# Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

# **SAFETY DATA SHEET**



TEKNOL 1881-15 - All variants

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

#### 1.1 Product identifier Product name

: TEKNOL 1881-15 - All variants

**1.2 Relevant identified uses of the substance or mixture and uses advised againstProduct use**: Paint.

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

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

e-mail address of person : Prod-safe@teknos.com responsible for this SDS

### **National contact**

Teknos (UK) Limited, 7 Longlands Rd, Bicester, Oxfordshire OX26 5AH, United Kingdom. Tel. +44 (0) 1869 208005.

### 1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : NHS: 111

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

2.1 Classification of the substance or mixture

Product definition : Mixture

**Classification according to UK CLP/GHS** 

Skin Sens. 1, H317 Aquatic Chronic 3, H412

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

Hazard pictograms



Signal word	Warning	
Hazard statements	H317 - May cause an allergic skin reaction. H412 - Harmful to aquatic life with long lasting effects.	
Precautionary statements		
Prevention	P280 - Wear protective gloves. P273 - Avoid release to the environment. P261 - Avoid breathing vapour.	
Response	P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water.	
Storage	Not applicable.	
Disposal	P501 - Dispose of contents and container in accordance with all local, regionational and international regulations.	onal,

# SECTION 2: Hazards identification

Supplemental label elements	:	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. Contains biocidal products for dry film and in-can preservation: IPBC and DCOIT and BIT and MIT and OIT. Risk of skin sensitisation.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	:	None known.

### **SECTION 3: Composition/information on ingredients**

B.2 Mixtures :	Mixture			
Product/ingredient name	Identifiers	%	Classification	Туре
Manium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≤10	Carc. 2, H351 (inhalation)	[1] [*]
2-Butoxyethanol	REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0	<1	Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1] [2]
2-(2-butoxyethoxy)ethanol	REACH #: 01-2119475104-44 EC: 203-961-6 CAS: 112-34-5 Index: 603-096-00-8	<1	Eye Irrit. 2, H319	[1] [2]
(Z)-9-Octadecen-1-ol ethoxylated	EC: 500-016-2 CAS: 9004-98-2	≤0.3	Skin Irrit. 2, H315 Aquatic Acute 1, H400 (M=1)	[1]
Reaction mass of ethylbenzene and xylene	REACH #: 01-2119488216-32 01-2119486136-34 EC: 905-588-0	≤0.3	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (inhalation) Asp. Tox. 1, H304	[1] [2]
3-iodo-2-propynyl-butyl carbamat	e EC: 259-627-5 CAS: 55406-53-6 Index: 616-212-00-7	≤0.2	Acute Tox. 4, H302 Acute Tox. 3, H331 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 1, H372 (larynx) Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)	[1]
Propylene glycol	REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6	≤0.3	Not classified.	[2]
2-ethylhexanoic acid, zirconium	REACH #:	≤0.1	Repr. 2, H361d	[1] [2]
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salt	01-2119979088-21			
	EC: 245-018-1			
	CAS: 22464-99-9			
Ammonia	REACH #:	<0.1	Skin Corr. 1B, H314	[1] [2]
	01-2119488876-14		Eye Dam. 1, H318	
	EC: 215-647-6		STOT SE 3, H335	
	CAS: 1336-21-6		Aquatic Acute 1, H400	
2-aminoethanol	Index: 007-001-01-2 EC: 205-483-3	≤0.1	(M=1) Acute Tox. 4, H302	[1] [2]
z-aminoeuranoi	CAS: 141-43-5	50.1	Acute Tox. 4, H302 Acute Tox. 4, H312	[1] [2]
	Index: 603-030-00-8		Acute Tox. 4, H332	
			Skin Corr. 1B, H314	
			Eye Dam. 1, H318	
			STOT SE 3, H335	
4,5-dichloro-2-octyl-2H-isothiazol-	EC: 264-843-8	≤0.022	Acute Tox. 4, H302	[1]
3-one	CAS: 64359-81-5		Acute Tox. 2, H330	
	Index: 613-335-00-8		Skin Corr. 1, H314	
			Eye Dam. 1, H318	
			Skin Sens. 1A, H317	
			Aquatic Acute 1, H400	
			(M=100) Aquatic Chronic 1,	
			H410 (M=100)	
			EUH071	
2-methyl-2H-isothiazol-3-one	EC: 220-239-6	<0.01	Acute Tox. 3, H301	[1]
<b>,</b>	CAS: 2682-20-4		Acute Tox. 3, H311	
			Acute Tox. 2, H330	
			Skin Corr. 1B, H314	
			Eye Dam. 1, H318	
			Skin Sens. 1A, H317	
			Aquatic Acute 1, H400	
			(M=10)	
			Aquatic Chronic 1, H410 (M=1)	
			EUH071	
Quartz (SiO2)	EC: 238-878-4	≤0.1	STOT RE 2, H373	[1] [2]
	CAS: 14808-60-7	_ <b></b> .,		
			See Section 16 for	
			the full text of the H	
			statements declared	
			above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

### Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[\*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter  $\leq$  10 µm not bound within a matrix.

Occupational exposure limits, if available, are listed in Section 8.

# SECTION 4: First aid measures

### 4.1 Description of first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### SECTION 4: First aid measures

Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

### 4.2 Most important symptoms and effects, both acute and delayed

### Over-exposure signs/symptoms

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

### **SECTION 5: Firefighting measures**

5.1 Extinguishing media		
Suitable extinguishing media	:	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	:	None known.
5.2 Special hazards arising fro	on	the substance or mixture
Hazards from the substance or mixture	:	In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
5.3 Advice for firefighters		
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
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SECTION 6: Accident	al release measures
6.1 Personal precautions, pro	tective equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and material for	containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
6.4 Reference to other	: See Section 1 for emergency contact information.

sections

See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

### **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

### 7.3 Specific end use(s)

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### **SECTION 7: Handling and storage**

Recommendations
Industrial sector specific

8.1 Control parameters

Not available.Not available.

solutions

**SECTION 8: Exposure controls/personal protection** 

#### **Occupational exposure limits** EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed 2-Butoxyethanol through skin. STEL: 50 ppm 15 minutes. TWA: 25 ppm 8 hours. STEL: 246 mg/m<sup>3</sup> 15 minutes. TWA: 123 mg/m<sup>3</sup> 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). 2-(2-butoxyethoxy)ethanol TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. TWA: 67.5 mg/m<sup>3</sup> 8 hours. STEL: 101.2 mg/m<sup>3</sup> 15 minutes. Reaction mass of ethylbenzene and xylene EU OEL (Europe). TWA: 50 ppm TWA: 221 mg/m<sup>3</sup> STEL: 100 ppm STEL: 442 mg/m<sup>3</sup> EH40/2005 WELs (United Kingdom (UK), 1/2020). Propylene glycol TWA: 10 mg/m<sup>3</sup> 8 hours. Form: Particulate TWA: 474 mg/m<sup>3</sup> 8 hours. Form: total vapour and particulates TWA: 150 ppm 8 hours. Form: total vapour and particulates 2-ethylhexanoic acid, zirconium salt EH40/2005 WELs (United Kingdom (UK), 1/2020). [zirconium compounds as Zr] STEL: 10 mg/m<sup>3</sup>, (as Zr) 15 minutes. TWA: 5 mg/m<sup>3</sup>, (as Zr) 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). [ammonia Ammonia anhydrous] STEL: 25 mg/m<sup>3</sup> 15 minutes. Form: anhydrous STEL: 35 ppm 15 minutes. Form: anhydrous TWA: 25 ppm 8 hours. Form: anhydrous TWA: 18 mg/m<sup>3</sup> 8 hours. Form: anhydrous 2-aminoethanol EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 7.6 mg/m<sup>3</sup> 15 minutes. STEL: 3 ppm 15 minutes. TWA: 1 ppm 8 hours. TWA: 2.5 mg/m<sup>3</sup> 8 hours. Quartz (SiO2) EH40/2005 WELs (United Kingdom (UK), 1/2020). [silica, respirable crystalline respirable fraction] TWA: 0.1 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction

### **Biological exposure indices**

Product/ingredient name	Exposure indices
2-Butoxyethanol	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Sampling time: post shift.
procedures national guid	should be made to appropriate monitoring standards. Reference to dance documents for methods for the determination of hazardous will also be required.

#### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
2-Butoxyethanol	DNEL	Long term Oral	6.3 mg/kg	General	Systemic
	DNEL	Short term Oral	bw/day 26.7 mg/	population General	Systemic
	DNEL	Long term	kg bw/day 59 mg/m³	population General	Systemic
	DNEL	Inhalation Long term	98 mg/m³	population Workers	Systemic
	DNEL	Inhalation Short term	-		
		Inhalation	147 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	246 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	426 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	1091 mg/ m³	Workers	Systemic
2-(2-butoxyethoxy)ethanol	DNEL	Long term Oral	6.25 mg/	General	Systemic
	DNEL	Long term	kg bw/day 67.5 mg/m³	population Workers	Local
	DNEL	Inhalation Short term	101.2 mg/	Workers	Local
		Inhalation	m³		
Z)-9-Octadecen-1-ol ethoxylated	DNEL	Long term Oral	25 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	87 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	294 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	1250 mg/	General	Systemic
	DNEL	Long term Dermal	kg bw/day 2080 mg/	population Workers	Systemic
Reaction mass of ethylbenzene and	DNEL	Long term	kg bw/day 221 mg/m³	Workers	Systemic
ylene	DNEL	Inhalation Short term	442 mg/m³	Workers	Systemic
	DNEL	Inhalation Long term	221 mg/m <sup>3</sup>	Workers	Local
	DNEL	Inhalation Short term	221 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL DNEL	Long term Dermal Long term	212 mg/kg 65.3 mg/m <sup>3</sup>	Workers General	Systemic Systemic
		Inhalation	Ū	population	
	DNEL	Long term Inhalation	65.3 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General	Local
	DNEL	Long term Dermal	125 mg/kg	population General	Systemic
	DNEL	Long term Oral	12.5 mg/kg	population General	Systemic
3-iodo-2-propynyl-butyl carbamate	DNEL	Long term	0.023 mg/	population Workers	Systemic
	DNEL	Inhalation Short term	m <sup>3</sup> 0.07 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Inhalation Short term	1.16 mg/m <sup>3</sup>		Local
		Inhalation	-		
	DNEL	Long term Inhalation	1.16 mg/m <sup>3</sup>		Local
	DNEL	Long term Dermal	2 mg/kg bw/day	Workers	Systemic
Propylene glycol	DNEL	Long term Inhalation	10 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term	10 mg/m³	Workers	Local

ECTION 8: Exposure cont	rois/p	personal prote	ction		
		Inhalation			
	DNEL	Long term	50 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term	168 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	_		-
2-ethylhexanoic acid, zirconium salt	DNEL	Long term	2.5 mg/m <sup>3</sup>	General	Systemic
-		Inhalation	-	population	
	DNEL	Long term Oral	2.5 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	3.25 mg/	General	Systemic
		Ū	kg bw/day	population	
	DNEL	Long term	5 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	Ĩ		-
	DNEL	Long term Dermal	6.49 mg/	Workers	Systemic
		5	kg bw/day		,
2-aminoethanol	DNEL	Long term	0.18 mg/m <sup>3</sup>	General	Systemic
		Inhalation	5	population	,
	DNEL	Long term	0.28 mg/m <sup>3</sup>	General	Local
		Inhalation	Ũ	population	
	DNEL	Long term	0.51 mg/m <sup>3</sup>	Workers	Local
		Inhalation	5		
	DNEL	Long term	1 mg/m³	Workers	Systemic
		Inhalation	°,		
	DNEL	Long term Oral	1.5 mg/kg	General	Systemic
		Ū.	bw/day	population	
	DNEL	Long term Dermal	1.5 mg/kg	General	Systemic
			bw/day	population	-
	DNEL	Long term Dermal	3 mg/kg	Workers	Systemic
		_	bw/day		-
2-methyl-2H-isothiazol-3-one	DNEL	Long term	0.021 mg/	General	Local
		Inhalation	m³	population	
	DNEL	Long term	0.021 mg/	Workers	Local
		Inhalation	m³		
	DNEL	Long term Oral	0.027 mg/	General	Systemic
		-	kg bw/day	population	-
	DNEL	Short term	0.043 mg/	General	Local
		Inhalation	m³ Č	population	
	DNEL	Short term	0.043 mg/	Workers	Local
		Inhalation	m³		
	DNEL	Short term Oral	0.053 mg/	General	Systemic
			kg bw/day	population	-

#### **PNECs**

Product/ingredient name	<b>Compartment Detail</b>	Value	Method Detail
Reaction mass of ethylbenzene and xylene	Fresh water Marine water Sewage Treatment Plant	0.327 mg/l 0.327 mg/l 6.58 mg/l	Sensitivity Distribution Sensitivity Distribution Sensitivity Distribution
	Fresh water sediment Marine water sediment Soil	12.46 mg/kg 12.46 mg/kg 2.31 mg/kg	Equilibrium Partitioning Equilibrium Partitioning Equilibrium Partitioning

#### 8.2 Exposure controls

Appropriate engineering	:	Good general ventilation should be sufficient to control worker exposure to airborne
controls		contaminants.

#### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### **SECTION 8: Exposure controls/personal protection**

Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
	Recommendations : Wear suitable gloves tested to EN374.
	> 8 hours (breakthrough time): Nitrile gloves. thickness > 0.3 mm
	Not recommended polyvinyl alcohol (PVA) gloves
Body protection	<ul> <li>Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>
Other skin protection	<ul> <li>Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
	Filter type (spray application): A P
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

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

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Not available.

Solubility in water	: Not available.
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Partition coefficient: n-octanol/ : Not applicable.

#### water

### Vapour pressure

	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
water	17.5	2.3				
Relative density	: Not	available.				
Density	: 1.3	g/cm³				
Vapour density	: Not	available.				
Explosive properties	: Not	: Not available.				
Oxidising properties	: Not	available.				
Particle characteristics						
Median particle size	: Not	applicable.				

SECTION 10: Stability and reactivity				
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.			
10.2 Chemical stability	: The product is stable.			
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.			
10.4 Conditions to avoid	: No specific data.			
10.5 Incompatible materials	: No specific data.			
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.			

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-(2-butoxyethoxy)ethanol	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Oral	Rat	4500 mg/kg	-
Reaction mass of	LC50 Inhalation Gas.	Rat - Male	6350 ppm	4 hours
ethylbenzene and xylene				
	LD50 Dermal	Rabbit	12126 mg/kg	-
	LD50 Oral	Rat	3523 mg/kg	-
3-iodo-2-propynyl-butyl	LC50 Inhalation Dusts and	Rat	0.67 g/m <sup>3</sup>	4 hours
carbamate	mists		C C	
	LC50 Inhalation Dusts and	Rat	0.763 mg/l	4 hours
	mists			
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	400 mg/kg	-
Propylene glycol	LD50 Dermal	Rabbit	20800 mg/kg	-
	LD50 Oral	Rat	20 g/kg	-
2-ethylhexanoic acid,	LD50 Dermal	Rabbit	>5 g/kg	-
zirconium salt				
	LD50 Oral	Rat	>5 g/kg	-
Ammonia	LD50 Oral	Rat	350 mg/kg	-
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SECTION 11: Toxicological information						
2-aminoethanol	LD50 Oral	Rat	1720 mg/kg	-		
4,5-dichloro-2-octyl-2H-	LC50 Inhalation Dusts and	Rat - Male,	0.26 mg/l	4 hours		
isothiazol-3-one	mists	Female	-			
	LD50 Dermal	Rabbit	>652 mg/kg	-		
	LD50 Oral	Rat	1585 mg/kg	-		
2-methyl-2H-isothiazol-	LC50 Inhalation Dusts and	Rat	0.11 mg/l	4 hours		
3-one	mists					

#### Conclusion/Summary

: Based on available data, the classification criteria are not met.

#### Acute toxicity estimates

Route	ATE value
Inhalation (dusts and mists)	335.74 mg/l

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300	-
2-Butoxyethanol	Eyes - Moderate irritant	Rabbit	-	ug I 24 hours 100	-
	Eyes - Severe irritant	Rabbit	_	mg 100 mg	
	Skin - Mild irritant	Rabbit	_	500 mg	
2-(2-butoxyethoxy)ethanol	Eyes - Moderate irritant	Rabbit		24 hours 20	-
		Rabbit	-	mg	-
	Eyes - Severe irritant	Rabbit	-	20 mg	-
(Z)-9-Octadecen-1-ol ethoxylated	Eyes - Moderate irritant	Rabbit	-	100 uĽ	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
Reaction mass of	Eyes - Irritant	Rabbit	-	mg -	-
ethylbenzene and xylene	Respiratory - Irritant	Mammal -	_	-	-
		species			
		unspecified			
	Skin - Irritant	Rabbit	-	-	-
3-iodo-2-propynyl-butyl carbamate	Eyes - Severe irritant	Rabbit	-	-	-
Propylene glycol	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Mild irritant	Human	-	168 hours	-
	Skin - Mild irritant	Woman		500 mg 96 hours 30	
	Skin - Mila Initant	woman	-	96 HOUIS 30 %	-
	Skin - Moderate irritant	Child	-	96 hours 30	-
	Skin - Moderate irritant	Human	-	% C 72 hours 104	-
Ammonia	Eyes - Severe irritant	Rabbit	_	mg I 0.5 minutes	-
	,			1 mg	
	Eyes - Severe irritant	Rabbit	-	250 ug	-
2-aminoethanol	Eyes - Severe irritant	Rabbit	-	250 ug	-
	Skin - Moderate irritant	Rabbit	-	505 mg	-

### Conclusion/Summary

: Based on available data, the classification criteria are not met.

### **Sensitisation**

Route of exposure	Species	Result
skin	Mammal - species unspecified	Not sensitizing
skin	Guinea pig	Not sensitizing
	exposure skin	exposure Skin Mammal - species unspecified

**Conclusion/Summary** : May cause an allergic skin reaction.

### **SECTION 11: Toxicological information**

### **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
3-iodo-2-propynyl-butyl carbamate	-	Experiment: In vitro Subject: Bacteria	Negative

### Conclusion/Summary

: Based on available data, the classification criteria are not met.

### **Carcinogenicity**

It has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

#### **Reproductive toxicity**

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
3-iodo-2-propynyl-butyl carbamate	Negative	-	Negative	Rabbit - Female	Oral: 20 mg/kg	13 days; 7 days per week
	Positive	-	Negative	Rabbit - Female		13 days; 7 days per week

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

#### **Teratogenicity**

Product/ingredient name	Result	Species	Dose	Exposure
3-iodo-2-propynyl-butyl carbamate	Negative - Oral	Rabbit - Female	50 mg/kg	-

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Reaction mass of ethylbenzene and xylene	Category 3	-	Respiratory tract irritation
Ammonia	Category 3	-	Respiratory tract irritation
2-aminoethanol	Category 3	-	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Reaction mass of ethylbenzene and xylene 3-iodo-2-propynyl-butyl carbamate	Category 2 Category 1	inhalation -	- larynx
Quartz (SiO2)	Category 2	-	-

#### **Aspiration hazard**

Product/ingredient name	Result
Reaction mass of ethylbenzene and xylene	ASPIRATION HAZARD - Category 1

# Information on likely routes : Not available. of exposure

Potential acute health effects		
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	May cause an allergic skin reaction.
Ingestion	÷	No known significant effects or critical hazards.

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SECTION 11: Toxicological information			
Symptoms related to t	the physical, chemical and toxicological characteristics		
Eye contact	: No specific data.		
Inhalation	: No specific data.		
Skin contact	: Adverse symptoms may include the following: irritation redness		
Ingestion	: No specific data.		

Delayed and immediate effect	ts as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects

Product/ingredient name	Result	Species	Dose	Exposure
Reaction mass of ethylbenzene and xylene	Chronic NOAEL Oral	Rat	250 mg/kg	-
. ,	Sub-chronic NOAEL Inhalation Vapour	Rat	3515 mg/m <sup>3</sup>	13 weeks
Conclusion/Summary	: Not available.		·	
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.			
Carcinogenicity	: No known significant effe	ects or critical haz	ards.	
Mutagenicity	: No known significant effe	ects or critical haz	ards.	
Reproductive toxicity	: No known significant effe	ects or critical haz	arde	

### **Other information** : Not available.

## **SECTION 12: Ecological information**

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Water flea - <i>Ceriodaphnia dubia</i> - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - Water flea - Daphnia pulex - Neonate	48 hours
	Acute LC50 >1000000 μg/l Marine water	Fish - Mummichog - <i>Fundulus heteroclitus</i>	96 hours
2-Butoxyethanol	Acute EC50 >1000 mg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i> magna	48 hours
	Acute LC50 800000 µg/l Marine water	Crustaceans - Common shrimp, sand shrimp - Crangon crangon	48 hours
	Acute LC50 1250000 µg/l Marine water	Fish - Inland silverside - Menidia beryllina	96 hours
2-(2-butoxyethoxy)ethanol	Acute LC50 1300000 µg/l Fresh water	Fish - Bluegill - <i>Lepomis</i> 96 ho macrochirus	
Reaction mass of ethylbenzene and xylene	Acute EC50 2.2 mg/l	Algae	72 hours
, ,	Acute LC50 2.6 mg/l	Fish	96 hours
	Chronic NOEC 0.96 mg/l	Daphnia	7 days
3-iodo-2-propynyl-butyl carbamate	Acute EC50 0.022 mg/l Fresh water	Algae - Algae - Scenedemus subspicatus	72 hours
	Acute EC50 0.16 mg/l Fresh water	Daphnia - Daphnia - <i>Daphnia</i>	48 hours
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		magna	
	Acute LC50 0.067 mg/l Fresh water	Fish - Trout - Oncorhynchus	96 hours
	Acute NOEC 0.049 mg/l Fresh water	<i>mykiss</i> Fish - Trout - <i>Oncorhynchus</i>	96 hours
	Chronic NOEC 0.05 mg/l Fresh water	<i>mykiss</i> Daphnia - Daphnia - <i>Daphnia</i> Magna	21 days
Propylene glycol	Acute EC50 19300 mg/l Fresh water	<i>Magna</i> Algae - Algae	96 hours
	Acute EC50 43500 mg/l Fresh water	Daphnia - Daphnia - Daphnia magna	48 hours
	Acute LC50 18340000 µg/l Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia	48 hours
	Acute LC50 40613 mg/l Fresh water	Fish - Trout - Oncorhynchus mykiss	96 hours
Ammonia	Acute LC50 37 ppm Fresh water	Fish - Western mosquitofish - <i>Gambusia affinis</i> - Adult	96 hours
2-aminoethanol	Acute EC50 8.42 mg/l Fresh water	Algae - Green algae - Desmodesmus subspicatus	72 hours
	Acute LC50 >100000 µg/l Marine water	Crustaceans - Common shrimp, sand shrimp - <i>Crangon crangon</i> - Adult	48 hours
	Acute LC50 170 mg/l Fresh water	Fish - Goldfish - Carassius auratus	96 hours
4,5-dichloro-2-octyl-2H- sothiazol-3-one	Acute EC50 0.003 mg/l Fresh water	Algae - Green algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 18 ppb Marine water	Algae - Diatom - Skeletonema	96 hours
	Acute EC50 0.001 mg/l Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	Acute LC50 22 µg/l Fresh water	Crustaceans - Scud - Gammarus pulex	48 hours
	Acute LC50 2.7 ppb Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	96 hours
	Chronic NOEC 19.789 µg/l Marine water	Algae - Diatom - <i>Nitzschia</i> pungens	96 hours
	Chronic NOEC 0.56 ppb	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	97 days
2-methyl-2H-isothiazol-3-one	Acute EC50 0.18 ppm Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	Acute LC50 0.07 ppm Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	96 hours

### 12.2 Persistence and degradability

<b>Conclusion/Summary</b> : This product has not been tested for biodegradation.			
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Reaction mass of ethylbenzene and xylene 3-iodo-2-propynyl-butyl carbamate Propylene glycol	- -	-	Readily Not readily Readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
_		501	
2-Butoxyethanol	0.81	-	Low
2-(2-butoxyethoxy)ethanol	1	-	Low
Reaction mass of	-	25.9	Low
ethylbenzene and xylene			
3-iodo-2-propynyl-butyl carbamate	>1	-	Low
Propylene glycol	-1.07	-	Low
2-ethylhexanoic acid,	-	2.96	Low
zirconium salt			
2-aminoethanol	-1.31	_	Low

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

-	
13.1 Waste treatment meth Product	nods
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
European waste catalogue (EWC)	: 080111*, 200127*
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
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SECTION 14: Transport information				
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

14.6 Special precautions for user		<b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
14.7 Transport in bulk	:	Not relevant/applicable due to nature of the product.

### **SECTION 15: Regulatory information**

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

### UK (GB)/REACH

Annex XIV - List of substances subject to authorisation

### Annex XIV

according to IMO instruments

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

### **Ozone depleting substances**

Not listed.

#### **Prior Informed Consent (PIC)**

Not listed.

#### Persistent Organic Pollutants Not listed.

# Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

No listed substance

#### **Seveso Directive**

This product is not controlled under the Seveso Directive.

#### National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
( , , , , , , , , , , , , , , , , , , ,		silica, respirable crystalline respirable fraction	Carc.	-

### EU regulations

Industrial emissions (integrated pollution prevention and control) - Air	: Not listed	
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed	
International regulations		
Chamical Waapan Conventi	ion List Schodulas LILS	,

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### **SECTION 15: Regulatory information**

**Montreal Protocol** 

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

15.2 Chemical safety :	This product contains substances for which	Chemical Safety Assessments are still
assessment	required.	

### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

5 1 ,
: ATE = Acute Toxicity Estimate
GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and
Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019
No. 720 and amendments
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = GB CLP-specific Hazard statement
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
SGG = Segregation Group
vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification

Classification	Justification
	Calculation method Calculation method

Full text of abbreviated H statements

H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
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.
EUH071	Corrosive to the respiratory tract.

Full text of classifications

### **SECTION 16: Other information**

SECTION 10. UL	
Acute Tox. 2	ACUTE TOXICITY - Category 2
Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 2	CARCINOGENICITY - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Corr. 1	SKIN CORROSION/IRRITATION - Category 1
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
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#### Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

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