Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 - United Kingdom: Northern Ireland

# **SAFETY DATA SHEET**



**TEKNOTOP 2981-02 - COLOURLESS** 

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

1.1 Pro	oduct id	entifier
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Product name : TEKNOTOP 2981-02 - COLOURLESS

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

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

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091. e-mail address of person : Prod-safe@teknos.com

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

### **National contact**

Teknos Ireland Limited, 52 Ballymoughan Road, Magherafelt, BT45 6HN, UK. Tel. +44 (0) 2879 301 472.

## **1.4 Emergency telephone number**

National advisory body/Poison Centre

Telephone number : NHS: 111

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Sens. 1, H317

The product is classified as hazardous according to Regulation (EC) 1272/2008 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 Hazard statements <u>Precautionary statements</u>	: Warning : H317 - May cause an allergic skin reaction.
Prevention	: P280 - Wear protective gloves. P261 - Avoid breathing vapour.
Response	<ul> <li>P362 + P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.</li> </ul>
Storage	: Not applicable.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	: Contains: EO bis(benztriazolyl)phenylpropionat; 1,2-benzisothiazol-3(2H)-one; 2-methyl-2H-isothiazol-3-one and 2-Octyl-2H-isothiazol-3-one

## **SECTION 2: Hazards identification**

Supplemental label elements	: Contains biocidal products for in-can preservation: BIT and Bronopol and MIT and OIT and C(M)IT/MIT (3:1).		
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:		
2.3 Other hazards			
Product meets the criteria for PBT or vPvB according to Regulation (EC) No.	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.		

1907/2006, Annex XIIIOther hazards which do<br/>not result in classification: None known.

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

3.2 Mixtures Product/ingredient name	: Mixture	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
₽́O bis(benztriazolyl) phenylpropionat	REACH #: 01-0000015075-76 EC: 400-830-7 CAS: 104810-48-2 Index: 607-176-00-3	<1	Skin Sens. 1A, H317 Aquatic Chronic 2, H411	-	[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. 3, H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319	ATE [Oral] = 1200 mg/kg ATE [Inhalation (vapours)] = 3 mg/l	[1] [2]
Dipropyleneglycolmethylether	REACH #: 01-2119450011-60 EC: 252-104-2 CAS: 34590-94-8	≤0.3	Not classified.	-	[2]
1,2-benzisothiazol-3(2H)- one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	<0.05	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400	ATE [Oral] = 1020 mg/kg Skin Sens. 1, H317: C ≥ 0.05% M [Acute] = 1	[1]
Bronopol	EC: 200-143-0 CAS: 52-51-7 Index: 603-085-00-8	≤0.1	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400	ATE [Oral] = 307 mg/kg ATE [Dermal] = 1100 mg/kg M [Acute] = 10	[1]
2-methyl-2H-isothiazol- 3-one	EC: 220-239-6 CAS: 2682-20-4	<0.01	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300  mg/kg ATE [Inhalation (dusts and mists)] = 0.11 mg/l Skin Sens. 1, H317: C $\geq 0.0015\%$ M [Acute] = 10	[1]
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SECTION 3: Compo	sition/informat	ion on in	gredients		
				M [Chronic] = 1	
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, H311 Acute Tox. 2, H330 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071	ATE [Oral] = 125 mg/kg ATE [Dermal] = 311  mg/kg ATE [Inhalation (dusts and mists)] = 0.27 mg/l Skin Sens. 1, H317: C $\geq$ 0.0015% M [Acute] = 100 M [Chronic] = 100	[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 See Section 16 for the full text of the H statements declared above.	STOT SE 3, H335: C ≥ 5% M [Acute] = 1	[1] [2]

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

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

## **SECTION 4: First aid measures**

4.1 Description of first aid r	easures
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.
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.

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## SECTION 4: First aid measures

4.2 Most important symp Over-exposure signs/sy	otoms and effects, both acute and delayed
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 imm	nediate medical attention and special treatment needed
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.

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 f	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	:	No specific data.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## **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

## **SECTION 6: Accidental release measures**

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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
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.
Industrial sector specific	: Not available.
solutions	

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

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

**Occupational exposure limits** 

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

Product/ingredient name	Exposure limit values		
2-Butoxyethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed		
	through skin.		
	STEL: 50 ppm 15 minutes.		
	TWA: 25 ppm 8 hours.		
	STEL: 246 mg/m <sup>3</sup> 15 minutes.		
	TWA: 123 mg/m <sup>3</sup> 8 hours.		
Dipropyleneglycolmethylether	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed		
	through skin.		
	TWA: 308 mg/m <sup>3</sup> 8 hours.		
	TWA: 50 ppm 8 hours.		
Ammonia	EH40/2005 WELs (United Kingdom (UK), 1/2020). [ammonia		
	anhydrous]		
	STEL: 25 mg/m <sup>3</sup> 15 minutes. Form: anhydrous		
	STEL: 35 ppm 15 minutes. Form: anhydrous		
	TWA: 25 ppm 8 hours. Form: anhydrous		
	TWA: 18 mg/m <sup>3</sup> 8 hours. Form: anhydrous		

#### **Biological exposure indices**

Product/ingredient name	Exposure indices		
2-Butoxyethanol	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Sampling time: post shift.		
procedures European Stand assessment of values and mea atmospheres - 0	In the made to monitoring standards, such as the following: In the made to monitoring standards, such as the following: In the sexposure by inhalation to chemical agents for comparison with limit In the sexposure by inhalation to chemical agents for comparison with limit In the sexposure by inhalation to chemical agents for comparison with limit In the sexposure by inhalation to chemical agents for the sexposure by inhalation to chemical agents for the sexposure by inhalation and use of procedures for the assessment In the sexposure by th		

(Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	n 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
			kg bw/day	population	,
	DNEL	Long term	59 mg/m <sup>3</sup>	General	Systemic
		Inhalation	Ũ	population	,
	DNEL	Long term	98 mg/m³	Workers	Systemic
		Inhalation	U U		
	DNEL	Short term	147 mg/m <sup>3</sup>	General	Local
		Inhalation	Ũ	population	
	DNEL	Short term	246 mg/m <sup>3</sup>	Workers	Local
		Inhalation	, C		
	DNEL	Short term	426 mg/m <sup>3</sup>	General	Systemic
		Inhalation	Ũ	population	,
	DNEL	Short term	1091 mg/	Workers	Systemic
		Inhalation	m³		-
1,2-benzisothiazol-3(2H)-one	DNEL	Long term Dermal	0.345 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	0.966 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term	1.2 mg/m <sup>3</sup>	General	Systemic
		Inhalation	_	population	-
	DNEL	Long term	6.81 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	_		-
Bronopol	DNEL	Short term Dermal	4 µg/cm²	General	Local
				population	
	DNEL	Long term Dermal	4 µg/cm²	General	Local
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•	-	-		population	
	DNEL	Short term Dermal	8 µg/cm²	Workers	Local
	DNEL	Long term Dermal	8 µg/cm²	Workers	Local
	DNEL	Long term Oral	0.18 mg/	General	Systemic
	DINEL	Long term oral	kg bw/day	population	Oysterine
	DNEL	Short term Oral	0.5 mg/kg	General	Systemic
	DITLE		bw/day	population	Cyclonne
	DNEL	Short term	0.6 mg/m <sup>3</sup>	General	Local
	DITL	Inhalation	0.0 mg/m	population	2000
	DNEL	Long term	0.6 mg/m <sup>3</sup>	General	Systemic
	DITL	Inhalation	0.0 mg/m	population	eyetenne
	DNEL	Long term Dermal	0.7 mg/kg	General	Systemic
	<b>_</b> _		bw/day	population	,
	DNEL	Short term	1.8 mg/m <sup>3</sup>	General	Systemic
		Inhalation	Ű	population	,
	DNEL	Long term Dermal	2 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	2.1 mg/kg	General	Systemic
			bw/day	population	5
	DNEL	Short term	2.5 mg/m <sup>3</sup>	Workers	Local
		Inhalation	Ű		
	DNEL	Long term	2.5 mg/m <sup>3</sup>	Workers	Local
		Inhalation	-		
	DNEL	Long term Inhalation	3.5 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Dermal	6 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	10.5 mg/m <sup>3</sup>	Workers	Systemic
2-methyl-2H-isothiazol-3-one	DNEL	Long term	0.021 mg/	General	Local
		Inhalation	m³	population	
	DNEL	Long term	0.021 mg/	Workers	Local
		Inhalation	m³		
	DNEL	Long term Oral	0.027 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Short term	0.043 mg/	General	Local
		Inhalation	m³	population	
	DNEL	Short term	0.043 mg/	Workers	Local
		Inhalation	m³		
	DNEL	Short term Oral	0.053 mg/	General	Systemic
			kg bw/day	population	

### **PNECs**

No PNECs available

### 8.2 Exposure controls

Appropriate engineering controls	Good general ventilation should be sufficient to control worker exposure to airbo contaminants.	orne
Individual protection measu		
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 per Appropriate techniques should be used to remove potentially contaminated clot 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.	hing.
Eye/face protection	Safety eyewear complying with an approved standard should be used when a ri assessment indicates this is necessary to avoid exposure to liquid splashes, mi gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses side-shields.	sts,
Skin protection		

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#### sure controls/personal protection **SECTION 8**

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 indicate 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

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

Ingredient name		°C	°F	Method
water		100	212	
Flammability	: Not ava	ilable.		
Lower and upper explosion limit		Not applicable. Not applicable.		

Flash point	: Closed of	cup: >100°C (>212°F)			
Auto-ignition temperature	: Not avai	lable.			
Decomposition temperature	: Not avai	lable.			
рН	: 8.3 to 8.	7 [Conc. (% w/w): 100%]	]		
Viscosity	: Not avai	lable.			
Solubility(ies)	:				
Not available.					
Solubility in water	: Not avai	lable.			
Partition coefficient: n-octanol/ water	: Not appl	icable.			
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## **SECTION 9: Physical and chemical properties**

	Va	apour Press	sure at 20°C	Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
water	17.5	2.3				
Relative density	: Not	available.				
Density	: 1 g/	: 1 g/cm <sup>3</sup>				
Vapour density	: Not	: Not available.				
Explosive properties	: Not	: Not available.				
Oxidising properties	: Not available.					
Particle characteristics						
Median particle size	: Not	applicable.				

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

## **SECTION 11: Toxicological information**

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
√,2-benzisothiazol-3(2H)- one	LD50 Oral	Rat	1020 mg/kg	-
Bronopol	LC50 Inhalation Dusts and mists	Rat	>0.588 mg/l	4 hours
	LD50 Dermal	Rat	4750 mg/kg	-
	LD50 Oral	Rat	307 mg/kg	-
2-methyl-2H-isothiazol- 3-one	LC50 Inhalation Dusts and mists	Rat	0.11 mg/l	4 hours
2-Octyl-2H-isothiazol-3-one	LD50 Dermal	Rabbit	690 mg/kg	-
•	LD50 Oral	Rat	550 mg/kg	-

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

## Acute toxicity estimates

Route	ATE value
halation (vapours)	323.97 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-Butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
1,2-benzisothiazol-3(2H)-one		Human	-	48 hours 5 %	-
Bronopol	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Moderate irritant	Human	-	10 mg	-
	Skin - Moderate irritant	Rabbit	-	80 mg	-
2-Octyl-2H-isothiazol-3-one	Eyes - Severe irritant	Rabbit	-	100 mg	-
Conclusion/Summary	: Based on available data, the	classification cr	riteria are	e not met.	
<u>Sensitisation</u>					
Conclusion/Summary	: May cause an allergic skin rea	action.			
Mutagenicity					
Conclusion/Summary	: Based on available data, the	classification cr	riteria are	not met.	
Carcinogenicity					
Conclusion/Summary	: Based on available data, the	classification cr	riteria are	e not met.	
Reproductive toxicity					
Conclusion/Summary	: Based on available data, the	classification cr	riteria are	not met.	
<u>Teratogenicity</u>	,				
Conclusion/Summary	: Based on available data, the	classification or	riteria are	not met	
Sonoiasion/Summary				not met.	

## Specific target organ toxicity (single exposure)

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Product/ir	igredient name	Category	Route of exposure	Target organs
Bronopol		Category 3	-	Respiratory tract irritation
Specific target organ toxi	city (repeated exposure	1		
Not available.				
Aspiration hazard				
Not available.				
Information on likely route of exposure	s : Not available.			
Potential acute health effect	<u>ots</u>			
Eye contact	: No known significa	nt effects or critical hazard	ds.	
Inhalation	: No known significa	nt effects or critical hazard	ds.	
Skin contact	: May cause an aller	gic skin reaction.		
Ingestion	: No known significat	nt effects or critical hazard	ds.	
Symptoms related to the p	hysical, chemical and to	xicological characterist	ics	
Eye contact	: No specific data.			
Inhalation	: No specific data.			
Skin contact	: Adverse symptoms irritation redness	may include the following	j:	
Ingestion	: No specific data.			
Delayed and immediate eff	ects as well as chronic	effects from short and lo	ong-term exposi	ure
Short term exposure				
Potential immediate effects	: Not available.			
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## **SECTION 11: Toxicological information**

	-	
Potential delayed effects	Not available.	
<u>Long term exposure</u>		
Potential immediate effects	Not available.	
Potential delayed effects	Not available.	
Potential chronic health eff	<u>2</u>	
Not available.		
<b>Conclusion/Summary</b>	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.	

#### 11.2 Information on other hazards

**11.2.1 Endocrine disrupting properties** 

Not available.

#### **11.2.2 Other information**

Not available.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
2-Butoxyethanol	Acute EC50 >1000 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 800000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 1250000 µg/l Marine water	Fish - Menidia beryllina	96 hours
1,2-benzisothiazol-3(2H)-one		Algae - Skeletonema Costatum	72 hours
	Acute EC50 3.7 mg/l	Daphnia - Daphnia Magna	48 hours
	Acute LC50 1.9 mg/l Fresh water	Fish - Onorhynchus Mykiss	96 hours
	Acute NOEC 0.15 mg/l Marine water	Algae - Skeletonema Costatum	72 hours
Bronopol	Acute EC50 0.4 mg/l	Algae	72 hours
•	Acute EC50 0.02 ppm Fresh water	Algae - Scenedesmus	96 hours
		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 - Lepomis macrochirus	96 hours
	Chronic NOEC 1.94 ppm	Fish - Oncorhynchus mykiss	49 days
2-methyl-2H-isothiazol-3-one	Acute EC50 0.18 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.07 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
2-Octyl-2H-isothiazol-3-one	Acute EC50 107 ppb Fresh water	Daphnia - Daphnia magna	48 hours
-	Acute LC50 47 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 74 ppb Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 8.5 ppb	Fish - Pimephales promelas	35 days

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

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
7,2-benzisothiazol-3(2H)-one	EU	24 % - 28 days		-	-
<b>Conclusion/Summary</b> : This product has not been tested for biodegradation.					
Product/ingredient name	Aquatic half-life	Photolysis	\$	Biodegradability	
	-		-		Inherent Readily

#### 12.3 Bioaccumulative potential

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SECTION 12: Ecological information					
Product/ingredient name	LogPow	BCF	Potential		
2-Butoxyethanol	0.81	-	Low		
1,2-benzisothiazol-3(2H)-one	-	3.2	Low		
Bronopol	0.18	-	Low		
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 Endocrine disrupting properties

Not available.

#### 12.7 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. : The classification of the product may meet the criteria for a hazardous waste. **Hazardous waste** : 080112 **European waste** catalogue (EWC) **Packaging** : The generation of waste should be avoided or minimised wherever possible. Waste Methods of disposal 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 or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
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SECTION 14: Transport information					
14.4 Packing group	-	-	-	-	
14.5 Environmental hazards	No.	No.	No.	No.	

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

14.7 Maritime transport in	11	١
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 EU Regulation (EC) No. 1907/2006 (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.

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

Product/ingredient name	%	Designation [Usage]			
<b>F</b> EKNOTOP 2981-02	≥90	3			
Labelling :		-			
ther EU regulations					
Industrial emissions : Not list (integrated pollution prevention and control) - Air	ed				
Industrial emissions : Not list (integrated pollution prevention and control) - Water	ed				
Explosive precursors : Not ap	plicable.				
Ozone depleting substances (1005/2	<u>009/EU)</u>				
Not listed.					
Prior Informed Consent (PIC) (649/20 Not listed.	<u>12/EU)</u>				
Persistent Organic Pollutants Not listed.					
<u>Seveso Directive</u>					
This product is not controlled under the	Seveso Directiv	e.			
ternational regulations					
hemical Weapon Convention List Sc	hedules I, II & I	<u>II Chemicals</u>			
Not listed.					
Iontreal Protocol					
Not listed.					
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## **SECTION 15: Regulatory information**

## 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	: Not applicable.
assessment	

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

<ul> <li>ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration PRN = REACH Registration Number</li> </ul>
RRN = REACH Registration Number
SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative

## Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification	
Skin Sens. 1, H317	Calculation method	

## Full text of abbreviated H statements

<b>H</b> 301	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.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

### Full text of classifications [CLP/GHS]

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 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2			
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1			
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - 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			
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SECTION 16: Other information			
	SKIN SENSITISATION - Category 1A 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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