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



TEKNOCLEAR AQUA 1333-02 - All variants

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

1.1 Product identifier

Product name : TEKNOCLEAR AQUA 1333-02 - 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

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.
Precautionary statements	
Prevention	P280 - Wear protective gloves. P261 - Avoid breathing vapour.
Response	 P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. 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.
Hazardous ingredients	: Contains: 2,4,7,9-tetramethyl-5-decyne-4,7-diol; adipohydrazide and reaction mas of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

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TEKNOCLEAR AQUA 1333-02 - A	Il variants			Label No	98575	5

SECTION 2: Hazards identification

	identification
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 a vPvB.
Other hazards which do not result in classification	: None known.

SECTION 3: Composition/information on ingredients

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3.2 Mixtures	: Mixture					
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре	
2,4,7,9-tetramethyl- 5-decyne-4,7-diol	REACH #: 01-2119954390-39 EC: 204-809-1 CAS: 126-86-3	≤0.3	Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412	-	[1]	
2-Butoxyethanol	REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0	≤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]	
adipohydrazide	REACH #: 01-2119962900-36 EC: 213-999-5 CAS: 1071-93-8	≤0.3	Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[1]	
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3:1)	EC: 911-418-6 CAS: 55965-84-9 Index: 613-167-00-5	<0.0025	Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071	ATE [Oral] = 53 mg/ kg ATE [Dermal] = 50 mg/kg ATE [Inhalation (vapours)] = 0.5 mg/l Skin Corr. 1C, H314: $C \ge 0.6\%$ Eye Dam. 1, H318: $C \ge 0.6\%$ Eye Irrit. 2, H319: $0.06\% \le C < 0.6\%$ Skin Sens. 1, H317: $C \ge 0.0015\%$ M [Acute] = 100 M [Chronic] = 100	[1]	
			See Section 16 for the full text of the H statements declared above.			

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SECTION 3: Composition/information on ingredients

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.

Туре

[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

A Description of the California of the

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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
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 im	mediate medical attention and special treatment needed
Notes to physician	 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

CECTION 0. Threngh	Incubulco	
5.1 Extinguishing media		
Suitable extinguishing media	Ise an extinguishing agent suitable for the surrounding fire.	
Unsuitable extinguishing media	lone known.	
5.2 Special hazards arising	he substance or mixture	
Hazards from the substance or mixture	n a fire or if heated, a pressure increase will occur and the container may b	ourst.
Hazardous combustion products	Decomposition products may include the following materials: arbon dioxide arbon monoxide itrogen 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 intere is a fire. No action shall be taken involving any personal risk or witho uitable training.	
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contain reathing apparatus (SCBA) with a full face-piece operated in positive pres node. Clothing for fire-fighters (including helmets, protective boots and glo onforming to European standard EN 469 will provide a basic level of prote hemical incidents.	sure oves)

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	te	ctive 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	co	ntainment 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.

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. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)	
Recommendations	: Not available.

al sector specific : Not available.

Industrial sector specific : N 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
2-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				
2-Butoxyethanol		EH40/2005 BMGVs BGV: 240 mmol/m Sampling time: post	ol creatinine, butoxy		ırine].	
Recommended monitoring procedures DNELs/DMELs	ould be made to monito andard EN 689 (Workpl of exposure by inhalatio easurement strategy) - Guide for the applicat o chemical and biologic tmospheres - General urement of chemical ag or methods for the deter	ace atmospheres - (on to chemical agents European Standard I tion and use of proce cal agents) Europea requirements for the ents) Reference to r	Guidance for the s for comparise EN 14042 (Wo edures for the a n Standard EN performance con national guidan	e rkplac assess 482 of proc ce	ce sment cedures	
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 DNEL - General population - Long term - Oral 36 mg/kg bw/day Effects: Systemic DNEL - General population - Long term - Inhalation 37.2 mg/m³ Effects: Systemic DNEL - General population - Long term - Dermal 121 mg/kg bw/day Effects: Systemic DNEL - Workers - Long term - Dermal
37.2 mg/m ³ <u>Effects</u> : Systemic DNEL - General population - Long term - Dermal 121 mg/kg bw/day <u>Effects</u> : Systemic
121 mg/kg bw/day <u>Effects</u> : Systemic
DNEL - Workers - Long term - Dermal
283 mg/kg bw/day <u>Effects</u> : Systemic
DNEL - Workers - Long term - Inhalation 308 mg/m ³ <u>Effects</u> : Systemic
DNEL - General population - Long term - Oral 0.29 mg/kg bw/day <u>Effects</u> : Systemic
DNEL - General population - Long term - Dermal 0.29 mg/kg bw/day <u>Effects</u> : Systemic
DNEL - General population - Long term - Inhalation 0.505 mg/m ³ <u>Effects</u> : Systemic
DNEL - Workers - Long term - Dermal 0.812 mg/kg bw/day <u>Effects</u> : Systemic
DNEL - Workers - Long term - Inhalation 2.86 mg/m ³ <u>Effects</u> : Systemic
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/m³ <u>Effects</u> : Systemic
DNEL - General population - Short term - Inhalation 147 mg/m ³ <u>Effects</u> : Local
DNEL - Workers - Short term - Inhalation 246 mg/m³ <u>Effects</u> : Local

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SECTION 8: Exposure controls/personal protection

DNEL - General population - Short term - Inhalation 426 mg/m³ <u>Effects</u>: Systemic

DNEL - Workers - Short term - Inhalation 1091 mg/m³ <u>Effects</u>: Systemic

DNEL - Workers - Long term - Inhalation 17.5 mg/m³ <u>Effects</u>: Systemic

DNEL - General population - Long term - Inhalation 0.02 mg/m³ Effects: Local

DNEL - Workers - Long term - Inhalation 0.02 mg/m³ <u>Effects</u>: Local

DNEL - General population - Short term - Inhalation 0.04 mg/m³ Effects: Local

DNEL - Workers - Short term - Inhalation 0.04 mg/m³ Effects: Local

DNEL - General population - Long term - Oral 0.09 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - General population - Short term - Oral 0.11 mg/kg bw/day <u>Effects</u>: Systemic

PNECs

Not available.

adipohydrazide

220-239-6] (3:1)

reaction mass of: 5-chloro-2-methyl-

2-methyl-2H-isothiazol-3-one [EC no.

4-isothiazolin-3-one [EC no. 247-500-7] and

8.2 Exposure controls		
Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection measur	res	
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

	<u> </u>			
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.		
		Recommendations : Wear suitable gloves tested to EN374.		
		> 8 hours (breakthrough time): Nitrile gloves. thickness > 0.3 mm		
		Not recommended polyvinyl alcohol (PVA) gloves		
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.		
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.		
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.		
		Filter type (spray application): A P		
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.		

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance	
Physical state	: Liquid.
Colour	: Clear.
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		
Dipropyleneglycolmethylether		189.6	373.3	EU A.2	
Flammability	: Not ava	ilable.	1	I	
Lower and upper explosion limit		Not applicable. Not applicable.			
Flash point	: Closed	cup: >100°C (>212	2°F)		
Auto-ignition temperature	:				
Ingredient name		°C	°F	Method	
2-Propanol, 1-(2-butoxy-1-methylethox	(y)	194	381.2	EU A.15	
Dipropyleneglycolmethylether		207	404.6	EU A.15	
Decomposition temperature	: Not ava	ilable.			
рН	: 7.7 to 8	.4 [Conc. (% w/w):	100%]		
Viscosity	: Not ava	ilable.			
Solubility(ies)	:				
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SECTION 9: Physical and chemical properties

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Not available.

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

Vapour pressure

	apour Pres	sure at 20°C	V	Vapour pressure at s		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
water	17.5	2.3				
2-Propanol, 1-(2-butoxy- 1-methylethoxy)	0.045	0.006				
Relative density	: Not	available.	-	·		
Density	: 1 g/	cm³				

	·····
Vapour density	: Not available.
Particle characteristics	

Median particle size	: Not applicable.
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9.2 Other information

9.2.1 Information with rega	rd to physical hazard classes
Explosive properties	: Not available.
Oxidising properties	: Not available.
9.2.2 Other safety characte	ristics

Not applicable.

SECTION 10: Stability and reactivity

10.1 Reactivity	 No specific test data related to reactivity available for this product or its ingredients.
IV. I Reactivity	
10.2 Chemical stability	The product is stable.
10.2 Chemical Stability	
10.3 Possibility of	: Under normal conditions of storage and use, hazardous reactions will not occur.
hazardous reactions	
10.4 Conditions to avoid	No specific data.
10.5 Incompatible materials	: No specific data.
40.011	
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
P	I

SECTION 11: Toxicological information

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

Acute toxicity	
Product/ingredient name	Result
reaction mass of: 5-chloro-2-methyl- 4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Rat - Oral - LD50 53 mg/kg <u>Toxic effects</u> : Behavioral - Somnolence (general depressed activity) Behavioral - Ataxia Lung, Thorax, or Respiration - Respiratory depression

Conclusion/Summary [Product] : Not available.

Acute toxicity estimates

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SECTION II. TOXICOlogical Informati					
Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
TEKNOCLEAR AQUA 1333-02 2-Butoxyethanol reaction mass of: 5-chloro-2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H- isothiazol-3-one [EC no. 220-239-6] (3:1)	N/A 1200 53	N/A N/A 50	N/A N/A N/A	1648.4 3 0.5	N/A N/A N/A

Skin corrosion/irritation Product/ingredient name

2-Butoxyethanol

Dipropyleneglycolmethylether

2,4,7,9-tetramethyl-5-decyne-4,7-diol

Result

Rabbit - Skin - Mild irritant Amount/concentration applied: 500 mg

Rabbit - Skin - Mild irritant Amount/concentration applied: 0.5 gm

Rabbit - Skin - Mild irritant Amount/concentration applied: 500 mg

Amount/concentration applied: 0.01 %

Human - Skin - Severe irritant

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation Due du et/la que die et a

Product/ingredient name Dipropyleneglycolmethylether	Result Human - Eyes - Mild irritant Amount/concentration applied: 8 mg
	Rabbit - Eyes - Mild irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg
2,4,7,9-tetramethyl-5-decyne-4,7-diol	Rabbit - Eyes - Severe irritant Amount/concentration applied: 0.1 MI
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
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	

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SECTION 11: Toxicological information

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 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	<u>s</u>	
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 phy	/si	cal, chemical and toxicological characteristics
Eye contact	:	No specific data.
Inhalation	4	No specific data.
Skin contact	:	Adverse symptoms may include the following: irritation redness
Ingestion	:	No specific data.
Delayed and immediate effect	<u>cts</u>	as well as chronic effects from short and long-term exposure
Short term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	cts	È
Not available.		
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SECTION 11: Toxicological information

Conclusion/Summary [P	Conclusion/Summary [Product] : 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.

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 2,4,7,9-tetramethyl-5-decyne-4,7-diol

Result

LC50 Fish - *Cyprinus carpio* 42 mg/l [96 hours]

EC50

Daphnia - *Daphnia magna* 91 mg/l [48 hours]

2-Butoxyethanol

Acute - LC50 - Marine water

Fish - Inland silverside - *Menidia beryllina* <u>Size</u>: 40 to 100 mm 1250000 μg/l [96 hours] <u>Effect</u>: Mortality

Acute - LC50 - Marine water

Crustaceans - Common shrimp, sand shrimp - *Crangon crangon* 800000 µg/l [48 hours] <u>Effect</u>: Mortality

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Dipropyleneglycolmethylether	0.004		Low
2-Butoxyethanol	0.81		Low

12.4 Mobility in soil

Soil/water partition coefficient

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Product/ingredient name	logKoc	Кос
2,4,7,9-tetramethyl-5-decyne-4,7-diol	1.92	83.8929
2-Butoxyethanol	1.83	67.3685
adipohydrazide	1.74	55.2165

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SECTION 12: Ecological information

Results of PMT and vPvM assessment

Product/ingredient name	PMT	Р	Μ	т	vPvM	vP	٧M
Dipropyleneglycolmethylether	No	No	No	No	No	No	No
2,4,7,9-tetramethyl-	No	No	No	No	No	No	No
5-decyne-4,7-diol							
2-Butoxyethanol	No	No	No	No	No	No	No
adipohydrazide	No	No	No	No	No	No	No
reaction mass of: 5-chloro-	No	No	No	No	No	No	No
2-methyl-4-isothiazolin-							
3-one [EC no. 247-500-7]							
and 2-methyl-2H-isothiazol-							
3-one [EC no. 220-239-6] (3:							
1)							
Mobility	: Not av	ailable.			•		

Conclusion/Summary

: 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	
Dipropyleneglycolmethylether	No	No	No	No	No	No	No	
2,4,7,9-tetramethyl-	No	No	No	No	No	No	No	
5-decyne-4,7-diol								
2-Butoxyethanol	No	No	No	No	No	No	No	
adipohydrazide	No	No	No	No	No	No	No	
reaction mass of: 5-chloro-	No	No	No	No	No	No	No	
2-methyl-4-isothiazolin-								
3-one [EC no. 247-500-7]								
and 2-methyl-2H-isothiazol-								
3-one [EC no. 220-239-6] (3:								
1)								

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

Product/ingredient name	PBT	Р	В	т	vPvB	vP	vB	
Dipropyleneglycolmethylether 2,4,7,9-tetramethyl-	No No							
5-decyne-4,7-diol 2-Butoxyethanol adipohydrazide reaction mass of: 5-chloro-	No No No							
2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3:						140		
1)								

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 metho	ds	
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.
European waste catalogue (EWC)	:	080112, 200128
Packaging		
Methods of disposal	:	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	:	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
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)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

14.6 Special precautions for : user	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**

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

<u>Annex XIV</u>

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

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Product/ingredient name	%	Designation [Usage]	
TEKNOCLEAR AQUA 1333-02	≥90	3	
Labelling :			
Other EU regulations			
Industrial emissions : Not listed (integrated pollution prevention and control) - Air	I		
Industrial emissions : Not listed (integrated pollution prevention and control) - Water	I		
Explosive precursors : Not applie Ozone depleting substances (EU 2024/ Not listed.			
Prior Informed Consent (PIC) (649/2012 Not listed.	<u>2/EU)</u>		
Persistent Organic Pollutants Not listed.			
Seveso Directive This product is not controlled under the Se nternational regulations Chemical Weapon Convention List Sche			
Not listed.			
<u>Nontreal Protocol</u> Not listed.			
Stockholm Convention on Persistent Or Not listed.	r <mark>ganic Pollu</mark>	<u>tants</u>	
Rotterdam Convention on Prior Informe Not listed.	d Consent (PIC)	
INECE Aarhus Protocol on POPs and H	leavy Metals	6	
Not listed.		-	
.2 Chemical safety : This prod sessment required.		substances for which Chemical Safety Asses	sments are still

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	 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 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]

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	Classification	Justification
Skin Sens. 1	, H317	Calculation method
Full text of a	bbreviated H statements	
H301	Toxic if swallowed.	
H302	Harmful if swallowed.	
H310	Fatal 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.	
4411	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]

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
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. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
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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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