SAFETY DATA SHEET



TEKNOL 1881 - All variants

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

1.1 Product identifier

: TEKNOL 1881 - All variants **Product name**

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

Product 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 : NHS: 111 Telephone number

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.

: P362 + P364 - Take off contaminated clothing and wash it before reuse. Response

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, regional,

national and international regulations.

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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 DTBMA and MBIT 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.

VPV

Other hazards which do not result in classification

: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Type
Manium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≤10	Carc. 2, H351 (inhalation)	[1] [*]
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]
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]
(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]
3-iodo-2-propynyl-butyl carbamate	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]
Cobalt bis(2-ethylhexanoate)	REACH #: 01-2119524678-29 EC: 205-250-6 CAS: 136-52-7	<0.1	Eye Irrit. 2, H319 Skin Sens. 1A, H317 Repr. 1B, H360F Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412	[1] [2]
Ammonia	REACH #: 01-2119488876-14	<0.1	Skin Corr. 1B, H314 Eye Dam. 1, H318	[1] [2]

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SECTION 3: Composition/information on ingredients EC: 215-647-6 **STOT SE 3, H335** CAS: 1336-21-6 Aquatic Acute 1, H400 Index: 007-001-01-2 (M=1)2-ethylhexanoic acid, zirconium REACH #: ≤0.1 Repr. 2, H361d [1] [2] 01-2119979088-21 EC: 245-018-1 CAS: 22464-99-9 Acute Tox. 4. H302 2-aminoethanol EC: 205-483-3 ≤0.1 [1] [2] CAS: 141-43-5 Acute Tox. 4, H312 Index: 603-030-00-8 Acute Tox. 4, H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 **STOT SE 3, H335** EC: 264-843-8 4,5-dichloro-2-octyl-2H-isothiazol-≤0.022 Acute Tox. 4, H302 [1] CAS: 64359-81-5 Acute Tox. 2, H330 3-one 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** Propylene glycol REACH #: ≤0.1 Not classified. [2] 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6 Dipropyleneglycolmethylether REACH #: ≤0.1 Not classified. [2] 01-2119450011-60 EC: 252-104-2 CAS: 34590-94-8 EC: 238-878-4 ≤0.1 **STOT RE 2, H373** Quartz (SiO2) [1] [2] CAS: 14808-60-7 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.

- [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 ≤ 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.

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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 from 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: Accidental release measures

6.1 Personal precautions, protective 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 sections

: See Section 1 for emergency contact information. 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

: Not available. Recommendations : Not available. **Industrial sector specific**

solutions

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

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/m³ 8 hours. STEL: 101.2 mg/m3 15 minutes.

Reaction mass of ethylbenzene and xylene EU OEL (Europe).

> TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³

Cobalt bis(2-ethylhexanoate) EH40/2005 WELs (United Kingdom (UK), 1/2020). [cobalt and

cobalt compounds as Co] Inhalation sensitiser.

TWA: 0.1 mg/m³, (as Co) 8 hours.

EH40/2005 WELs (United Kingdom (UK), 1/2020). [ammonia Ammonia

anhvdrous1

STEL: 25 mg/m3 15 minutes. Form: anhydrous STEL: 35 ppm 15 minutes. Form: anhydrous TWA: 25 ppm 8 hours. Form: anhydrous TWA: 18 mg/m³ 8 hours. Form: anhydrous

2-ethylhexanoic acid, zirconium salt EH40/2005 WELs (United Kingdom (UK), 1/2020). [zirconium

compounds as Zr]

STEL: 10 mg/m³, (as Zr) 15 minutes. TWA: 5 mg/m³, (as Zr) 8 hours.

2-aminoethanol EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed

through skin.

STEL: 7.6 mg/m³ 15 minutes. STEL: 3 ppm 15 minutes. TWA: 1 ppm 8 hours. TWA: 2.5 mg/m³ 8 hours.

EH40/2005 WELs (United Kingdom (UK), 1/2020). Propylene glycol

TWA: 10 mg/m³ 8 hours. Form: Particulate

TWA: 474 mg/m³ 8 hours. Form: total vapour and particulates TWA: 150 ppm 8 hours. Form: total vapour and particulates EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed

through skin.

TWA: 308 mg/m³ 8 hours. TWA: 50 ppm 8 hours.

EH40/2005 WELs (United Kingdom (UK), 1/2020). [silica, Quartz (SiO2)

respirable crystalline respirable fraction]

TWA: 0.1 mg/m³ 8 hours. Form: Respirable fraction

Biological exposure indices

Dipropyleneglycolmethylether

No exposure indices known.

Recommended monitoring procedures

: 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

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SECTION 8: Exposure controls/personal protection

Product/ingredient name	Туре	Exposure	Value	Population	Effects
2-(2-butoxyethoxy)ethanol	DNEL	Long term Oral	6.25 mg/	General	Systemic
, , , , , , , , , , , , , , , , , , , ,		3	kg bw/day	population	,
	DNEL	Long term	67.5 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Short term	101.2 mg/	Workers	Local
Describes were of other the service and	DNIEL	Inhalation	m ³	\\/ = w < = w=	Customaia
Reaction mass of ethylbenzene and xylene	DNEL	Long term Inhalation	221 mg/m ³	Workers	Systemic
Xylerie	DNEL	Short term	442 mg/m³	Workers	Systemic
	DIVLE	Inhalation	442 mg/m	WORKOIS	Cyclenno
	DNEL	Long term	221 mg/m ³	Workers	Local
		Inhalation	G		
	DNEL	Short term	221 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Long term Dermal	212 mg/kg	Workers	Systemic
	DNEL	Long term	65.3 mg/m ³		Systemic
	DAIEI	Inhalation	CF 0/3	population	Land
	DNEL	Long term Inhalation	65.3 mg/m ³		Local
	DNEL	Short term	260 mg/m ³	population General	Local
	DIVLL	Inhalation	200 mg/m	population	Local
	DNEL	Long term Dermal	125 mg/kg	General	Systemic
			3.1.9	population	*
	DNEL	Long term Oral	12.5 mg/kg		Systemic
				population	
(Z)-9-Octadecen-1-ol ethoxylated	DNEL	Long term Oral	25 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	87 mg/m³	General	Systemic
	DNIEL	Inhalation	20.4 3	population	Customaia
	DNEL	Long term Inhalation	294 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	1250 mg/	General	Systemic
	DIVLE	Long term Dermai	kg bw/day	population	Cyclenno
	DNEL	Long term Dermal	2080 mg/	Workers	Systemic
		3	kg bw/day		
3-iodo-2-propynyl-butyl carbamate	DNEL	Long term	0.023 mg/	Workers	Systemic
		Inhalation	m³		
	DNEL	Short term	0.07 mg/m ³	Workers	Systemic
	DNIEL	Inhalation	4 46 /3	\\/amlcama	
	DNEL	Short term Inhalation	1.16 mg/m ³	vvorkers	Local
	DNEL	Long term	1.16 mg/m³	Workers	Local
	DIVLE	Inhalation	i. io mg/m	Workers	Local
	DNEL	Long term Dermal	2 mg/kg	Workers	Systemic
			bw/day		
Cobalt bis(2-ethylhexanoate)	DNEL	Long term	37 μg/m³	General	Local
	D=:	Inhalation	475 "	population	
	DNEL	Long term Oral	175 μg/kg	General	Systemic
	DNEL	Long term	bw/day 235.1 μg/	population Workers	Local
	DINEL	Long term Inhalation	235.1 µg/ m³	MOIVEIS	LUCAI
2-ethylhexanoic acid, zirconium salt	DNEL	Long term	2.5 mg/m ³	General	Systemic
and an arrangement of the second of the seco		Inhalation	····· g ····	population	,
	DNEL	Long term Oral	2.5 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	3.25 mg/	General	Systemic
	 	Lama Armin	kg bw/day	population	Ota
	DNEL	Long term	5 mg/m³	Workers	Systemic
	DNEL	Inhalation Long term Dermal	6.49 mg/	Workers	Systemic
	DINEL	Long term Demial	kg bw/day	MOINGIS	Oyaleilile
2-aminoethanol	DNEL	Long term	0.18 mg/m ³	General	Systemic
		Inhalation		population	,
	DNEL	Long term	0.28 mg/m ³		Local
I	l	l			l

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SECTION 8: Exposure controls/personal protection

<u> </u>	1	I			
		Inhalation		population	
	DNEL	Long term	0.51 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Long term	1 mg/m³	Workers	Systemic
		Inhalation	J		,
	DNEL	Long term Oral	1.5 mg/kg	General	Systemic
		Long tom Oran	bw/day	population	Cycloniic
	DNEL	Long term Dermal	1.5 mg/kg	General	Systemic
	DIVLL	Long term Dermai	bw/day	population	Oysternic
	DNE	Lama tama Damaal	•		Cuatamia
	DNEL	Long term Dermal	3 mg/kg	Workers	Systemic
	·		bw/day		
Propylene glycol	DNEL	Long term	10 mg/m³	General	Local
		Inhalation		population	
	DNEL	Long term	10 mg/m³	Workers	Local
		Inhalation			
	DNEL	Long term	50 mg/m ³	General	Systemic
		Inhalation	· ·	population	,
	DNEL	Long term	168 mg/m ³	Workers	Systemic
		Inhalation	J		,
Dipropyleneglycolmethylether	DNEL	Long term Oral	36 mg/kg	General	Systemic
2.propylonogrycomicallyloanor		Long tom Oran	bw/day	population	Cycloniic
	DNEL	Long term	37.2 mg/m ³		Systemic
	DIVLE	Inhalation	07.2 mg/m	population	Cyclenno
	DNEL		121 ma/ka	General	Systemic
	DINEL	Long term Dermal	121 mg/kg		Systemic
	DAIE		bw/day	population	0
	DNEL	Long term Dermal	283 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	308 mg/m ³	Workers	Systemic
		Inhalation			

PNECs

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

8.2 Exposure controls

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne 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.

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

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SECTION 8: Exposure controls/personal 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

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):

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

Appearance

Physical state : Liquid. Colour Various **Odour** : Slight Not available. **Odour threshold**

Melting point/freezing point Initial boiling point and

boiling range

Not available.

°C °F

Ingredient name Method water 212 100

Flammability (solid, gas) Not available.

Upper/lower flammability or Lower: Not applicable. Upper: Not applicable. explosive limits

: Closed cup: >100°C (>212°F) Flash point

Auto-ignition temperature : Not available. **Decomposition temperature** : Not available.

pН 7.8 to 9 [Conc. (% w/w): 100%]

Not available. **Viscosity**

Solubility(ies)

Not available.

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

water

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SECTION 9: Physical and chemical properties

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 :

✓ 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.

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/m³	4 hours
carbamate	mists			
	LC50 Inhalation Dusts and	Rat	0.763 mg/l	4 hours
	mists			
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	400 mg/kg	-
Cobalt bis(2-ethylhexanoate)	LD50 Dermal	Rabbit	>5 g/kg	-
,	LD50 Oral	Rat	1.22 g/kg	-
Ammonia	LD50 Oral	Rat	350 mg/kg	-
2-ethylhexanoic acid,	LD50 Dermal	Rabbit	>5 g/kg	-
zirconium salt				
	LD50 Oral	Rat	>5 g/kg	-
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	-
Propylene glycol	LD50 Dermal	Rabbit	20800 mg/kg	-

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LD50 Oral Rat 20 g/kg -

Conclusion/Summary

Acute toxicity estimates

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

Route	ATE value
mhalation (dusts and mists)	339.67 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Manium dioxide	Skin - Mild irritant	Human	-	72 hours 300	-
0 (0 1 1 1 1 1 1 1 1 1	For Market initial	D.1.1.14		ug I	
2-(2-butoxyethoxy)ethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
	Eyes - Severe irritant	Rabbit	_	mg 20 mg	_
Reaction mass of	Eyes - Irritant	Rabbit	-	- · · · · · · ·	-
ethylbenzene and xylene					
	Respiratory - Irritant	Mammal -	-	-	-
		species unspecified			
	Skin - Irritant	Rabbit	_	_	_
(Z)-9-Octadecen-1-ol	Eyes - Moderate irritant	Rabbit	-	100 uL	-
ethoxylated					
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
2 inde 2 propugad buttel	Figs. Sovers irritant	Rabbit		mg	
3-iodo-2-propynyl-butyl carbamate	Eyes - Severe irritant	Rappit	-	-	-
Ammonia	Eyes - Severe irritant	Rabbit	-	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	-
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	-
		01.11.1		%	
	Skin - Moderate irritant	Child	-	96 hours 30 % C	-
	Skin - Moderate irritant	Human	_	72 hours 104	_
	Jan Moderate Intern	. Idilidii		mg I	
Dipropyleneglycolmethylether	Eyes - Mild irritant	Human	-	8 mg	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Chin Mild irritant	Dabbit		mg 500 mg	
	Skin - Mild irritant	Rabbit	-	500 mg	-

Conclusion/Summary

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

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
Reaction mass of ethylbenzene and xylene	skin	Mammal - species unspecified	Not sensitizing
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
	-	Experiment: In vitro Subject: Bacteria	Negative

Conclusion/Summary

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

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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
3-iodo-2-propynyl-butyl carbamate	Category 2	inhalation	-
	Category 1	-	larynx
	Category 2	-	-

Aspiration hazard

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

Information on likely routes

of exposure

: Not available.

Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.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, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact: Adverse symptoms may include the following:

irritation redness

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Ingestion : No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate

effects

: Not available.

Potential delayed effects

: Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

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/m³	13 weeks

Conclusion/Summary

Carcinogenicity

: Not available.

General

: Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

Mutagenicity
Reproductive toxicity

No known significant effects or critical hazards.No known significant effects or critical hazards.No known significant effects or critical hazards.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
irtanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i> pulex - Neonate	48 hours
	Acute LC50 >1000000 μg/l Marine water	Fish - Mummichog - Fundulus heteroclitus	96 hours
2-(2-butoxyethoxy)ethanol	Acute LC50 1300000 μg/l Fresh water	Fish - Bluegill - <i>Lepomis</i> macrochirus	96 hours
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 magna</i>	48 hours
	Acute LC50 0.067 mg/l Fresh water	Fish - Trout - Oncorhynchus mykiss	96 hours
	Acute NOEC 0.049 mg/l Fresh water	Fish - Trout - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.05 mg/l Fresh water	Daphnia - Daphnia - <i>Daphnia Magna</i>	21 days
Ammonia	Acute LC50 37 ppm Fresh water	Fish - Western mosquitofish - Gambusia affinis - 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 - Crangon crangon	48 hours

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		- Adult	
	Acute LC50 170 mg/l Fresh water	Fish - Goldfish - Carassius	96 hours
		auratus	
4,5-dichloro-2-octyl-2H-	Acute EC50 0.003 mg/l Fresh water	Algae - Green algae -	72 hours
isothiazol-3-one		Pseudokirchneriella subcapitata	
	Acute EC50 18 ppb Marine water	Algae - Diatom - Skeletonema	96 hours
		costatum	
	Acute EC50 0.001 mg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i>	48 hours
		magna	
	Acute LC50 22 μg/l Fresh water	Crustaceans - Scud -	48 hours
		Gammarus pulex	
	Acute LC50 2.7 ppb Fresh water	Fish - Rainbow trout,donaldson	96 hours
		trout - Oncorhynchus mykiss	
	Chronic NOEC 19.789 µg/l Marine	Algae - Diatom - <i>Nitzschia</i>	96 hours
	water	pungens	
	Chronic NOEC 0.56 ppb	Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i>	97 days
Propylene glycol	Acute EC50 19300 mg/l Fresh water	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 -	48 hours
		Ceriodaphnia dubia	
	Acute LC50 40613 mg/l Fresh water	Fish - Trout - Oncorhynchus	96 hours
		mykiss	

Conclusion/Summary

: Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Conclusion/Summary: This product has not been tested for biodegradation.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Reaction mass of ethylbenzene and xylene	-	-	Readily
3-iodo-2-propynyl-butyl	-	-	Not readily
carbamate Propylene glycol	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
	1	-	Low
Reaction mass of ethylbenzene and xylene	-	25.9	Low
3-iodo-2-propynyl-butyl carbamate	>1	-	Low
Cobalt bis(2-ethylhexanoate)	-	15600	High
2-ethylhexanoic acid,	-	2.96	Low
zirconium salt			
2-aminoethanol	-1.31	-	Low
Propylene glycol	-1.07	-	Low
Dipropyleneglycolmethylether	0.004	-	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.

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

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

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)

: 080112, 200128

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)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

user

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 the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments

: 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

None of the components are listed.

Substances of very high concern

None of the components are listed.

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SECTION 15: Regulatory information

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
obalt bis(2-ethylhexanoate)		cobalt and cobalt compounds as Co	Carc.	-
,	Exposure Limits EH40	silica, respirable crystalline respirable fraction	Carc.	-

EU regulations

Industrial emissions (integrated pollution

prevention and control) -

Air

Industrial emissions

: Not listed

(integrated pollution prevention and control) -

Water

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

: Not listed

Not listed.

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 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.

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SECTION 16: Other information

Abbreviations and acronyms

: 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	
Skin Sens. 1, H317	Calculation method	
Aquatic Chronic 3, H412	Calculation method	

Full text of abbreviated H statements

H226 F	Flammable liquid and vapour.
	ianimable liquid and vapour.
H302 F	Harmful if swallowed.
H304 N	May be fatal if swallowed and enters airways.
H312 F	Harmful in contact with skin.
H314 C	Causes severe skin burns and eye damage.
H315 C	Causes skin irritation.
H317 N	May cause an allergic skin reaction.
H318 C	Causes serious eye damage.
H319 C	Causes serious eye irritation.
H330 F	Fatal if inhaled.
H331 T	Toxic if inhaled.
H332 F	Harmful if inhaled.
H335 N	May cause respiratory irritation.
H351 S	Suspected of causing cancer.
H360F N	May damage fertility.
H361d S	Suspected of damaging the unborn child.
H372 C	Causes damage to organs through prolonged or repeated exposure.
H373 N	May cause damage to organs through prolonged or repeated exposure.
	/ery toxic to aquatic life.
	/ery toxic to aquatic life with long lasting effects.
H412 F	Harmful to aquatic life with long lasting effects.
EUH071 C	Corrosive to the respiratory tract.

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
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. 1B	REPRODUCTIVE TOXICITY - Category 1B
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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