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



AQUATOP 2012-02 - All variants

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

1.1	Product identifier	
Р	roduct name	

: AQUATOP 2012-02 - 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 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	Varning	
Hazard statements	H317 - May cause an allergic skin reaction. H412 - Harmful to aquatic life with long lasting effects.	
Precautionary statements		
Prevention	2280 - Wear protective gloves. 2273 - Avoid release to the environment. 2261 - Avoid breathing vapour.	
Response	P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water.	
Storage	Not applicable.	
Disposal	P501 - Dispose of contents and container in accordance with all local, reg national and international regulations.	ional,

SECTION 2: Hazards identification

Hazardous ingredients	: Contains: 3-iodo-2-propynyl-butyl carbamate; adipohydrazide; 4,5-dichloro-2-octyl- 2H-isothiazol-3-one and 1,2-benzisothiazol-3(2H)-one
Supplemental label elements	: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. Contains biocidal products for dry film and in-can preservation: IPBC and DCOIT and BIT and MIT and OIT. Risk of skin sensitisation.
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

Item dioxideREACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7 $\geq 10 - \leq 25$ Carc. 2, H351 (inhalation)and ATEs2-ButoxyethanolREACH #: 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, H319ATE [Oral] = 1200 mg/kg ATE [Inhalation (vapours)] = 3 mg/l[1]2-(2-butoxyethoxy)ethanolREACH #: 01-2119475104-44 EC: 203-961-6 CAS: 112-34-5 Index: 603-096-00-8 ≤ 1 Eye Irrit. 2, H319 EYe Irrit. 2, H319 $-$ [1]3-iodo-2-propynyl-butyl carbamateEC: 259-627-5 CAS: 55406-53-6 Index: 616-212-00-7 ≤ 0.2 Acute Tox. 4, H302 Acute Tox. 3, H331 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 1, H372 (larynx) Aquatic Chronic 1, H410ATE [Oral] = 400 mg/kg ATE [Inhalation (dusts and mists)] = 0.67 mg/l M [Acute] = 10 M [Chronic] = 1 M [Chronic] = 1 M [Chronic] = 10[1]adipohydrazideREACH #: 01-2119962900-36 EC: 213-999-5 CAS: 1071-93-8 ≤ 0.3 Skin Sens. 1, H317 Aquatic Chronic 2, H411 $-$ [1]	3.2 Mixtures	: Mixture	1			
01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7 \leq 1(inhalation)ATE [Oral] = 1200 mg/kg ATE [Inhalation (vapours)] = 3 mg/l2-ButoxyethanolREACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0 \leq 3Acute Tox. 4, H302 Acute Tox. 3, H331 Skin Irrit. 2, H319ATE [Oral] = 1200 mg/kg ATE [Inhalation (vapours)] = 3 mg/l2-(2-butoxyethoxy)ethanolREACH #: 01-2119475104-44 EC: 203-961-6 CAS: 112-34-5 Index: 603-096-00-8<1Eye Irrit. 2, H319-3-iodo-2-propynyl-butyl carbamateEC: 259-627-5 Lidex: 616-212-00-7<0.2Acute Tox. 4, H302 Acute Tox. 3, H331 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE, IH372 (larynx) Aquatic Acute 1, H400 Aquatic Chronic 1, H410ATE [Oral] = 400 mg/kg ATE [Inhalation (dusts and mists)] = 0.67 mg/l M [Acute] = 10 M [Chronic] = 1 Aquatic Chronic 2, H411adipohydrazideREACH #: 01-2119962900-36 EC: 213-999-5 CAS: 1071-93-8<0.3Skin Sens. 1, H317 Aquatic Chronic 2, H411-propylidynetrimethanolREACH #: 01-2119486799-10 EC: 201-074-9<0.3Skin Sens. 1, H317 Aguatic Chronic 2, H411-	Product/ingredient name	Identifiers	%	Classification	Limits, M-factors	Туре
01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319 mg/kg ATE [Inhalation (vapours)] = 3 mg/l2-(2-butoxyethoxy)ethanolREACH #: 01-2119475104-44 EC: 203-961-6 CAS: 112-34-5 Index: 603-096-00-8<1	Manium dioxide	01-2119489379-17 EC: 236-675-5	≥10 - ≤25		-	[1] [*]
$01-2119475104-44$ EC: 203-961-6 CAS: 112-34-5 Index: 603-096-00-8 ≤ 0.2 Acute Tox. 4, H302 	2-Butoxyethanol	01-2119475108-36 EC: 203-905-0 CAS: 111-76-2	≤3	Acute Tox. 3, H331 Skin Irrit. 2, H315	mg/kg ATE [Inhalation	[1] [2]
carbamateCAS: 55406-53-6 Index: 616-212-00-7Acute Tox. 3, H331 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 1, H372 (larynx) Aquatic Acute 1, H400 Aquatic Chronic 1, H410mg/kg ATE [Inhalation (dusts and mists)] $= 0.67 mg/l$ M [Acute] $= 10$ 	2-(2-butoxyethoxy)ethanol	01-2119475104-44 EC: 203-961-6 CAS: 112-34-5	<1	Eye Irrit. 2, H319	-	[1] [2]
01-2119962900-36 EC: 213-999-5 CAS: 1071-93-8Aquatic Chronic 2, H411propylidynetrimethanolREACH #: 01-2119486799-10 EC: 201-074-9 ≤ 0.3 Repr. 2, H361fd-[1]		CAS: 55406-53-6	≤0.2	Acute Tox. 3, H331 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 1, H372 (larynx) Aquatic Acute 1, H400 Aquatic Chronic 1,	mg/kg ATE [Inhalation (dusts and mists)] = 0.67 mg/l M [Acute] = 10	[1]
01-2119486799-10 EC: 201-074-9	adipohydrazide	01-2119962900-36 EC: 213-999-5	≤0.3	Aquatic Chronic 2,	-	[1]
	propylidynetrimethanol	01-2119486799-10 EC: 201-074-9	≤0.3	Repr. 2, H361fd	-	[1]
Date of issue/Date of revision: 24/08/2023Date of previous issue: 03/10/2022Version: 32	Date of issue/Date of revision	: 24/08/2023 Date	e of previous is	sue : 03/10/2022	Version : 3	2/18

SECTION 3: Compo	sition/informat	ion on in	gredients		
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	STOT SE 3, H335: C ≥ 5% M [Acute] = 1	[1] [2]
4,5-dichloro-2-octyl-2H- isothiazol-3-one	EC: 264-843-8 CAS: 64359-81-5 Index: 613-335-00-8	≤0.022	Acute Tox. 4, H302 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] = 567 mg/kg ATE [Inhalation (dusts and mists)] = 0.16 mg/l Skin Corr. 1, H314: $C \ge 5\%$ Skin Irrit. 2, H315: 0.025% $\le C < 5\%$ Eye Dam. 1, H318: $C \ge 3\%$ Eye Irrit. 2, H319: 0.025% $\le C < 3\%$ Skin Sens. 1, H317: $C \ge 0.0015\%$ M [Acute] = 100 M [Chronic] = 100	[1]
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]
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 M [Chronic] = 1	[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)	CAS: 55965-84-9 Index: 613-167-00-5	<0.001	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.		

: 24/08/2023 Date of previous issue

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

[*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form

containing 1% or more of titanium dioxide particles with aerodynamic diameter \leq 10 µm not bound within a matrix.

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

SECTION 4: First aid measures

4.1 Description of first aid m	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.

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 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.

: 24/08/2023 Date of previous issue

SECTION 5: Firefighting measures

SECTION 5. Thengi		ig 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	fron	n 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

AQUATOP 2012-02 - All variants	s		Label No :#9404
Date of issue/Date of revision		: 24/08/2023 Date of previous issue : 03/10/2022	Version : 3 5/18
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal personal personal personal personal personal personal see Section 13 for additional waste treatment information	
Large spill	:	Stop leak if without risk. Move containers from spill area from upwind. Prevent entry into sewers, water courses, areas. Wash spillages into an effluent treatment plant o Contain and collect spillage with non-combustible, absor earth, vermiculite or diatomaceous earth and place in co according to local regulations. Dispose of via a licensed Contaminated absorbent material may pose the same h	basements or confined r proceed as follows. bent material e.g. sand, ntainer for disposal waste disposal contractor.
Small spill	:	Stop leak if without risk. Move containers from spill area up if water-soluble. Alternatively, or if water-insoluble, a material and place in an appropriate waste disposal con licensed waste disposal contractor.	bsorb with an inert dry tainer. Dispose of via a
6.3 Methods and material for c	:0	ntainment and cleaning up	
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact v and sewers. Inform the relevant authorities if the produc pollution (sewers, waterways, soil or air). Water pollution to the environment if released in large quantities.	t has caused environmental
For emergency responders	:	If specialised clothing is required to deal with the spillage information in Section 8 on suitable and unsuitable mate information in "For non-emergency personnel".	
For non-emergency personnel	:	No action shall be taken involving any personal risk or w Evacuate surrounding areas. Keep unnecessary and ur entering. Do not touch or walk through spilt material. A mist. Provide adequate ventilation. Wear appropriate re inadequate. Put on appropriate personal protective equi	protected personnel from void breathing vapour or espirator when ventilation is

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.

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

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 ³ 15 minutes.
	TWA: 123 mg/m ³ 8 hours.
2-(2-butoxyethoxy)ethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	TWA: 10 ppm 8 hours.
	STEL: 15 ppm 15 minutes.
	TWA: 67.5 mg/m ³ 8 hours.
	STEL: 101.2 mg/m ³ 15 minutes.
Ammonia	EH40/2005 WELs (United Kingdom (UK), 1/2020). [ammonia
	anhydrous]
	STEL: 25 mg/m ³ 15 minutes. Form: anhydrous
	STEL: 35 ppm 15 minutes. Form: anhydrous
	TWA: 25 ppm 8 hours. Form: anhydrous
	TWA: 18 mg/m ³ 8 hours. Form: anhydrous

Biological exposure indices

Product/ingredient name	Exposure indices
Butoxyethanol	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Sampling time: post shift.

Date of issue/Date of revision AQUATOP 2012-02 - All variants : 24/08/2023 Date of previous issue

:03/10/2022

Version : 3 6/18 Label No : 49404

SECTION 8: Exposure controls/personal protection

procedures

Recommended monitoring : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (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	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 ³	General	Systemic
		Inhalation	<u>-</u>	population	- ,
	DNEL	Long term	98 mg/m³	Workers	Systemic
	DIVLL	Inhalation	50 mg/m	WOINCIS	Oysternie
			1 4 7 100 01/100 3	Comorol	
	DNEL	Short term	147 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Short term	246 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Short term	426 mg/m ³	General	Systemic
		Inhalation	_	population	-
	DNEL	Short term	1091 mg/	Workers	Systemic
		Inhalation	m ³		,
3-iodo-2-propynyl-butyl carbamate	DNEL	Long term	0.023 mg/	Workers	Systemic
	DITE	Inhalation	m ³	Wontoro	eyetenne
	DNEL	Short term	0.07 mg/m ³	Workoro	Systemic
	DINEL		0.07 mg/m	WUIKEIS	Systemic
		Inhalation	4.40 / 3		
	DNEL	Short term	1.16 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Long term	1.16 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Long term Dermal	2 mg/kg	Workers	Systemic
		5	bw/day		,
adipohydrazide	DNEL	Long term	17.5 mg/m ³	Workers	Systemic
adipolitydrazide	DIVLL	Inhalation	17.5 mg/m	WOINCI3	Oysternie
propylidynetrimethanol	DNEL		0.34 mg/	General	Svotomio
	DINEL	Long term Oral			Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	0.34 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	0.58 mg/m ³		Systemic
		Inhalation		population	
	DNEL	Long term Dermal	0.94 mg/	Workers	Systemic
		Ŭ	kg bw/day		
	DNEL	Long term	3.3 mg/m ³	Workers	Systemic
		Inhalation	e.eg		-)
1,2-benzisothiazol-3(2H)-one	DNEL	Long term Dermal	0.345 mg/	General	Systemic
1,2 DOI2000110201-0(211)-0110		Long term Dennal	kg bw/day	population	Cysternic
		Long torm Dormal			Sustamia
	DNEL	Long term Dermal	0.966 mg/	Workers	Systemic
			kg bw/day	a .	
	DNEL	Long term	1.2 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term	6.81 mg/m ³	Workers	Systemic
		Inhalation			
2-methyl-2H-isothiazol-3-one	DNEL	Long term	0.021 mg/	General	Local
		Inhalation	m ³	population	
	DNEL	Long term	0.021 mg/	Workers	Local
		Inhalation	0.02 1 mg/ m ³	W UNCIS	Local
	האורי			Conoral	Cuptorni-
	DNEL	Long term Oral	0.027 mg/	General	Systemic
			kg bw/day	population	
	•	Date of previous issue	: 03/10/20		/ersion : 3 7/18

AQUATOP 2012-02 - All variants

	DNEL	Short term	0.043 mg/	General	Local
	DNEL	Inhalation Short term Inhalation	m ³ 0.043 mg/ m ³	population Workers	Local
	DNEL	Short term Oral	0.053 mg/ kg bw/day	General population	Systemic
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)	DNEL	Long term Inhalation	0.02 mg/m ³	General population	Local
(0.1)	DNEL	Long term Inhalation	0.02 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	0.04 mg/m ³	General population	Local
	DNEL	Short term Inhalation	0.04 mg/m ³	Workers	Local
	DNEL	Long term Oral	0.09 mg/ kg bw/day	General population	Systemic
	DNEL	Short term Oral	0.11 mg/ kg bw/day	General population	Systemic

PNECs

No PNECs available

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

: 24/08/2023 Date of previous issue

SECTION 8: Exposure controls/personal protection

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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

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

: Not available. Flammability

Lower and upper explosion	: Lower: Not applicable.
limit	Upper: Not applicable.

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Flash point

: Closed cup: >100°C (>212°F)

Auto-ignition temperature

Ingredient name	°C	°F	Method
2-Butoxyethanol	230	446	DIN 51794

Decomposition temperature	1	Not available.
pH	:	8.1 to 8.8 [Conc. (% w/w): 100%]
Viscosity	1	Not available.
Solubility(ies)	:	
Not available.		
Solubility in water	:	Not available.
Partition coefficient: n-octanol/	÷	Not applicable.

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water

Vapour pressure

	Va	apour Pres	sure 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.			4	L	
Density	: 1.2	g/cm³					
/apour density	: Not	available.					
Explosive properties	: Not	available.					
Oxidising properties	: Not	available.					
nte of issue/Date of revision	: 24/08/2	2023 Date	of previous issue	: 03/10/2022		Version : 3	9/18
QUATOP 2012-02 - All vari	iants				L	abel No : <mark>4</mark> 94	04

SECTION 9: Physical and chemical properties

Particle characteristics Median particle size

: Not applicable.

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

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
3-iodo-2-propynyl-butyl	LC50 Inhalation Dusts and	Rat	0.67 g/m³	4 hours
carbamate	mists			
	LC50 Inhalation Dusts and	Rat	0.763 mg/l	4 hours
	mists			
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	400 mg/kg	-
propylidynetrimethanol	LD50 Oral	Rat	14000 mg/kg	-
4,5-dichloro-2-octyl-2H-	LC50 Inhalation Dusts and	Rat - Male,	0.26 mg/l	4 hours
isothiazol-3-one	mists	Female		
	LD50 Dermal	Rabbit	>652 mg/kg	-
	LD50 Oral	Rat	1585 mg/kg	-
1,2-benzisothiazol-3(2H)- one	LD50 Oral	Rat	1020 mg/kg	-
2-methyl-2H-isothiazol- 3-one	LC50 Inhalation Dusts and mists	Rat	0.11 mg/l	4 hours
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin-	LD50 Oral	Rat	53 mg/kg	-
3-one [EC no. 247-500-7]				
and 2-methyl-2H-isothiazol-				
3-one [EC no. 220-239-6] (3:				
1)				

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

Acute toxicity estimates

Route	ATE value
	54495.49 mg/kg 136.24 mg/l
	327.67 mg/l

Irritation/Corrosion

: 24/08/2023 Date of previous issue

SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300	-
2-Butoxyethanol	Eyes - Moderate irritant	Rabbit	-	ug I 24 hours 100 mg	-
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
3-iodo-2-propynyl-butyl carbamate	Eyes - Severe irritant	Rabbit	-	-	-
1,2-benzisothiazol-3(2H)-one	Skin - Mild irritant	Human	-	48 hours 5 %	-
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin-	Skin - Severe irritant	Human	-	0.01 %	-
3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-					
3-one [EC no. 220-239-6] (3: 1)					

Conclusion/Summary

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

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
了iodo-2-propynyl-butyl carbamate	skin	Guinea pig	Not sensitizing

Conclusion/Summary : May cause an allergic skin reaction.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
了iodo-2-propynyl-butyl carbamate	-	Experiment: In vitro Subject: Bacteria	Negative

Conclusion/Summary

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

Carcinogenicity

It has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

Conclusion/Summary

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

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
riodo-2-propynyl-butyl carbamate	Negative	-	Negative	Rabbit - Female	Oral: 20 mg/kg	13 days; 7 days per week
	Positive	-	Negative	Rabbit - Female	Oral: 50 mg/kg	13 days; 7 days per week

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

Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure
了iodo-2-propynyl-butyl carbamate	Negative - Oral	Rabbit - Female	50 mg/kg	-

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

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
3-iodo-2-propynyl-butyl carbamate	Category 1	-	larynx

SECTION 11: Toxicological information

Aspiration hazard

Not available.

Information on likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact	:	No known significant effects or critical hazards.
Inhalation	;	No known significant effects or critical hazards.
Skin contact	;	May cause an allergic skin reaction.
Ingestion	;	No known significant effects or critical hazards.

Symptoms related to the	physical chemical and	toxicological characteristics
Ovinptonia related to the	priysical, chemical and	toxicological characteristics

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

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

	to do well do officilito effecto from short and long term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects
Not available.	
Conclusion/Summary	: Not available.
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

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

SECTION 12: Ecological information

Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - <i>Daphnia pulex -</i> Neonate	48 hours
	Acute LC50 >1000000 μg/l Marine water	Fish - Fundulus heteroclitus	96 hours
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
3-iodo-2-propynyl-butyl carbamate	Acute EC50 0.022 mg/l Fresh water	Algae - Scenedemus subspicatus	72 hours
	Acute EC50 0.16 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 0.067 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute NOEC 0.049 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.05 mg/l Fresh water	Daphnia - Daphnia Magna	21 days
propylidynetrimethanol	Acute EC50 13000000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 14400000 µg/l Marine water	Fish - Cyprinodon variegatus	96 hours
4,5-dichloro-2-octyl-2H- isothiazol-3-one	Acute EC50 0.003 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 18 ppb Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 0.001 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 22 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 2.7 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 19.789 µg/l Marine water	Algae - Nitzschia pungens	96 hours
	Chronic NOEC 0.56 ppb	Fish - Oncorhynchus mykiss	97 days
1,2-benzisothiazol-3(2H)-one	Acute EC50 0.36 mg/l Marine water	Algae - Skeletonema Costatum	72 hours
	Acute EC50 3.7 mg/l	Daphnia - <i>Daphnia Magna</i>	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
2-methyl-2H-isothiazol-3-one	Acute EC50 0.18 ppm Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
,	Acute LC50 0.07 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours

Conclusion/Summary : Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
7,2-benzisothiazol-3(2H)-one	EU	24 % - 28 days		-	-
Conclusion/Summary : This product has not been tested for biodegradation.					
Product/ingredient name	Aquatic half-life		Photolysis	\$	Biodegradability
 Fiodo-2-propynyl-butyl carbamate 1,2-benzisothiazol-3(2H)-one 	-		-		Not readily Inherent

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-Butoxyethanol	0.81	-	Low
3-iodo-2-propynyl-butyl carbamate	>1	-	Low
propylidynetrimethanol	-0.47	<1	Low
1,2-benzisothiazol-3(2H)-one	-	3.2	Low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

Date of issue/Date of revision AQUATOP 2012-02 - All variants : 24/08/2023 Date of previous issue

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

ods
: 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.
: 080111*, 200127*
: 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.
: 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.

user

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

: 24/08/2023 Date of previous issue

SECTION 14: Transport information

14.7 Maritime transport in bulk according to IMO instruments

: Not relevant/applicable due to nature of the product.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture 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]	
QUATOP 2012-02		≥90	3	
Labelling Other EU regulations	:	•		
	: Not listed			
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed			
Explosive precursors Ozone depleting substance Not listed.	: Not applicab <u>s (1005/2009/E</u>			
Prior Informed Consent (PIC Not listed.	<u>C) (649/2012/El</u>	<u>(ר</u>		
Persistent Organic Pollutan Not listed.	<u>ts</u>			
Seveso Directive This product is not controlled International regulations Chemical Weapon Convention Not listed.			<u>Chemicals</u>	
Montreal Protocol Not listed.				
Stockholm Convention on Per Not listed.	ersistent Orgai	nic Pollutant	<u>'S</u>	
Rotterdam Convention on Pr Not listed.	ior Informed C	onsent (PIC)	
UNECE Aarhus Protocol on F Not listed.	POPs and Heav	<u>vy Metals</u>		
15.2 Chemical safety assessment	: This product required.	contains sub	ostances for which Chemical Safe	ty Assessments are still
Date of issue/Date of revision	: 24/08/2023	Date of previo	us issue : 03/10/2022	Version : 3 15/18

SECTION 16: Other information

Indicates information that has changed from previously issued version.

	and the only god non provodely located 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]

Classification	Justification
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

	Sieviated in statements
⊮ 301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
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.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
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]

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
Carc. 2	CARCINOGENICITY - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Corr. 1	SKIN CORROSION/IRRITATION - Category 1
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
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
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
Date of issue/ Date of	: 24/08/2023

revision

Date of issue/Date of revision	: 24/08/2023	Date of previous issue	:03/10/2022	Version	:3	16/18
AQUATOP 2012-02 - All variants				Label No	<mark>#</mark> 9404	1

SECTION 16: Other information

Date of previous issue	: 03/10/2022		
Version	: 3		

All variants

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.

Date of issue/Date of revision AQUATOP 2012-02 - All variants : 24/08/2023 Date of previous issue

:03/10/2022

Version : 3 18/18 Label No :49404