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

SAFETY DATA SHEET



TEKNOL 4881-00 - All variants

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

1.1 Product identifier

Product name : TEKNOL 4881-00 - 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, regiona national and international regulations.	al,

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

3.2 Mixtures : I	Mixture	1	1	
Product/ingredient name	Identifiers	%	Classification	Туре
itanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≥10 - ≤25	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]
Quartz (SiO2)	EC: 238-878-4 CAS: 14808-60-7	≤1	STOT RE 2, H373	[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]
3-iodo-2-propynyl-butyl carbamate	EC: 259-627-5 CAS: 55406-53-6 Index: 616-212-00-7	≤0.19	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]
(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]
2-ethylhexanoic acid, zirconium salt	REACH #: 01-2119979088-21 EC: 245-018-1 CAS: 22464-99-9	≤0.1	Repr. 2, H361d	[1] [2]
Ammonia	REACH #: 01-2119488876-14 EC: 215-647-6 CAS: 1336-21-6	<0.1	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400	[1] [2]
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	Index: 007-001-01-2		(M=1)	
Ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≤0.1	Flam. Liq. 2, H225 Eye Irrit. 2, H319	[1] [2]
4,5-dichloro-2-octyl-2H-isothiazol- 3-one	EC: 264-843-8 CAS: 64359-81-5 Index: 613-335-00-8	≤0.023	Acute Tox. 4, H302 Acute Tox. 2, H330 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	[1]
2-methyl-2H-isothiazol-3-one	EC: 220-239-6 CAS: 2682-20-4	<0.01	Acute Tox. 3, H301 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 See Section 16 for	[1]
			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.

<u>Type</u>

[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 avelida Chack for and remove any contact langua. Continue to rings for at least 10

Eye contact	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.
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.

SECTION 4: First aid measures

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 <u>Over-exposure signs/symptoms</u>					
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

:	Use an extinguishing agent suitable for the surrounding fire.	
:	None known.	
ron	n 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.	
-	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides	
:	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.	
:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.	
	: ron :	

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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

Recomme	ndatio	ns
Industrial	sector	specific

Not available.Not available.

solutions

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits	
2-Butoxyethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 50 ppm 15 minutes. TWA: 25 ppm 8 hours. STEL: 246 mg/m ³ 15 minutes. TWA: 123 mg/m ³ 8 hours.
Quartz (SiO2)	EH40/2005 WELs (United Kingdom (UK), 1/2020). [silica, respirable crystalline respirable fraction] TWA: 0.1 mg/m ³ 8 hours. Form: Respirable fraction
2-(2-butoxyethoxy)ethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. TWA: 67.5 mg/m ³ 8 hours. STEL: 101.2 mg/m ³ 15 minutes.
Propylene glycol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m ³ 8 hours. Form: Particulate TWA: 474 mg/m ³ 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 ³ , (as Zr) 15 minutes. TWA: 5 mg/m ³ , (as Zr) 8 hours.
Ammonia	EH40/2005 WELs (United Kingdom (UK), 1/2020). [ammonia anhydrous] STEL: 25 mg/m ³ 15 minutes. Form: anhydrous STEL: 35 ppm 15 minutes. Form: anhydrous TWA: 25 ppm 8 hours. Form: anhydrous TWA: 18 mg/m ³ 8 hours. Form: anhydrous
Ethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 1000 ppm 8 hours. TWA: 1920 mg/m ³ 8 hours.

Biological exposure indices

Exposure indices
EH40/2005 BMGVs (United Kingdom (UK), 8/2018) BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Sampling time: post shift.

Recommended monitoring : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
2-Butoxyethanol	DNEL	Long term Oral	6.3 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	26.7 mg/ kg bw/day	General	Systemic
	DNEL	Long term Inhalation	59 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	98 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	147 mg/m ³	General population	Local
	DNEL	Short term Inhalation	246 mg/m ³	Workers	Local
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CTION 8: Exposure cont	-	-			
	DNEL	Short term Inhalation	426 mg/m ³	General population	Systemic
	DNEL	Short term	1091 mg/	Workers	Systemic
2-(2-butoxyethoxy)ethanol	DNEL	Inhalation Long term Oral	m³ 6.25 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Inhalation	67.5 mg/m ³	Workers	Local
	DNEL	Short term	101.2 mg/	Workers	Local
3-iodo-2-propynyl-butyl carbamate	DNEL	Inhalation Long term	m³ 0.023 mg/	Workers	Systemic
	DNEL	Inhalation Short term	m ³ 0.07 mg/m ³	Workers	Systemic
		Inhalation	_		
	DNEL	Short term Inhalation	1.16 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	1.16 mg/m ³	Workers	Local
	DNEL	Long term Dermal	2 mg/kg	Workers	Systemic
Propylene glycol	DNEL	Long term	bw/day 10 mg/m³	General	Local
	DNEL	Inhalation Long term	10 mg/m³	population Workers	Local
		Inhalation	0		
	DNEL	Long term Inhalation	50 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	168 mg/m³	Workers	Systemic
Z)-9-Octadecen-1-ol ethoxylated	DNEL	Long term Oral	25 mg/kg	General	Systemic
	DNEL	Long term	bw/day 87 mg/m³	population General	Systemic
	DNEL	Inhalation Long term	294 mg/m ³	population Workers	Systemic
	DIVEL	Inhalation	20 T mg/m		-
	DNEL	Long term Dermal	1250 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	2080 mg/	Workers	Systemic
2-ethylhexanoic acid, zirconium salt	DNEL	Long term	kg bw/day 2.5 mg/m³	General	Systemic
	DNEL	Inhalation Long term Oral	2.5 mg/kg	population General	Systemic
		Long toni ora	bw/day	population	Cyclonic
	DNEL	Long term Dermal	3.25 mg/	General	Systemic
	DNEL	Long term	kg bw/day 5 mg/m³	population Workers	Systemic
	DNEL	Inhalation Long term Dermal	6.49 mg/	Workers	Systemic
Ethanol	DNEL	Long term Oral	kg bw/day 87 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Inhalation	114 mg/m³	General population	Systemic
	DNEL	Long term Dermal	206 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	343 mg/kg	Workers	Systemic
	DNEL	Short term	bw/day 950 mg/m³	General	Local
	DNEL	Inhalation Long term	950 mg/m ³	population Workers	Systemic
		Inhalation	Ū		
	DNEL	Short term Inhalation	1900 mg/ m³	Workers	Local
2-methyl-2H-isothiazol-3-one	DNEL	Long term	0.021 mg/	General	Local
		Inhalation	m^{3}	population	Local
	DNEL	Long term	0.021 mg/	Workers	LUCAI

SECTION 8: Exposure controls/personal protection						
DNEL	Long term Oral	0.027 mg/ kg bw/day	General population	Systemic		
DNEL	Short term Inhalation	0.043 mg/ m ³	General population	Local		
DNEL	Short term Inhalation	0.043 mg/ m³	Workers	Local		
DNEL	Short term Oral	0.053 mg/ kg bw/day	General population	Systemic		

PNECs

No PNECs available

8.2 Exposure controls		
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.	;
Individual protection meas	ures	
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.	
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.	s
	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	 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. 	
Other skin protection	: 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.	
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

<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Various
Odour	: Slight
Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	:

Ingredient name	°C	°F	Method
water	100	212	
Flammability (solid, gas) Upper/lower flammability or explosive limits	ilable. Not applicable. Not applicable.		

Flash point	: Closed cup: >100°C (>212°F)
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
рН	: 8.2 to 9.3 [Conc. (% w/w): 100%]
Viscosity	: Not available.
Solubility(ies)	1 · · · · · · · · · · · · · · · · · · ·
Not available.	
Solubility in water	: Not available.

	÷.	Not available.
Partition coefficient: n-octanol/	1	Not applicable.
water		

2

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.		I			
Density	: 1.3	g/cm³					
Vapour density	: Not	available.					
Explosive properties	: 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.

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SECTION 10: Stability and reactivity

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	-
3-iodo-2-propynyl-butyl	LC50 Inhalation Dusts and	Rat	0.67 g/m³	4 hours
carbamate	mists LC50 Inhalation Dusts and mists	Rat	0.763 mg/l	4 hours
	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	-
Ethanol	LC50 Inhalation Vapour	Rat	124700 mg/m ³	4 hours
	LD50 Oral	Rat	7 g/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)	336.19 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observatior
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300 ug l	-
2-Butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
2-(2-butoxyethoxy)ethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Eyes - Severe irritant	Rabbit	-	20 mg	-
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 500 mg	-
	Skin - Mild irritant	Woman	-	96 hours 30 %	-
	Skin - Moderate irritant	Child	-	96 hours 30 % C	-
	Skin - Moderate irritant	Human	-	72 hours 104 mg I	-

(Z)-9-Octadecen-1-ol ethoxylated	Eyes - Moderate irritant	Rabbit	-	100 uL	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Ammonia	Eyes - Severe irritant	Rabbit	-	0.5 minutes 1 mg	-
	Eyes - Severe irritant	Rabbit	-	250 ug	-
Ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Moderate irritant	Rabbit	-	0.0666666667 minutes 100	-
	Even Mederate irritent	Rabbit		mg 100 uL	
	Eyes - Moderate irritant Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	400 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
		Tabbit		mg	-

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

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
3-iodo-2-propynyl-butyl carbamate	skin	Guinea pig	Not sensitizing

Conclusion/Summary : May cause an allergic skin reaction.

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		Oral: 20 mg/kg	13 days; 7 days per week
	Positive	-	Negative			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
Ammonia	Category 3		Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

S	SECTION 11: Toxicological information				
	Product/ingredient name	Category	Route of exposure	Target organs	
	Quartz (SiO2) 3-iodo-2-propynyl-butyl carbamate	Category 2 Category 1	-	- larynx	

Aspiration hazard

Not available.

Information on likely routes of exposure	:	Not available.
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.
Symptoms related to the physical sectors and the sectors of the se	sic	al, chemical and toxicological characteristics
Eye contact	:	No specific data.
Inhalation	1	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.

Potential delayed effects	Not available.	
Long term exposure		
Potential immediate effects	Not available.	
Potential delayed effects	Not available.	
Potential chronic health eff		
Not available.		
Conclusion/Summary	Not available.	
General	Once sensitized, a severe allergic reaction may occur when subsequently expos to very low levels.	sed
Carcinogenicity	No known significant effects or critical hazards.	
Mutagenicity	No known significant effects or critical hazards.	
Reproductive toxicity	No known significant effects or critical hazards.	

Other information

: Not available.

SECTION 12: Ecological information

12.1 Toxicity

SECTION 12: Ecological information

Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Water flea -	48 hours
	Acute LC50 6.5 mg/l Fresh water	<i>Ceriodaphnia dubia</i> - Neonate Daphnia - Water flea - <i>Daphnia</i> <i>pulex</i> - Neonate	48 hours
	Acute LC50 >1000000 μg/l Marine	Fish - Mummichog - <i>Fundulus</i>	96 hours
2-Butoxyethanol	water Acute EC50 >1000 mg/l Fresh water	<i>heteroclitus</i> Daphnia - Water flea - <i>Daphnia</i>	48 hours
	Acute LC50 800000 µg/l Marine water	<i>magna</i> Crustaceans - Common shrimp,	48 hours
	Acute LC50 1250000 µg/l Marine water		96 hours
2-(2-butoxyethoxy)ethanol	Acute LC50 1300000 µg/l Fresh water	<i>Menidia beryllina</i> Fish - Bluegill - <i>Lepomis</i>	96 hours
3-iodo-2-propynyl-butyl	Acute EC50 0.022 mg/l Fresh water	macrochirus Algae - Algae - Scenedemus	72 hours
carbamate	Acute EC50 0.16 mg/l Fresh water	<i>subspicatus</i> Daphnia - Daphnia - <i>Daphnia</i>	48 hours
	Acute LC50 0.067 mg/l Fresh water	magna 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		48 hours
	Acute LC50 40613 mg/l Fresh water	Fish - Trout - Oncorhynchus	96 hours
Ammonia	Acute LC50 37 ppm Fresh water	Fish - Western mosquitofish - Gambusia affinis - Adult	96 hours
Ethanol	Acute EC50 17.921 mg/l Marine water	Algae - Green algae - Ulva pertusa	96 hours
	Acute EC50 2000 μg/l Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	Acute LC50 25500 µg/l Marine water	Crustaceans - San Francisco Brine Shrimp - <i>Artemia</i>	48 hours
	Acute LC50 42000 μg/l Fresh water	franciscana - Larvae Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	4 days
	Chronic NOEC 4.995 mg/l Marine water	Algae - Green algae - Ulva pertusa	96 hours
	Chronic NOEC 100 ul/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate	21 days
	Chronic NOEC 0.375 ul/L Fresh water	Fish - Eastern mosquitofish - Gambusia holbrooki - Larvae	12 weeks
4,5-dichloro-2-octyl-2H-	Acute EC50 0.003 mg/l Fresh water	Algae - Green algae -	72 hours
isothiazol-3-one	Acute EC50 18 ppb Marine water	Pseudokirchneriella subcapitata Algae - Diatom - Skeletonema	96 hours
	Acute EC50 0.001 mg/l Fresh water	<i>costatum</i> Daphnia - Water flea - <i>Daphnia</i>	48 hours
	Acute LC50 22 μg/l Fresh water	magna Crustaceans - Scud -	48 hours
	Acute LC50 2.7 ppb Fresh water	Gammarus pulex Fish - Rainbow trout,donaldson	96 hours
	Chronic NOEC 19.789 µg/l Marine	trout - Oncorhynchus mykiss Algae - Diatom - Nitzschia	96 hours
	water Chronic NOEC 0.56 ppb	pungens Fish - Rainbow trout,donaldson	97 days
2 mothyl 24 inothiozol 2 ono	Acute EC50 0.18 ppm Fresh water	trout - <i>Oncorhynchus mykiss</i> Daphnia - Water flea - <i>Daphnia</i>	48 hours

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SECTION 12: Ecological information				
	Acute LC50 0.07 ppm Fresh water	<i>magna</i> Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i>	96 hours	
Conclusion/Summary	: Harmful to aquatic life with long last	ting effects.		

12.2 Persistence and degradability

Conclusion/Summary : This product has not been tested for biodegradation.			
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
3-iodo-2-propynyl-butyl carbamate	-	-	Not readily
Propylene glycol	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-Butoxyethanol	0.81	-	Low
2-(2-butoxyethoxy)ethanol	1	-	Low
3-iodo-2-propynyl-butyl carbamate	>1	-	Low
Propylene glycol	-1.07	-	Low
2-ethylhexanoic acid, zirconium salt	-	2.96	Low
Ethanol	-0.35	-	Low

12.4 Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	
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.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment meth	ods
Product	
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 ΙΑΤΑ 14.1 UN number Not regulated. Not regulated. Not regulated. Not regulated. 14.2 UN proper _ _ shipping name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 No. No. No. No. **Environmental** hazards

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in user the event of an accident or spillage.

14.7 Transport in bulk : Not relevant/applicable due to nature of the product. according to IMO instruments

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

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
	Exposure Limits EH40	silica, respirable crystalline respirable fraction	Carc.	-

EU regulations

SECTION 15: Regula	atory information
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed
International regulations Chemical Weapon Conven Not listed.	tion List Schedules I, II & III Chemicals
Montreal Protocol Not listed.	
Stockholm Convention on Not listed.	Persistent Organic Pollutants
Rotterdam Convention on Not listed.	Prior Informed Consent (PIC)
UNECE Aarhus Protocol o Not listed.	n POPs and Heavy Metals
15.2 Chemical safety assessment	: This product contains substances for which Chemical Safety Assessments are still required.
SECTION 16: Other	information
Indicates information that	has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	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

	Date of revision : 12/10/2023 Date of previous issue 81-00 - All variants	: 12/09/2023	Version : 3 16/18 Label No : <mark>5</mark> 71039
H332	Harmful if inhaled.		
H331	Toxic if inhaled.		
H330	Fatal if inhaled.		
H319	Causes serious eye irritation.		
H318	Causes serious eye damage.		
H317	May cause an allergic skin reaction.		
H315	Causes skin irritation.		
H314	Causes severe skin burns and eye damage.		
H311	Toxic in contact with skin.		
H302	Harmful if swallowed.		
H301	Toxic if swallowed.		
H225	Highly flammable liquid and vapour.		

SECTION 16: Other information			
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.		
The second second second			

Full text of classifications

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
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. 2	FLAMMABLE LIQUIDS - Category 2
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
Date of issue/ Date of	: 12/10/2023
revision	
Date of previous issue	e : 12/09/2023
Version	: 3
	TEKNOL 4894.00 All variante

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.

Date of issue/Date of revision TEKNOL 4881-00 - All variants : 12/10/2023 Date of previous issue