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



HYDRO PROTECT 2181-00 - All variants

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

1.1	Product	identifier	
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Product name : HYDRO PROTECT 2181-00 - All variants

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

1.3 Details of the supplier of the safety data sheet

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

National contact

Teknos 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 Aquatic Chronic 3, H412

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	: Warning
Hazard statements	 H317 - May cause an allergic skin reaction. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: P280 - Wear protective gloves. P273 - Avoid release to the environment. P261 - Avoid breathing vapour.
Response	 ▶302 + P352 - IF ON SKIN: Wash with plenty of water. P362 + P364 - Take off contaminated clothing and wash it before reuse.
Storage	: Not applicable.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

SECTION 2: Hazards identification

Hazardous ingredients	Contains: EO bis(benztriazolyl)phenylpropionat; 1,2-benzisothiazol-3(2H)-one an 2-methyl-2H-isothiazol-3-one
Supplemental label elements	
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. 1907/2006, Annex XIII	This mixture does not contain any substances that are assessed to be a PBT or vPvB.
Other hazards which do	None known.

Other hazards which do not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
2-Butoxyethanol	REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0	≤3	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]
Zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≤1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
EO 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]
1,2-benzisothiazol-3(2H)- one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	<0.036	Acute Tox. 4, H302 Acute Tox. 2, H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 450 mg/kg ATE [Inhalation (dusts and mists)] = 0.21 mg/l Skin Sens. 1, H317: C $\geq 0.036\%$ M [Acute] = 1 M [Chronic] = 1	[1]
2-methyl-2H-isothiazol- 3-one	EC: 220-239-6 CAS: 2682-20-4 Index: 613-326-00-9	<0.0015	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: Composition/information on ingredients				
		See Section 16 fo the full text of the statements decla above.	e H	

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

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

SECTION 4: First aid measures

4.1 Description of first aid r	neasures
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.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/sy	r <u>mptoms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
4.3 Indication of any imm	nediate 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

SECTION 5. Fileligi	ling 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	rom the substance or mixture
Hazards from the substance or mixture	: In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. 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). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and material for	co	entainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Absorb with an inert 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. 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.
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.

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SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial sector specific solutions	: 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

Product/ingredient name	Exposure limit values
₽-Butoxyethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin. STEL 15 minutes: 50 ppm. TWA 8 hours: 25 ppm. STEL 15 minutes: 246 mg/m ³ . TWA 8 hours: 123 mg/m ³ .

Biological exposure indices

Product/ingredient name		Exposure indices				
-Butoxyethanol		EH40/2005 BMGVs (United Kingdom (UK), 1/2020) BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Sampling time: post shift.				
Recommended monitoring procedures DNELs/DMELs	European Stan assessment of values and mea atmospheres - of exposure to (Workplace atm for the measure	uld be made to monit dard EN 689 (Workp exposure by inhalatic asurement strategy) Guide for the applica chemical and biologic nospheres - General ement of chemical ag methods for the dete	ace atmospheres - Con to chemical agents European Standard I tion and use of proce cal agents) European requirements for the ents) Reference to r	Suidance for the s for comparison EN 14042 (Wo edures for the a n Standard EN performance of national guidan	e on with rkplace assessr 482 of proce ce	e ment edures
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Product/ingredient name	Result
2-Butoxyethanol	DNEL - General population - Long term - Oral 6.3 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Short term - Oral 26.7 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Long term - Inhalation 59 mg/m ³ <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Inhalation 98 mg/m ³ <u>Effects</u> : Systemic
	DNEL - General population - Short term - Inhalation 147 mg/m ³ Effects: Local
	DNEL - Workers - Short term - Inhalation 246 mg/m³ <u>Effects</u> : Local
	DNEL - General population - Short term - Inhalation 426 mg/m ³ <u>Effects</u> : Systemic
	DNEL - Workers - Short term - Inhalation 1091 mg/m ³ <u>Effects</u> : Systemic
1,2-benzisothiazol-3(2H)-one	DNEL - General population - Long term - Dermal 0.345 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Dermal 0.966 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Long term - Inhalation 1.2 mg/m ³ <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Inhalation 6.81 mg/m ³ <u>Effects</u> : Systemic
2-methyl-2H-isothiazol-3-one	DNEL - General population - Long term - Inhalation 0.021 mg/m ³ <u>Effects</u> : Local
	DNEL - Workers - Long term - Inhalation 0.021 mg/m³ <u>Effects</u> : Local
	DNEL - General population - Long term - Oral 0.027 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Short term - Inhalation 0.043 mg/m ³ Effects: Local

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SECTION 8: Exposure controls/personal protection

DNEL - Workers - Short term - Inhalation 0.043 mg/m³ <u>Effects</u>: Local

DNEL - General population - Short term - Oral

0.053 mg/kg bw/day <u>Effects</u>: Systemic

PNECs

Not available.

8.2 Exposure controls	
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection meas	<u>ures</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment 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 importan aspects of use.
	Filter type (spray application): A P
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

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

Ingredient name		°C	°F	Method	
water		100	212		
2-Butoxyethanol		171 to 171.5	339.8 to 340.7	IP 123-93	
Flammability	: Not ava	ilable.	•		
Lower and upper explosion limit		2.6% (propane-1,; 12.6% (propane-1			
Flash point	: Closed	cup: >100°C (>21	2°F)		

Flash point Auto-ignition temperature

•		

Ingredient name		°C	°F	Method	
2-Butoxyethanol		230	446	DIN 51794	
Polyethylene wax		244.85	472.7		
Decomposition temperature	: Not ava	ilable.			
рН	: 7.5 to 8	.5 [Conc. (% w/	w): 100%]		
Viscosity	: Not ava	ilable.			
Solubility(ies)	:				
Not available.					

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

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Vapour pressure

	Va	Vapour Pressure at 20°C			Vapour pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method		
water	17.5	2.3						
2-Butoxyethanol	0.75006	0.1						
Relative density	: Not	available.	•					

Relative density	· NUL available.
Density	: 1.1 g/cm ³
Vapour density	: Not available.
Particle characteristics	
Median particle size	: Not applicable

- : Not applicable.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

- **Explosive properties** : Not available.
- : Not available. **Oxidising properties**

9.2.2 Other safety characteristics

Not applicable.

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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 def	ined in Regulation (EC) No 1272/2008
Acute toxicity	
Product/ingredient name	Result
√,2-benzisothiazol-3(2H)-one	Rat - Oral - LD50
	1020 mg/kg
2-methyl-2H-isothiazol-3-one	Rat - Inhalation - LC50 Dusts and mists 0.11 mg/l [4 hours]

Conclusion/Summary [Product] : Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
YDRO PROTECT 2181-00	48387.1	N/A	N/A	121.0	N/A
2-Butoxyethanol	1200	N/A	N/A	3	N/A
1,2-benzisothiazol-3(2H)-one	450	N/A	N/A	N/A	0.21
2-methyl-2H-isothiazol-3-one	100	300	N/A	N/A	0.11

Product/ingredient name		Result
2-Butoxyethanol		Rabbit - Skin - Mild irritant
		Amount/concentration applied: 500 mg
Zinc oxide		Rabbit - Skin - Mild irritant
		Duration of treatment/exposure: 24 hours
		Amount/concentration applied: 500 mg
1,2-benzisothiazol-3(2H)-one		Human - Skin - Mild irritant
		Duration of treatment/exposure: 48 hours
		Amount/concentration applied: 5 %
Conclusion/Summary [Product]	: Not available	
Serious eye damage/eye irritation		
Product/ingredient name		Result

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SECTION 11: Toxicological informati	on
2-Butoxyethanol	Rabbit - Eyes - Moderate irritant
	Duration of treatment/exposure: 24 hours Amount/concentration applied: 100 mg
	Rabbit - Eyes - Severe irritant Amount/concentration applied: 100 mg
Zinc oxide	Rabbit - Eyes - Mild irritant
	Duration of treatment/exposure: 24 hours
	Amount/concentration applied: 500 mg
Conclusion/Summary [Product] : Not available	
	•
Respiratory corrosion/irritation	
Not available.	
Conclusion/Summary [Product] : Not available	
Respiratory or skin sensitization	
Not available.	
Skin	
Conclusion/Summary [Product] : Not available	
Respiratory	
Conclusion/Summary [Product] : Not available	
Germ cell mutagenicity	
Not available.	
Conclusion/Summary [Product] : Not available	
	•
Carcinogenicity	
Not available.	
Conclusion/Summary [Product] : Not available	
Reproductive toxicity	
Not available.	
Conclusion/Summary [Product] : Not available	
Specific target organ toxicity (single expective)	
Specific target organ toxicity (single exposure) Not available.	
Specific target organ toxicity (repeated exposure)	
Not available.	
Aspiration hazard Not available.	
Information on likely routes of exposure	
Not available.	
Potential acute health effects	
Eye contact : No known significar	t effects or critical hazards.
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SECTION 11: Toxicological information

Inhalation	known significant effects or critical hazards.	
Skin contact	ay cause an allergic skin reaction.	
Ingestion	known significant effects or critical hazards.	
Symptoms related to the ph	chemical and toxicological characteristics	
Eye contact	specific data.	
Inhalation	specific data.	
Skin contact	verse symptoms may include the following: tation dness	
Ingestion	specific data.	
Delayed and immediate effe	well as chronic effects from short and long-term exposure	
Short term exposure		
Potential immediate effects	t available.	
Potential delayed effects	t available.	
Long term exposure		
Potential immediate effects	t available.	
Potential delayed effects	t available.	
Potential chronic health effe		
Not available.		
Conclusion/Summary [Pro	: Not available.	
General	nce sensitized, a severe allergic reaction may occur when subsequivery low levels.	uently exposed
Carcinogenicity	known significant effects or critical hazards.	
Mutagenicity	known significant effects or critical hazards.	
Reproductive toxicity	known significant effects or critical hazards.	

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity				
Product/ingredient name		Result		
2-Butoxyethanol		Acute - LC50 - Fish - Inland sil <u>Size</u> : 40 to 100 1250000 μg/l [9 <u>Effect</u> : Mortality	verside - <i>Menidia be</i> mm l6 hours]	eryllina
		Acute - LC50 - Crustaceans - (<i>crangon</i> 800000 μg/l [48 <u>Effect</u> : Mortality	Common shrimp, sa	and shrimp - <i>Crangon</i>
Zinc oxide		Acute - LC50 - Daphnia - Wate <u>Age</u> : <24 hours 98 μg/l [48 hour	er flea - <i>Daphnia ma</i>	<i>igna</i> - Neonate
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Effect:	Mortality
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	Effect: Mortality
	Acute - IC50 - Fresh water Algae - Green algae - <i>Pseudokirchneriella subcapitata</i> - Exponential growth phase 46 μg/l [72 hours] <u>Effect</u> : Population
	Acute - LC50 - Fresh water US EPA Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i> <u>Weight</u> : 0.78 g 1.1 ppm [96 hours] <u>Effect</u> : Mortality
1,2-benzisothiazol-3(2H)-one	Acute - LC50 - Fresh water OECD [Fish, Acute Toxicity Test] Fish - Trout - <i>Onorhynchus Mykiss</i> 1.9 mg/l [96 hours]
	Acute - EC50 OECD 202 [Daphnia sp. Acute Immobilization Test and Reproduction Test] Daphnia - Daphnia - <i>Daphnia Magna</i> 3.7 mg/l [48 hours]
	Acute - EC50 - Marine water OECD 201 [Alga, Growth Inhibition Test] Algae - Algae - <i>Skeletonema Costatum</i> 0.36 mg/l [72 hours]
	Acute - NOEC - Marine water OECD 201 [Alga, Growth Inhibition Test] Algae - Algae - <i>Skeletonema Costatum</i> 0.15 mg/l [72 hours]
2-methyl-2H-isothiazol-3-one	Acute - EC50 - Fresh water US EPA Daphnia - Water flea - <i>Daphnia magna</i> <u>Age</u> : <24 hours 0.18 ppm [48 hours] <u>Effect</u> : Intoxication
	Acute - LC50 - Fresh water US EPA Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i> <u>Weight</u> : 0.73 g 0.07 ppm [96 hours] <u>Effect</u> : Mortality
Conclusion/Summary [Product] :	Not available.
12.2 Persistence and degradability	
Product/ingredient name //,2-benzisothiazol-3(2H)-one	Result EU 24% [28 days]

Conclusion/Summary [Product] : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
7,2-benzisothiazol-3(2H)-one	-	-	Inherent

12.3 Bioaccumulative potential

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SECTION 12: Ecological information			
Product/ingredient name	LogPow	BCF	Potential
 Butoxyethanol Zinc oxide 1,2-benzisothiazol-3(2H)-one 	0.81 - -	- 28960 3.2	Low High Low

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logKoc	Кос
₽-Butoxyethanol	1.8	67.3685
1,2-benzisothiazol-3(2H)-one	1.9	73.142
2-methyl-2H-isothiazol-3-one	1.7	54.9187

Results of PMT and vPvM assessment

Product/ingredient name	PMT	Р	М	Т	vPvM	vP	٧M
2-Butoxyethanol	No	No	No	No	No	No	No
Zinc oxide	No	No	No	No	No	No	No
EO bis(benztriazolyl) phenylpropionat	No	No	No	No	No	No	No
1,2-benzisothiazol-3(2H)-one	No	No	No	No	No	No	No
2-methyl-2H-isothiazol-3-one	No	No	No	No	No	No	No

Mobility

Conclusion/Summary

: Not available.

: The product does not meet the criteria to be considered as a PMT or vPvM.

12.5 Results of PBT and vPvB assessment Regulation (EC) No. 1907/2006 [REACH]

Product/ingredient name	PBT	Р	В	т	vPvB	vP	vB
2-Butoxyethanol	No	N/A	N/A	No	N/A	N/A	N/A
Zinc oxide	No	No	No	No	No	No	No
EO bis(benztriazolyl)	No	N/A	N/A	No	N/A	N/A	N/A
phenylpropionat							
1,2-benzisothiazol-3(2H)-one	No	N/A	No	No	No	N/A	No
2-methyl-2H-isothiazol-3-one		N/A	N/A	No	N/A	N/A	N/A

Product/ingredient name	PBT	Р	В	т	vPvB	vP	vB	
2-Butoxyethanol	No	No	No	No	No	No	No	
Zinc oxide	No	No	No	No	No	No	No	
EO bis(benztriazolyl) phenylpropionat	No	No	No	No	No	No	No	
1,2-benzisothiazol-3(2H)-one 2-methyl-2H-isothiazol-3-one		No No	No No	No No	No No	No No	No No	

Conclusion/Summary Regulation (EC) No. 1272/2008 [CLP]

: The product does not meet the criteria to be considered as a PBT or vPvB.

12.6 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product]

: The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

No known significant effects or critical hazards.

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SECTION 13: Disposal considerations

13.1 Waste treatment meth	nods
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)	: 08.01.19
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 or ID number	Not regulated.	9006	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.		
14.3 Transport hazard class(es)	-	9		-
14.4 Packing group	-	-		
14.5 Environmental hazards	No.	Yes.	No.	№ 0.
Additional informa	tion			
ADN	: The product vessels.	ct is only regulated as a c	langerous good whei	n transported in tank
ΙΑΤΑ		nmentally hazardous sub ion regulations.	stance mark may ap	pear if required by other

- **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 Maritime transport in** : Not relevant/applicable due to nature of the product.

bulk according to IMO instruments

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (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.

<u>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous</u> <u>substances, mixtures and articles</u>

Product/ingredient name	%	Designation [Usage]
HYDRO PROTECT 2181-00	≥90	3
Labelling :		
Other EU regulations		
Industrial emissions : Not listed (integrated pollution prevention and control) - Air		
Industrial emissions : Not listed (integrated pollution prevention and control) - Water		
Explosive precursors : Not applical	ole.	
Ozone depleting substances (EU 2024/59 Not listed.	<u>0)</u>	
Prior Informed Consent (PIC) (649/2012/E Not listed.	<u>:U)</u>	
Persistent Organic Pollutants Not listed.		
Seveso Directive		
This product is not controlled under the Seve	eso Directive	е.
International regulations		
Chemical Weapon Convention List Schedu Not listed.	ules I, II & II	I Chemicals
Montreal Protocol Not listed.		
Stockholm Convention on Persistent Orga Not listed.	inic Polluta	<u>nts</u>
Rotterdam Convention on Prior Informed (Not listed.	<u>Consent (Pl</u>	I <u>C)</u>
UNECE Aarhus Protocol on POPs and Hea Not listed.	<u>ivy Metals</u>	
5.2 Chemical safety : This product seessment required.	t contains s	ubstances for which Chemical Safety Assessments are still

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbroviations and	· ATE - Aguto Toxicity Estimato
Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	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
	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
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

H 301	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.
H331	Toxic if inhaled.
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.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

Full text of classifications [CLP/GHS]

Cute 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
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
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
Date of issue/ Date of	: 24/06/2025
revision	
Date of previous issue	e : 10/05/2024
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: 1.01

Notice to reader

SECTION 16: Other information

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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