SAFETY DATA SHEET



NORDICA EKO 3894-82 - All variants

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

1.1 Product identifier

Product name : NORDICA EKO 3894-82 - All variants

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
Telephone number : NHS: 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

<u>Classification according to UK CLP/GHS</u>

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

Prevention : P280 - Wear protective gloves.

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.

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

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

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] [*]
Propylene glycol	REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6	≤1	Not classified.	[2]
1-Methoxy 2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	<1	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
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]
Dipropyleneglycolmethylether	REACH #: 01-2119450011-60 EC: 252-104-2 CAS: 34590-94-8	≤0.3	Not classified.	[2]
3-iodo-2-propynyl-butyl carbamate	EC: 259-627-5 CAS: 55406-53-6 Index: 616-212-00-7	<0.1	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]
Ethanediol	REACH #: 01-2119456816-28 EC: 203-473-3 CAS: 107-21-1 Index: 603-027-00-1	≤0.1	Acute Tox. 4, H302 STOT RE 2, H373 (oral)	[1] [2]
1,2-benzisothiazol-3(2H)-one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	<0.1	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318	[1]

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SECTION 3: Composition/information on ingredients Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1)Ammonia REACH #: < 0.1 Skin Corr. 1B. H314 [1] [2] 01-2119488876-14 Eve Dam. 1. H318 EC: 215-647-6 **STOT SE 3, H335** CAS: 1336-21-6 Aquatic Acute 1, H400 Index: 007-001-01-2 (M=1)**Bronopol** EC: 200-143-0 ≤0.1 Acute Tox. 4, H302 [1] CAS: 52-51-7 Acute Tox. 4, H312 Index: 603-085-00-8 Skin Irrit. 2, H315 Eye Dam. 1, H318 **STOT SE 3, H335** Aquatic Acute 1, H400 (M=10)2-methyl-2H-isothiazol-3-one EC: 220-239-6 < 0.01 Acute Tox. 3, H301 [1] Acute Tox. 3, H311 CAS: 2682-20-4 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 < 0.0025 Acute Tox. 3. H301 [1] CAS: 26530-20-1 Acute Tox. 3, H311 Index: 613-112-00-5 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** See Section 16 for the full text of the H statements declared

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.

above.

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.

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.

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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).

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.

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.

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SECTION 7: Handling and storage

Industrial sector specific

: Not available.

solutions

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1-Methoxy 2-propanol

Occupational exposure limits

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.

STEL: 560 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 375 mg/m³ 8 hours. TWA: 100 ppm 8 hours.

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

through skin.

STEL: 50 ppm 15 minutes. TWA: 25 ppm 8 hours. STEL: 246 mg/m³ 15 minutes. TWA: 123 mg/m³ 8 hours.

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

through skin.

TWA: 308 mg/m³ 8 hours. TWA: 50 ppm 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

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

anhydrous]

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

Biological exposure indices

Product/ingredient name	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 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.

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DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
Propylene glycol	DNEL	Long term Inhalation	10 mg/m³	General population	Local
	DNEL	Long term Inhalation	10 mg/m³	Workers	Local
	DNEL	Long term Inhalation	50 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	168 mg/m³	Workers	Systemic
1-Methoxy 2-propanol	DNEL	Long term Oral	33 mg/kg bw/day	General population	Systemic
	DNEL	Long term	43.9 mg/m³		Systemic

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SECTION 8: Exposure controls/personal protection

		Inhalation		population	
	DNEL	Long term Dermal	78 mg/kg	General	Systemic
	DIVLE	Long torm Bornia	bw/day	population	Cyclonic
	D. 151				
	DNEL	Long term Dermal	183 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	369 mg/m ³	Workers	Systemic
	DIVLL		Job mg/m	WORKEIS	Oysternie
		Inhalation	,		
	DNEL	Short term	553.5 mg/	Workers	Local
		Inhalation	m³		
	DNEL	Short term	553.5 mg/	Workers	Systemic
	DIVLL			VVOIKEIS	Oysternic
		Inhalation	m³		
2-Butoxyethanol	DNEL	Long term Oral	6.3 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Oral	26.7 mg/	General	Systemic
	DIVLL	Short term Grai			Oysternic
			kg bw/day	population	
	DNEL	Long term	59 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL		00 ma/m3	Workers	Systemia
	DINEL	Long term	98 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Short term	147 mg/m ³	General	Local
		Inhalation		population	
	DAIEL		0.40/3		Land
	DNEL	Short term	246 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Short term	426 mg/m ³	General	Systemic
	- · · 	Inhalation		population	,
	DATE		4004		O and a marks
	DNEL	Short term	1091 mg/	Workers	Systemic
		Inhalation	m³		
Dipropyleneglycolmethylether	DNEL	Long term Oral	36 mg/kg	General	Systemic
2.6.063.00.03.900			bw/day	population	
	DATE	l. <i>.</i>	DW/day		
	DNEL	Long term	37.2 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	121 mg/kg	General	Systemic
	D. 122	Zong tonin Zonnai	bw/day	population	
		l <u>-</u> .			
	DNEL	Long term Dermal	283 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	308 mg/m ³	Workers	Systemic
	DIVLL	Inhalation	ooo mg/m	Workers	Cyclonic
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
	DIVLL	Inhalation	0.07 mg/m	Workers	Cyclonic
			4 40 4 2		
	DNEL	Short term	1.16 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Long term	1.16 mg/m ³	Workers	Local
	DIVLL		1.15 1119/111	** OI NOI O	20001
		Inhalation	<u> </u>		
	DNEL	Long term Dermal	2 mg/kg	Workers	Systemic
			bw/day		
Ethanediol	DNEL	Long term	7 mg/m³	General	Local
	DIVEL		,g,		
		Inhalation		population	
	DNEL	Long term	35 mg/m³	Workers	Local
		Inhalation			
	DNEL	Long term Dermal	53 mg/kg	General	Systemic
	DIVLL	Long tolli Dellilal			Cyclonino
			bw/day	population	
	DNEL	Long term Dermal	106 mg/kg	Workers	Systemic
		_	bw/day		-
1,2-benzisothiazol-3(2H)-one	DNEL	Long term Dermal	0.345 mg/	General	Systemic
1,2-0611213011110201-0(211)-0116	DINEL	Long term Demial			Cysternic
			kg bw/day	population	
	DNEL	Long term Dermal	0.966 mg/	Workers	Systemic
			kg bw/day		_
	DNEL	Long term	1.2 mg/m ³	General	Systemic
	DINCL		1.∠ mg/m²		Systemic
		Inhalation		population	
	DNEL	Long term	6.81 mg/m ³	Workers	Systemic
		Inhalation]		-
Bronopol	DNEL	Short term Dermal	4 µg/cm²	General	Local
ыопорог	DINCL	Onon term Demial	+ μg/cill		Lucai
				population	
	DNEL	Long term Dermal	4 μg/cm ²	General	Local
1	I .	I .	1	<u> </u>	ı

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SECTION 8: Exposure controls/personal protection population **DNEL** Short term Dermal 8 µg/cm² Workers Local 8 µg/cm² **DNEL** Long term Dermal Workers Local DNEL Long term Oral 0.18 mg/ General Systemic kg bw/day population 0.5 mg/kg DNEL Short term Oral Systemic General bw/dav population 0.6 mg/m³ DNEL Short term General Local Inhalation population **DNEL** Long term 0.6 mg/m³ General Systemic Inhalation population General DNEL Long term Dermal 0.7 mg/kg Systemic bw/day population Short term DNEL 1.8 mg/m³ General Systemic Inhalation population DNEL Long term Dermal 2 mg/kg Workers Systemic bw/day DNEL Short term Dermal 2.1 mg/kg General Systemic bw/day population DNEL Short term Workers 2.5 mg/m³ Local Inhalation **DNEL** Long term 2.5 mg/m³ Workers Local Inhalation DNEL 3.5 mg/m³ Workers Long term Systemic Inhalation DNEL Short term Dermal Workers 6 mg/kg Systemic bw/day Short term DNEL 10.5 mg/m³ Workers Systemic Inhalation 2-methyl-2H-isothiazol-3-one DNEL Long term 0.021 mg/ General Local Inhalation m³ population DNEL Long term $0.021 \, \text{mg/}$ Workers Local Inhalation m³ DNEL Long term Oral 0.027 mg/ General Systemic kg bw/day population DNEL Short term 0.043 mg/ General Local Inhalation population m^3 DNEL Short term 0.043 mg/ Workers Local Inhalation m^3

DNEL

Short term Oral

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

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

0.053 mg/

kg bw/day

General

population

Systemic

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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**

Initial boiling point and

Melting point/freezing point

boiling range

water

Not available.

Ingredient name °C Method 100 212 2,2,4-trimethylpentane-1,3-diol isobutyrate 255 to 260 491 to 500

Flammability (solid, gas) : Not available.

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

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

Auto-ignition temperature

Ingredient name	°C	°F	Method
2,2,4-trimethylpentane-1,3-diol isobutyrate	393	739.4	

Decomposition temperature : Not available.

: 8.4 to 9.1 [Conc. (% w/w): 100%] pН

Viscosity Not available.

Solubility(ies)

Not available.

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SECTION 9: Physical and chemical properties

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

water

Vapour pressure ŧ

	Vapour Pressure at 20°C			Var	our pressu	re at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
water	17.5	2.3				
2,2,4-trimethylpentane-1,3-diol isobutyrate	0.0098	0.0013	EU A.4			

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

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
Propylene glycol	LD50 Dermal	Rabbit	20800 mg/kg	-
	LD50 Oral	Rat	20 g/kg	-
1-Methoxy 2-propanol	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	6600 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	-
Ethanediol	LD50 Oral	Rat	4700 mg/kg	-
1,2-benzisothiazol-3(2H)-	LD50 Oral	Rat	1020 mg/kg	-
one				
Ammonia	LD50 Oral	Rat	350 mg/kg	-
Bronopol	LC50 Inhalation Dusts and	Rat	>0.588 mg/l	4 hours
	mists			
	LD50 Dermal	Rat	4750 mg/kg	-
	LD50 Oral	Rat	307 mg/kg	-

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SECTION 11: Toxicological information

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	-

Conclusion/Summary Acute toxicity estimates

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

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	
Propylene glycol	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Skin - Mild irritant	Human		mg 168 hours	
	Skin - Mild imtant	numan	-	500 mg	-
	Skin - Mild irritant	Woman		96 hours 30	_
	OKIT - WIIIG ITTEATE	VVOITIAIT	_	%	_
	Skin - Moderate irritant	Child	_	96 hours 30	_
				% C	
	Skin - Moderate irritant	Human	-	72 hours 104	-
				mg I	
1-Methoxy 2-propanol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
O Destantistical	Skin - Mild irritant	Rabbit	-	500 mg	-
2-Butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
	Eyes - Severe irritant	Rabbit	_	mg 100 mg	_
	Skin - Mild irritant	Rabbit	_	500 mg	_
Dipropyleneglycolmethylether	Eyes - Mild irritant	Human	_	8 mg	_
2.propylonoglycomicallyloulor	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Mild irritant	Rabbit	-	500 mg	-
3-iodo-2-propynyl-butyl	Eyes - Severe irritant	Rabbit	-	-	-
carbamate					
Ethanediol	Eyes - Mild irritant	Rabbit	-	1 hours 100	-
	Figs. Mild imitant	Dabbit		mg	
	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Moderate irritant	Rabbit	_	6 hours 1440	_
	Lyos Moderate initiant	rabbit		mg	
	Skin - Mild irritant	Rabbit	-	555 mg	-
1,2-benzisothiazol-3(2H)-one	Skin - Mild irritant	Human	-	48 hours 5 %	-
Ammonia	Eyes - Severe irritant	Rabbit	-	0.5 minutes	-
				1 mg	
	Eyes - Severe irritant	Rabbit	-	250 ug	-
Bronopol	Skin - Mild irritant	Rabbit	-	24 hours 500	-
	Claim Madayata imitant	Lluma a :-		mg	
	Skin - Moderate irritant Skin - Moderate irritant	Human Rabbit	-	10 mg	-
2-Octyl-2H-isothiazol-3-one	Eyes - Severe irritant	Rabbit	-	80 mg 100 mg	-
2-Octy1-21 1-150th11a201-3-011e	Lyes - Severe Illiant	เงสมมเ	-	100 Hig	-

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.

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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			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	1

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
1-Methoxy 2-propanol Ammonia	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
Bronopol	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 1	-	larynx
Ethanediol	Category 2	oral	-

Aspiration hazard

Not available.

Information on likely routes : Not available.

of exposure

Potential acute health effects

Eye contact : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards.

Skin contact : May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

: No specific data. **Eye contact** Inhalation : No specific data.

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Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion: No specific data.

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

Short term exposure

Potential immediate

otentiai iiii

: 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.
 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

Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Water flea -	48 hours
		Ceriodaphnia dubia - Neonate	
	Acute LC50 6.5 mg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i>	48 hours
		pulex - Neonate	
	Acute LC50 >1000000 µg/l Marine	Fish - Mummichog - Fundulus	96 hours
	water	heteroclitus	
Propylene glycol	Acute EC50 19300 mg/l Fresh water	Algae - Algae	96 hours
	Acute EC50 43500 mg/l Fresh water	Daphnia - Daphnia - Daphnia	48 hours
		magna	
	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
O But we the soul	A	mykiss	40.1
2-Butoxyethanol	Acute EC50 >1000 mg/l Fresh water	Daphnia - Water flea - Daphnia	48 hours
	Acute I CEO 200000 um/l Marine vueter	magna	40 haves
	Acute LC50 800000 μg/l Marine water	Crustaceans - Common shrimp,	48 hours
	Aguta I CEO 12E0000 ug/l Marina water	sand shrimp - <i>Crangon crangon</i> Fish - Inland silverside -	96 hours
	Acute LC50 1250000 μg/l Marine water	Menidia beryllina	96 Hours
3-iodo-2-propynyl-butyl	Acute EC50 0.022 mg/l Fresh water	Algae - Algae - Scenedemus	72 hours
carbamate	Acute EC30 0.022 mg/l Flesh water	subspicatus	72 Hours
Carbaniate	Acute EC50 0.16 mg/l Fresh water	Daphnia - Daphnia	48 hours
	Acute 2000 0. 10 mg/r r resh water	magna	40 110013
	Acute LC50 0.067 mg/l Fresh water	Fish - Trout - Oncorhynchus	96 hours
	Addie 2000 0.007 mg/11 room water	mykiss	oo noars
	Acute NOEC 0.049 mg/l Fresh water	Fish - Trout - Oncorhynchus	96 hours
	, todae 11020 0.0 10 mg/m 100m water	mykiss	001.0010
	Chronic NOEC 0.05 mg/l Fresh water	Daphnia - Daphnia - <i>Daphnia</i>	21 days
		Magna	- : ==,
Ethanediol	Acute LC50 6900000 µg/l Fresh water	Crustaceans - Water flea -	48 hours

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		Ceriodaphnia dubia - Neonate	
	Acute LC50 41000000 µg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i>	48 hours
		magna - Neonate	
	Acute LC50 8050000 µg/l Fresh water	Fish - Fathead minnow -	96 hours
		Pimephales promelas	
1,2-benzisothiazol-3(2H)-one	Acute EC50 0.36 mg/l Marine water	Algae - Algae - Skeletonema	72 hours
		Costatum	
	Acute EC50 3.7 mg/l	Daphnia - Daphnia - Daphnia	48 hours
		Magna	
	Acute LC50 1.9 mg/l Fresh water	Fish - Trout - Onorhynchus	96 hours
	_	Mykiss	
	Acute NOEC 0.15 mg/l Marine water	Algae - Algae - Skeletonema	72 hours
	_	Costatum	
Ammonia	Acute LC50 37 ppm Fresh water	Fish - Western mosquitofish -	96 hours
		Gambusia affinis - Adult	
Bronopol	Acute EC50 0.4 mg/l	Algae	72 hours
·	Acute EC50 0.02 ppm Fresh water	Algae - Green algae -	96 hours
		Scenedesmus subspicatus	
	Acute EC50 1.4 mg/l	Daphnia	48 hours
	Acute LC50 41.2 mg/l	Fish	96 hours
	Acute LC50 11.17 ppm Fresh water	Fish - Bluegill - Lepomis	96 hours
		macrochirus	
	Chronic NOEC 1.94 ppm	Fish - Rainbow trout,donaldson	49 days
		trout - Oncorhynchus mykiss	-
2-methyl-2H-isothiazol-3-one	Acute EC50 0.18 ppm Fresh water	Daphnia - Water flea - Daphnia	48 hours
		magna	
	Acute LC50 0.07 ppm Fresh water	Fish - Rainbow trout,donaldson	96 hours
		trout - Oncorhynchus mykiss	
2-Octyl-2H-isothiazol-3-one	Acute EC50 107 ppb Fresh water	Daphnia - Water flea - Daphnia	48 hours
	••	magna .	
	Acute LC50 47 ppb Fresh water	Fish - Rainbow trout,donaldson	96 hours
		trout - Oncorhynchus mykiss	
	Chronic NOEC 74 ppb Fresh water	Daphnia - Water flea - <i>Daphnia</i>	21 days
	· · ·	magna	
	Chronic NOEC 8.5 ppb	Fish - Fathead minnow -	35 days
		Pimephales promelas	
		' '	

Conclusion/Summary

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

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
1,2-benzisothiazol-3(2H)-one	EU	24 % - 28 days	-	-

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Propylene glycol 3-iodo-2-propynyl-butyl	-		Readily Not readily
carbamate 1,2-benzisothiazol-3(2H)-one Bronopol	-		Inherent Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Propylene glycol	-1.07	-	Low
1-Methoxy 2-propanol	<1	-	Low
2-Butoxyethanol	0.81	-	Low
Dipropyleneglycolmethylether	0.004	-	Low
3-iodo-2-propynyl-butyl carbamate	>1	-	Low
Ethanediol	-1.36	-	Low
1,2-benzisothiazol-3(2H)-one	-	3.2	Low
Bronopol	0.18	-	Low

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2-Octyl-2H-isothiazol-3-one 2.45 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

The classification of the product may meet the criteria for a hazardous waste.

European waste catalogue (EWC) : 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.

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.

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SECTION 14: Transport information

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 <u>UK (GB)/REACH</u>

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.

EU regulations

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.

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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

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.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
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.
EUH071	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
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
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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SECTION 16: Other information

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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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