated exposure
STOT SE	:	Specific target organ toxicity - single exposure
2006/15/EC	:	Europe. Indicative occupational exposure limit values
2017/164/EU	:	Europe. Commission Directive 2017/164/EU establishing a
		fourth list of indicative occupational exposure limit values
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
2006/15/EC / TWA	:	Limit Value - eight hours
2017/164/EU / TWA		Limit Value - eight hours
GB EH40 / TWA		Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	:	Short-term exposure limit (15-minute reference period)
ADR	:	
ADR	•	European Agreement concerning the International Carriage of
040		Dangerous Goods by Road
CAS	:	Chemical Abstracts Service
DNEL	:	Derived no-effect level
EC50	:	Half maximal effective concentration
GHS	:	Globally Harmonized System
ΙΑΤΑ	:	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
		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



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OEL PBT PNEC REACH	<ul> <li>Persistent, bio</li> <li>Predicted no e</li> <li>Regulation (EC and of the Cou istration, Evalu</li> </ul>	Occupational Exposure Limit Persistent, bioaccumulative and toxic Predicted no effect concentration 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 vPvB		Substances of Very High Concern Very persistent and very bioaccumulative		
Further information Classification of the mixtu		Classification pro	ocedure:	
Flam. Liq. 3	H226	-	data or assessment	
Acute Tox. 4	H302	Calculation metho		
Eye Dam. 1	H318	Calculation metho	d	
Skin Sens. 1	H317	Calculation metho	d	
STOT SE 3	H335	Calculation metho	d	
STOT RE 1	H372	Calculation metho	d	

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.

Changes as compared to previous version !

GB / EN