SAFETY DATA SHEET



TEKNOTOP 2981-01 - WHITE

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

1.1 Product identifier

: TEKNOTOP 2981-01 - WHITE **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 responsible for this SDS

: Prod-safe@teknos.com

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

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.

Precautionary statements

: P280 - Wear protective gloves. **Prevention**

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.

P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.

Storage : Not applicable.

: P501 - Dispose of contents and container in accordance with all local, regional, **Disposal**

national and international regulations.

Supplemental label

elements

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. Contains biocidal products for in-can preservation: BIT and

Bronopol and MIT and OIT and DTBMA and C(M)IT/MIT (3:1) and MBIT.

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SECTION 2: Hazards identification

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

: Mixture 3.2 Mixtures

Product/ingredient name	Identifiers	%	Classification	Type
titanium 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]
Ethanediol	REACH #: 01-2119456816-28 EC: 203-473-3 CAS: 107-21-1 Index: 603-027-00-1	<1	Acute Tox. 4, H302 STOT RE 2, H373 (oral)	[1] [2]
Propylene glycol	REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6	≤0.3	Not classified.	[2]
2,4,7,9-tetramethyl-5-decyne- 4,7-diol	REACH #: 01-2119954390-39 EC: 204-809-1 CAS: 126-86-3	≤0.3	Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412	[1]
Ammonia	REACH #: 01-2119488876-14 EC: 215-647-6 CAS: 1336-21-6 Index: 007-001-01-2	<0.1	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 (M=1)	[1] [2]
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]
2-ethylhexanoic acid, zirconium salt	REACH #: 01-2119979088-21 EC: 245-018-1 CAS: 22464-99-9	≤0.1	Repr. 2, H361d	[1] [2]
2-Methylpentane-2,4-diol	REACH #: 01-2119539582-35 EC: 203-489-0 CAS: 107-41-5 Index: 603-053-00-3	≤0.1	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1] [2]
2-methyl-2H-isothiazol-3-one	EC: 220-239-6	<0.01	Acute Tox. 3, H301	[1]

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SECTION 3: Compositi	on/information on i	ngredients		
	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	
2-Octyl-2H-isothiazol-3-one	EC: 247-761-7 CAS: 26530-20-1 Index: 613-112-00-5	<0.0025	Acute Tox. 3, H301 Acute Tox. 3, H301 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]
iso-butanol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≤0.1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	[1] [2]
Dipropyleneglycolmethylether	REACH #: 01-2119450011-60 EC: 252-104-2 CAS: 34590-94-8	≤0.1	Not classified.	[2]
			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 ≤ 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.

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.

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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 aloves.

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

: No specific data. Ingestion

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

: None known.

media

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.

Hazardous combustion products

: Decomposition products may include the following materials: 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.

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.

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SECTION 6: Accidental release measures

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).

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. 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.

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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)

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

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ammonia

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/m³ 15 minutes. TWA: 123 mg/m³ 8 hours.

Ethanediol EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed

through skin.

TWA: 10 mg/m³ 8 hours. Form: Particulate TWA: 20 ppm 8 hours. Form: Vapour STEL: 40 ppm 15 minutes. Form: Vapour TWA: 52 mg/m³ 8 hours. Form: Vapour STEL: 104 mg/m³ 15 minutes. Form: Vapour

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

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). [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

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). [zirconium 2-ethylhexanoic acid. zirconium salt

compounds as Zr1

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

EH40/2005 WELs (United Kingdom (UK), 1/2020). 2-Methylpentane-2,4-diol

STEL: 123 mg/m3 15 minutes. STEL: 25 ppm 15 minutes. TWA: 123 mg/m³ 8 hours. TWA: 25 ppm 8 hours.

iso-butanol EH40/2005 WELs (United Kingdom (UK), 1/2020).

> STEL: 231 mg/m3 15 minutes. STEL: 75 ppm 15 minutes. TWA: 154 mg/m³ 8 hours. TWA: 50 ppm 8 hours.

EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed Dipropyleneglycolmethylether

through skin.

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

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.

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	Type	Exposure	Value	Population	Effects
2 -Butoxyethanol	DNEL	Long term Oral	6.3 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Oral	26.7 mg/	General	Systemic
	DAIEI	1 4	kg bw/day	population	0
	DNEL	Long term Inhalation	59 mg/m³	General population	Systemic
	DNEL	Long term	98 mg/m³	Workers	Systemic
		Inhalation	00 mg/m		, , , , , , , , , , , , , , , , , , , ,
	DNEL	Short term	147 mg/m³	General	Local
		Inhalation		population	
	DNEL	Short term	246 mg/m ³	Workers	Local
	DNEL	Inhalation Short term	426 mg/m³	General	Systemic
	DIVLL	Inhalation	420 mg/m	population	Oystoniio
	DNEL	Short term	1091 mg/	Workers	Systemic
		Inhalation	m³		
Ethanediol	DNEL	Long term	7 mg/m³	General	Local
	DNEL	Inhalation Long term	35 mg/m³	population Workers	Local
	DINLL	Inhalation	55 mg/m	VVOIKEIS	Local
	DNEL	Long term Dermal	53 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	106 mg/kg	Workers	Systemic
Propylene glycol	DNEL	Long term	bw/day 10 mg/m³	General	Local
r topylette grycol	DINLL	Inhalation	10 mg/m	population	Local
	DNEL	Long term	10 mg/m³	Workers	Local
		Inhalation			
	DNEL	Long term	50 mg/m³	General	Systemic
	DNEL	Inhalation Long term	168 mg/m³	population Workers	Systemic
	DIVLL	Inhalation	100 mg/m	VVOIRCIS	Oysternic
2,4,7,9-tetramethyl-5-decyne-4,7-diol	DNEL	Long term Oral	0.25 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	0.25 mg/	General	Systemic
	DNEL	Long term	kg bw/day 0.43 mg/m³	population General	Systemic
		Inhalation	01.10 mg/m	population	- yetee
	DNEL	Long term Dermal	0.5 mg/kg	Workers	Systemic
	DAIEI		bw/day	0 1	
	DNEL	Short term Oral	0.75 mg/ kg bw/day	General population	Systemic
	DNEL	Short term Dermal	0.75 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Short term	1.29 mg/m ³		Systemic
	DNEL	Inhalation Short term Dermal	1.5 mg/kg	population Workers	Systemic
	DINEL	Onor term Dermal	bw/day	A A OI VGI 2	Oystellille
	DNEL	Long term	1.76 mg/m ³	Workers	Systemic
		Inhalation	_		
	DNEL	Short term	5.28 mg/m ³	Workers	Systemic
Cobalt bis(2-ethylhexanoate)	DNEL	Inhalation Long term	37 μg/m³	General	Local
South Side Stripmonarioate)	DIVLL	Inhalation	ο, μ9/III	population	20001
	DNEL	Long term Oral	175 µg/kg	General	Systemic
	D	1	bw/day	population	1 1
	DNEL	Long term Inhalation	235.1 µg/ m³	Workers	Local
2-ethylhexanoic acid, zirconium salt	DNEL	Long term	m ³ 2.5 mg/m ³	General	Systemic
2 sarymonariolo dola, ziroomam sait	D. 1LL	Inhalation	o mg/m	population	Systemio
	DNEL	Long term Oral	2.5 mg/kg	General	Systemic
	ריבי	I amm to D	bw/day	population	C. rata ratio
	DNEL	Long term Dermal	3.25 mg/ kg bw/day	General population	Systemic
			Ng DW/day	population	

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SECTION 8: Exposure controls/personal protection DNEL Long term 5 mg/m³ Workers Systemic Inhalation **DNEL** Long term Dermal 6.49 ma/ Workers Systemic kg bw/day 1.5 mg/kg Systemic 2-Methylpentane-2,4-diol DNEL Long term Oral General population bw/day 7.8 mg/m³ DNEL Long term General Systemic population Inhalation **DNEL** Long term Dermal 15 mg/kg General Systemic population bw/day DNEL Long term 25 mg/m³ General Local Inhalation population **DNEL** Long term Dermal 42 mg/kg Workers Systemic bw/day **DNEL** 44.4 mg/m³ Long term Workers Systemic Inhalation DNEL Short term 49 mg/m³ Local General Inhalation population **DNEL** Long term 49 mg/m³ Workers Local Inhalation **DNEL** Short term 98 mg/m³ Workers Local Inhalation **DNEL** 2-methyl-2H-isothiazol-3-one Long term 0.021 mg/ General Local Inhalation m^3 population DNEL Long term 0.021 ma/ Workers Local Inhalation m³ DNEL Long term Oral 0.027 mg/ General Systemic population kg bw/day **DNEL** Short term 0.043 mg/ General Local population Inhalation m^3 **DNEL** Short term 0.043 mg/ Workers Local Inhalation m³ DNEL Short term Oral 0.053 mg/ General Systemic kg bw/day population iso-butanol DNEL Long term 55 mg/m³ General Local Inhalation population Long term 310 mg/m³ Workers **DNEL** Local Inhalation Dipropyleneglycolmethylether **DNEL** Long term Oral 36 mg/kg General Systemic population bw/day **DNEL** 37.2 mg/m³ General Long term Systemic Inhalation population General **DNEL** Long term Dermal 121 mg/kg Systemic bw/day population 283 mg/kg **DNEL** Long term Dermal Workers 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.

bw/day 308 mg/m³

Workers

Systemic

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.

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DNEL

Long term

Inhalation

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

: 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

Appearance

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

Melting point/freezing point : Not available.

Initial boiling point and

boiling range

Ingredient name	°C	°F	Method
√ ater	100	212	

Flammability (solid, gas)

: Not available.

Upper/lower flammability or explosive limits

: Lower: Not applicable. Upper: Not applicable.

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

Auto-ignition temperature Not available. **Decomposition temperature** : Not available. pН Not applicable. **Viscosity** Not available.

Solubility(ies)

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SECTION 9: Physical and chemical properties

Not available.

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

water

Vapour pressure

	Vapour Pressure at 20°C			Vap	our pressu	re at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
water	17.5	2.3				

Relative density : Not available. : 1.2 g/cm³ **Density** Vapour density : Not available. : Not available. **Explosive properties** : Not available. **Oxidising properties**

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.

: The product is stable. 10.2 Chemical stability

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
E thanediol	LD50 Oral	Rat	4700 mg/kg	-
Propylene glycol	LD50 Dermal	Rabbit	20800 mg/kg	-
	LD50 Oral	Rat	20 g/kg	-
Ammonia	LD50 Oral	Rat	350 mg/kg	-
Cobalt bis(2-ethylhexanoate)	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	1.22 g/kg	-
2-ethylhexanoic acid,	LD50 Dermal	Rabbit	>5 g/kg	-
zirconium salt				
	LD50 Oral	Rat	>5 g/kg	-
2-Methylpentane-2,4-diol	LD50 Oral	Rat	3700 mg/kg	-
2-methyl-2H-isothiazol-	LC50 Inhalation Dusts and	Rat	0.11 mg/l	4 hours
3-one	mists			
2-Octyl-2H-isothiazol-3-one	LD50 Dermal	Rabbit	690 mg/kg	-
-	LD50 Oral	Rat	550 mg/kg	-
iso-butanol	LC50 Inhalation Vapour	Rat	19200 mg/m ³	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	2460 mg/kg	-

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SECTION 11: Toxicological information

Conclusion/Summary

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

Acute toxicity estimates

Route	ATE value
Not available.	

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300	-
				ug I	
2-Butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
	Eyes - Severe irritant	Rabbit	_	mg 100 mg	_
	Skin - Mild irritant	Rabbit	_	500 mg	_
Ethanediol	Eyes - Mild irritant	Rabbit	_	1 hours 100	_
				mg	
	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Eyes - Moderate irritant	Rabbit	-	6 hours 1440	-
				mg	
	Skin - Mild irritant	Rabbit	-	555 mg	-
Propylene glycol	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Skin - Mild irritant	Human		mg 168 hours	_
	Skiii - Willa II Italit	Tiuman	_	500 mg	-
	Skin - Mild irritant	Woman	_	96 hours 30	_
				%	
	Skin - Moderate irritant	Child	-	96 hours 30	-
				% C	
	Skin - Moderate irritant	Human	-	72 hours 104	-
0.47044 # 15.1		5		mg I	
2,4,7,9-tetramethyl-5-decyne-	Eyes - Severe irritant	Rabbit	-	0.1 MI	-
4,7-diol	Skin - Mild irritant	Rabbit	_	0.5 g	
Ammonia	Eyes - Severe irritant	Rabbit	-	0.5 g 0.5 minutes	_
Ammonia	Lycs - Gevere initant	Rabbit		1 mg	
	Eyes - Severe irritant	Rabbit	_	250 ug	_
2-Methylpentane-2,4-diol	Skin - Mild irritant	Rabbit	_	465 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
2-Octyl-2H-isothiazol-3-one	Eyes - Severe irritant	Rabbit	-	100 mg	-
Dipropyleneglycolmethylether	Eyes - Mild irritant	Human	-	8 mg	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Ckin Mild irritant	Dobbit		mg 500 mg	
	Skin - Mild irritant	Rabbit	_	500 mg	-

Conclusion/Summary

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

Sensitisation

Conclusion/Summary : May cause an allergic skin reaction.

Mutagenicity

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

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

Teratogenicity

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

Specific target organ toxicity (single exposure)

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Product/ingredient name	Category	Route of exposure	Target organs
Ammonia	Category 3	-	Respiratory tract irritation
iso-butanol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Ethanediol	Category 2	oral	-

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.

: No known significant effects or critical hazards. Ingestion

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

: No specific data. Ingestion

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

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Not available.

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

to very low levels.

Carcinogenicity : No known significant effects or critical hazards. : No known significant effects or critical hazards. Mutagenicity : No known significant effects or critical hazards. **Reproductive toxicity**

Other information : Not available.

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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-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
Ethanediol	Acute LC50 6900000 μg/l Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 41000000 μg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i> magna - Neonate	48 hours
	Acute LC50 8050000 μg/l Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours
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 - Ceriodaphnia dubia	48 hours
	Acute LC50 40613 mg/l Fresh water	Fish - Trout - Oncorhynchus mykiss	96 hours
2,4,7,9-tetramethyl- 5-decyne-4,7-diol	EC50 91 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours
•	LC50 42 mg/l	Fish - Cyprinus carpio	96 hours
Ammonia	Acute LC50 37 ppm Fresh water	Fish - Western mosquitofish - Gambusia affinis - Adult	96 hours
2-Methylpentane-2,4-diol	Acute EC50 2800000 µg/l Fresh water	Crustaceans - Water flea - Ceriodaphnia reticulata - Larvae	48 hours
	Acute EC50 3200000 µg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i> magna - Larvae	48 hours
	Acute LC50 8000000 µg/l Marine water	Fish - Bleak - Alburnus alburnus	96 hours
2-methyl-2H-isothiazol-3-one	Acute EC50 0.18 ppm Fresh water	Daphnia - Water flea - <i>Daphnia</i> magna	48 hours
	Acute LC50 0.07 ppm Fresh water	Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i>	96 hours
2-Octyl-2H-isothiazol-3-one	Acute EC50 107 ppb Fresh water	Daphnia - Water flea - <i>Daphnia magna</i>	48 hours
	Acute LC50 47 ppb Fresh water	Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i>	96 hours
	Chronic NOEC 74 ppb Fresh water	Daphnia - Water flea - <i>Daphnia</i> magna	21 days
	Chronic NOEC 8.5 ppb	Fish - Fathead minnow - Pimephales promelas	35 days
iso-butanol	Acute LC50 600 mg/l Marine water	Crustaceans - Brine shrimp - Artemia salina	48 hours
	Acute LC50 1030000 μg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i> magna - Neonate	48 hours
	Acute LC50 1330000 μg/l Fresh water	Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i>	96 hours

Conclusion/Summary

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

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
iso-butanol	-	74 % - Readily - 28 days	-	-

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

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SECTION 12: Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Propylene glycol	-	-	Readily
iso-butanol	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-Butoxyethanol	0.81	-	Low
Ethanediol	-1.36	-	Low
Propylene glycol	-1.07	-	Low
Cobalt bis(2-ethylhexanoate)	-	15600	High
2-ethylhexanoic acid,	-	2.96	Low
zirconium salt			
2-Methylpentane-2,4-diol	0.58	-	Low
2-Octyl-2H-isothiazol-3-one	2.45	-	Low
iso-butanol	1	-	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.

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

European waste catalogue (EWC) The classification of the product may meet the criteria for a hazardous waste.

: 080112

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.

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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.

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.

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
Cobalt bis(2-ethylhexanoate)	UK Occupational Exposure Limits EH40 - WEL	cobalt and cobalt compounds as Co	Carc.	-

EU regulations

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SECTION 15: Regulatory information

Industrial emissions : Not listed (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.

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.

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

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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

Full text of abbreviated H statements

H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic 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.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

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SECTION 16: Other information

H351	Suspected of causing cancer.
H360F	May damage fertility.
H361d	Suspected of damaging the unborn child.
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.
1	

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	
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. 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	
Skin Sens. 1B SKIN SENSITISATION - Category 1B	
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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