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



TEKNOL AQUA 1412-01 - All variants

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

1.1 Product identifier	
Product name	: TEKNOL AQUA 1412-01 - All variants

1.2 Relevant identified uses of the substance or mixture and uses advised againstProduct use: Wood preservatives Apply this product only as specified on the label.

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]

Repr. 1B, H360D Aquatic Chronic 2, H411

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	Danger
Hazard statements	H360D - May damage the unborn child. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	 P201 - Obtain special instructions before use. P280 - Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. P273 - Avoid release to the environment.
Response	P391 - Collect spillage. P308 + P313 - IF exposed or concerned: Get medical advice or attention.
Storage	Not applicable.
Disposal	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

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SECTION 2: Hazards identification

Hazardous ingredients	Contains: Propiconazole	
Supplemental label elements	Contains Propiconazole and 3-iodo-2-propynyl-butyl carbamate. May produce allergic reaction.	e an
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Restricted to professional users.	
2.3 Other hazards		
Product meets the criteria	This mixture does not contain any substances that are assessed to be a PBT	ora

This mixture does not contain any substances that are assessed to be a PBT or a luct meets the criteria for PBT or vPvB according vPvB. to Regulation (EC) No. 1907/2006, Annex XIII

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures Product/ingredient name	: Mixture	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Alcohols, C16-18 and C18-unsatd., ethoxylated (8 EO)	REACH #: 01-2119489407-26 EC: 500-236-9 CAS: 68920-66-1	≤3	Skin Irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 3, H412	M [Acute] = 1	[1]
Propiconazole	EC: 262-104-4 CAS: 60207-90-1 Index: 613-205-00-0	<1	Acute Tox. 4, H302 Skin Sens. 1, H317 Repr. 1B, H360D Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 1517 mg/kg M [Acute] = 1 M [Chronic] = 1	[1]
3-iodo-2-propynyl-butyl carbamate	EC: 259-627-5 CAS: 55406-53-6 Index: 616-212-00-7	≤0.3	Acute Tox. 4, H302 Acute Tox. 3, H331 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 1, H372 (larynx) Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 400 mg/kg ATE [Inhalation (dusts and mists)] = 0.67 mg/l M [Acute] = 10 M [Chronic] = 1	[1]
Tebuconazol	REACH #: 01-0000015329-67 EC: 403-640-2 CAS: 107534-96-3 Index: 603-197-00-7	≤0.3	Acute Tox. 4, H302 Repr. 2, H361d Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/kg M [Acute] = 1 M [Chronic] = 10	[1]
Bronopol	EC: 200-143-0 CAS: 52-51-7 Index: 603-085-00-8	≤0.1	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 307 mg/kg ATE [Dermal] = 1100 mg/kg M [Acute] = 10	[1]

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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

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

SECTION 4: First aid measures

4.1 Description of first aid n	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 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	: Flush contaminated skin with plenty of 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. 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. 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. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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

Eye contact: No specific data.Inhalation: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformationsSkin contact: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformationsIngestion: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformationsIngestion: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations	Over-exposure signs/s	symptoms
reduced foetal weight increase in foetal deaths skeletal malformations Skin contact : Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations Ingestion : Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations : Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths	Eye contact	: No specific data.
reduced foetal weight increase in foetal deaths skeletal malformations Ingestion : Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths	Inhalation	reduced foetal weight increase in foetal deaths
reduced foetal weight increase in foetal deaths	Skin contact	reduced foetal weight increase in foetal deaths
	Ingestion	reduced foetal weight increase in foetal deaths

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 guantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

SECTION 5: Firefighting measures

SECTION 5. Fireligh	ing 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 f	om 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 toxic 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
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 i 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, pro	ote	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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
6.3 Methods and material for	со	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.

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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). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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. Store locked up. 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.

Seveso Directive - Reporting thresholds

Danger criteria		
	Notification and MAPP threshold	Safety report threshold
E2	200 tonnes	500 tonnes

7.3 Specific end use(s)

: Not available.

Recommendations 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
No exposure limit value known.	

Biological exposure indices

Product/ingredient name		Exposure indices	
No exposure indices known.			
procedures	European Stand assessment of e values and mea atmospheres - C of exposure to c (Workplace atm for the measure	Id be made to monitoring standards, such as the following: lard EN 689 (Workplace atmospheres - Guidance for the exposure by inhalation to chemical agents for comparison with limit surement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assessment chemical and biological agents) European Standard EN 482 ospheres - General requirements for the performance of procedures ment of chemical agents) Reference to national guidance nethods for the determination of hazardous substances will also be	

required.

DNELs/DMELs

Product/ingredient name Dipropyleneglycolmethylether

Alcohols, C16-18 and C18-unsatd.,

ethoxylated (8 EO)

Propiconazole

Result

DNEL - General population - Long term - Oral 36 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation 37.2 mg/m³ <u>Effects</u>: Systemic

DNEL - General population - Long term - Dermal 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/m³ <u>Effects</u>: Systemic

DNEL - General population - Long term - Oral 1.5 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - General population - Long term - Inhalation 3.92 mg/m³ <u>Effects</u>: Systemic

DNEL - Workers - Long term - Inhalation 22.2 mg/m³ Effects: Systemic

DNEL - General population - Long term - Dermal 75 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - Workers - Long term - Dermal 210 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - General population - Long term - Oral 0.08 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - General population - Long term - Dermal 0.14 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - General population - Long term - Inhalation 0.24 mg/m³ <u>Effects</u>: Systemic

DNEL - Workers - Long term - Dermal 0.38 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - Workers - Long term - Inhalation 1.35 mg/m³ <u>Effects</u>: Systemic

DNEL - Workers - Long term - Inhalation 0.023 mg/m³

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3-iodo-2-propynyl-butyl carbamate

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	Effects: Systemic
	DNEL - Workers - Short term - Inhalation 0.07 mg/m ³ Effects: Systemic
	DNEL - Workers - Short term - Inhalation 1.16 mg/m³ <u>Effects</u> : Local
	DNEL - Workers - Long term - Inhalation 1.16 mg/m³ <u>Effects</u> : Local
	DNEL - Workers - Long term - Dermal 2 mg/kg bw/day <u>Effects</u> : Systemic
Bronopol	DNEL - General population - Short term - Oral 0.5 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Short term - Inhalation 1.8 mg/m ³ <u>Effects</u> : Systemic
	DNEL - General population - Short term - Dermal 2.1 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - Workers - Short term - Dermal 6 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - Workers - Short term - Inhalation 10.5 mg/m ³ <u>Effects</u> : Systemic
	DNEL - General population - Short term - Dermal 4 μg/cm ² <u>Effects</u> : Local
	DNEL - General population - Long term - Dermal 4 μg/cm ² <u>Effects</u> : Local
	DNEL - Workers - Short term - Dermal 8 μg/cm² <u>Effects</u> : Local
	DNEL - Workers - Long term - Dermal 8 μg/cm² <u>Effects</u> : Local
	DNEL - General population - Long term - Oral 0.18 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Short term - Inhalation 0.6 mg/m ³ Effects: Local
	DNEL - General population - Long term - Inhalation

DNEL - General population - Long term - Inhalation 0.6 mg/m³ <u>Effects</u>: Local

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DNEL - General population - Long term - Inhalation 0.6 mg/m³ Effects: Systemic

DNEL - General population - Long term - Dermal 0.7 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - Workers - Long term - Dermal 2 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - Workers - Short term - Inhalation 2.5 mg/m³ Effects: Local

DNEL - Workers - Long term - Inhalation 2.5 mg/m³ <u>Effects</u>: Local

DNEL - Workers - Long term - Inhalation 3.5 mg/m³ Effects: Systemic

PNECs

Not available.

Appropriate engineering controls	: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Individual protection meas	<u>Jres</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 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 manufacture 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.
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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

Appearance

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

	Ingredient name	°C	°F	Method
water		100	212	
	Dipropyleneglycolmethylether	189.6	373.3	EU A.2
F	lammability : Not ava	ilable.	i .	

Lower and upper explosion limit

: Not available.

1	а.	Lower: 1.1% ((2-methoxymethylethoxy)propanol)
		Upper: 14% ((2-methoxymethylethoxy)propanol)
	÷	Closed cup: >100°C (>212°F)

Flash point **Auto-ignition temperature**

Ingredient name	°C	°F	Method
Dipropyleneglycolmethylether	207	404.6	EU A.15

Decomposition temperature	: Not available.
рН	: 7 to 9 [Conc. (% w/w): 100%]
Viscosity	: Kinematic (40°C): >20.5 mm ² /s
Solubility(ies)	1
Not available.	
Solubility in water	: Not available.

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Partition	coefficient: n-octanol/	1	Not applicable.
water			

Vapour pressure

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C			
	mm Hg	kPa	Method	mm Hg	kPa	Method	
water	17.5	2.3					
Relative density	: Not	available.					
Density	: 1 g/	cm³					
Vapour density	: Not available.						
Particle characteristics							
Median particle size	: Not	applicable.					

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SECTION 9: Physical and chemical properties

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.

SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredient	ls.
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 de	efined in Regulation (EC) No 1272/2008
Acute toxicity	
Product/ingredient name Propiconazole	<mark>Result</mark> Rat - Oral - LD50 1517 mg/kg
	Rat - Dermal - LD50 >4000 mg/kg
	Rat - Inhalation - LC50 Dusts and mists 5.8 mg/l [4 hours]
3-iodo-2-propynyl-butyl carbamate	Rat - Oral - LD50 400 mg/kg
	Rat - Dermal - LD50 >2000 mg/kg
	Rat - Inhalation - LC50 Dusts and mists 0.763 mg/l [4 hours]
	Rat - Inhalation - LC50 Dusts and mists 0.67 g/m ³ [4 hours]
Tebuconazol	Rat - Oral - LD50 3352 mg/kg <u>Toxic effects</u> : Behavioral - Somnolence (general depressed activity) Behavioral - Ataxia Kidney, Ureter, and Bladder - Urine volume increased
	Rat - Dermal - LD50 >5 g/kg
	Rabbit - Dermal - LD50 >5000 mg/kg
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SECTION 11: Toxicological information

Rat - Inhalation - LC50 Vapour 0.371 g/m³ [4 hours]

Bronopol

Rat - Dermal - LD50 4750 mg/kg

Rat - Oral - LD50 307 mg/kg

Rat - Inhalation - LC50 Dusts and mists

>0.588 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)
TEKNOL AQUA 1412-01	N/A	N/A	N/A	N/A	223.3
Propiconazole	1517	N/A	N/A	N/A	5.8
3-iodo-2-propynyl-butyl carbamate	400	N/A	N/A	N/A	0.67
Tebuconazol	500	N/A	N/A	N/A	N/A
Bronopol	307	1100	N/A	N/A	N/A

Result

Skin corrosion/irritation Product/ingredient name

Dipropyleneglycolmethylether		Rabbit - Skin - Mild irritant Amount/concentration applied: 500 mg
Bronopol		Human - Skin - Moderate irritant Amount/concentration applied: 10 mg
		Rabbit - Skin - Mild irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg
		Rabbit - Skin - Moderate irritant Amount/concentration applied: 80 mg
Conclusion/Summary [Product]	: Not available	
Serious eye damage/eye irritation		
Product/ingredient name		Result
Dipropyleneglycolmethylether		Human - Eyes - Mild irritant
Dipropylenegiyeeimetriyetter		Amount/concentration applied: 8 mg
		Rabbit - Eyes - Mild irritant <u>Duration of treatment/exposure</u> : 24 hours <u>Amount/concentration applied</u> : 500 mg
3-iodo-2-propynyl-butyl carbamate		Duration of treatment/exposure: 24 hours
3-iodo-2-propynyl-butyl carbamate Conclusion/Summary [Product]	: Not available	<u>Duration of treatment/exposure</u> : 24 hours <u>Amount/concentration applied</u> : 500 mg Rabbit - Eyes - Severe irritant
	: Not available	<u>Duration of treatment/exposure</u> : 24 hours <u>Amount/concentration applied</u> : 500 mg Rabbit - Eyes - Severe irritant

Conclusion/Summary [Product] : Not available.

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SECTION 11: Toxicological information

Respiratory or skin sensitization Product/ingredient name Result Propiconazole Guinea pig - skin Result: Sensitising Guinea pig - skin 3-iodo-2-propynyl-butyl carbamate Result: Not sensitizing Skin **Conclusion/Summary** [Product] : Not available. Respiratory Conclusion/Summary [Product] : Not available. Germ cell mutagenicity **Product/ingredient name** Result Propiconazole **Bacteria** OECD [Bacterial Reverse Mutation Test] **Result: Negative** 3-iodo-2-propynyl-butyl carbamate In vitro - Bacteria **Result: Negative** Conclusion/Summary [Product] : Not available. Carcinogenicity Not available. **Conclusion/Summary [Product]** : Not available. **Reproductive toxicity Product/ingredient name** Result Propiconazole Mouse - Unreported Maternal toxicity: Positive Developmental: Positive 3-iodo-2-propynyl-butyl carbamate Rabbit - Female - Oral 50 mg/kg [7 days per week] [13 days] Maternal toxicity: Positive **Developmental**: Negative Rabbit - Female - Oral 20 mg/kg [7 days per week] [13 days] Maternal toxicity: Negative **Developmental:** Negative **Conclusion/Summary [Product]** : May damage the unborn child. Specific target organ toxicity (single exposure)

Product/ingredient name	Result
Bronopol	STOT SE 3, H335 (Respiratory tract irritation)

Specific target organ toxicity (repeated exposure) Product/ingredient name

3-iodo-2-propynyl-butyl carbamate

Result STOT RE 1, H372 (larynx)

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SECTION vicological information

Aspiration hazard	
Not available.	
Information on likely routes	of exposure
Not available.	
Potential acute health effect	ts
Eye contact	 No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
-	ysical, chemical and toxicological characteristics
Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Delayed and immediate effe	cts 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	ects
Not available.	
Conclusion/Summary [Pro	oduct] : Not available.
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: May damage the unborn child.
11.2 Information on other haz	zards
11.2.1 Endocrine disrupting	properties
Not available	

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.

Date of previous issue : 22/04/2025

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name

Propiconazole

Tebuconazol

3-iodo-2-propynyl-butyl carbamate

Result

LC50

Fish - *Oncorhynchus mykiss* 4.3 mg/l [96 hours]

EC50

Daphnia - *Daphnia magna* 10.2 mg/l [48 hours]

Acute - LC50 - Fresh water

EU Fish - Trout - *Oncorhynchus mykiss* 0.067 mg/l [96 hours]

Acute - NOEC - Fresh water EU Fish - Trout - Oncorhynchus mykiss

0.049 mg/l [96 hours]

Acute - EC50 - Fresh water EU Daphnia - Daphnia - Daphnia magna

0.16 mg/l [48 hours]

Chronic - NOEC - Fresh water EU

Daphnia - Daphnia - *Daphnia Magna* 0.05 mg/l [21 days]

Acute - EC50 - Fresh water

EU Algae - Algae - *Scenedemus subspicatus* 0.022 mg/l [72 hours]

Chronic - NOEC - Fresh water

US EPA Daphnia - Water flea - *Daphnia magna* 0.12 ppm [21 days] <u>Effect</u>: Growth

Chronic - NOEC

US EPA Fish - Rainbow trout,donaldson trout - *Oncorhynchus mykiss* 0.012 ppm [83 days] <u>Effect</u>: Growth

Acute - EC50 - Fresh water

US EPA Algae - Green algae - *Scenedesmus subspicatus* 1.45 ppm [4 days] <u>Effect</u>: Population

Acute - LC50 - Fresh water

Fish - common carp - *Cyprinus carpio* - Fingerling <u>Age</u>: 90 days; <u>Weight</u>: 2.1 g 2.37 mg/l [96 hours] <u>Effect</u>: Mortality

Chronic - IC10 - Fresh water

Algae - Green algae - *Pseudokirchneriella subcapitata* 1200 μg/l [72 hours] <u>Effect</u>: Population

: 22/04/2025 Date of previous issue

SECTION 12: Ecological information

Bronopol

Acute - LC50 - Fresh water

Daphnia - Water flea - Daphnia magna - Neonate Age: 26 hours 750 µg/l [48 hours] Effect: Mortality

Acute - EC50

Daphnia 1.4 mg/l [48 hours]

Acute - LC50 Fish

41.2 mg/l [96 hours]

Chronic - NOEC

US EPA Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss 1.94 ppm [49 days] Effect: Growth

Acute - EC50 - Fresh water

US EPA Algae - Green algae - Scenedesmus subspicatus 0.02 ppm [96 hours]

Acute - LC50 - Fresh water

US EPA Fish - Bluegill - Lepomis macrochirus Weight: 0.34 g 11.17 ppm [96 hours] Effect: Mortality

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

12.2 Persistence and degradability

Not available.

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
3-iodo-2-propynyl-butyl carbamate	-	-	Not readily
Bronopol	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Dipropyleneglycolmethylether	0.004	-	Low
Alcohols, C16-18 and	4.2	-	High
C18-unsatd., ethoxylated (8			
EO)			
Propiconazole	3.72	-	Low
3-iodo-2-propynyl-butyl	>1	-	Low
carbamate			
Tebuconazol	3.7	-	Low
Bronopol	0.18	-	Low

12.4 Mobility in soil

Soil/water partition coefficient

SECTION 12: Ecological information

Product/ingredient name	logKoc	Кос			
Propiconazole 3-iodo-2-propynyl-butyl carbamate Tebuconazol Bronopol	3.39 1.13 3 1.02	2451.91 13.4558 994.153 10.3771			

Results of PMT and vPvM assessment

Product/ingredient name	PMT	Р	Μ	т	vPvM	vP	vM
Dipropyleneglycolmethylether	No	No	No	No	No	No	No
Alcohols, C16-18 and	No	No	No	No	No	No	No
C18-unsatd., ethoxylated (8 EO)							
Propiconazole	No	No	No	No	No	No	No
3-iodo-2-propynyl-butyl carbamate	No	No	No	No	No	No	No
Tebuconazol	No	No	No	No	No	No	No
Bronopol	No	No	No	No	No	No	No
Mobility	: Not av	ailable.			I		

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	
Alcohols, C16-18 and	No	No	No	No	No	No	No	
C18-unsatd., ethoxylated (8								
EO)								
Propiconazole	No	No	No	No	No	No	No	
3-iodo-2-propynyl-butyl carbamate	No	No	No	No	No	No	No	
Tebuconazol	No	No	No	No	No	No	No	
Bronopol	No	No	No	No	No	No	No	

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

Product/ingredient name	PBT	Р	В	т	vPvB	vP	vB
Dipropyleneglycolmethylether	No	No	No	No	No	No	No
Alcohols, C16-18 and	No	No	No	No	No	No	No
C18-unsatd., ethoxylated (8 EO)							
Propiconazole	No	No	No	No	No	No	No
3-iodo-2-propynyl-butyl carbamate	No	No	No	No	No	No	No
Tebuconazol	No	No	No	No	No	No	No
Bronopol	No	No	No	No	No	No	No

Conclusion/Summary Regulation (EC) No. 1272/2008 : The product does not meet the criteria to be considered as a PBT or vPvB.

[CLP]

12.6 Endocrine disrupting properties

Not available.

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Conclusion/Summary [Product]
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: 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.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

European waste catalogue (EWC)

Waste code	Waste designation	
03 02 02*	organochlorinated wood preservatives	
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	UN3082	UN3082	UN3082	UN3082	
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tebuconazole)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tebuconazole)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tebuconazole)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tebuconazole)	
14.3 Transport hazard class(es)	9	9	9	9	
14.4 Packing group	111	111	111	111	
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes.	

Additional information

ADR/RID	: This product is not regulated as a dangerous good when transported in sizes of ≤ 5 L
	or \leq 5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. <u>Tunnel code</u> (-)
ADN	: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
IMDG	: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
ΙΑΤΑ	 This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

SECTION 14: Transport information

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 user 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

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]
TEKNOL AQUA 1412-01	≥90	3 30
Propiconazole	<1	30

Labelling	:	Restricted to	professional	users.
Other EU regulations				
Industrial emissions (integrated pollution prevention and control) - Air	:	Not listed		
Industrial emissions (integrated pollution prevention and control) - Water	-	Not listed		
Explosive precursors	:	Not applicab	e.	
Ozone depleting substance	es	<u>(EU 2024/590</u>	ח	
Not listed.				

Prior Informed Consent (PIC) (649/2012/EU)

Annex	Ingredient name	Status
Annex I - Part 1	propiconazole	Listed

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category			
E2			
National regulations			
Biocidal products regulation		l product as defined in EU Regulation to certain requirements or restriction	
nternational regulations			
international regulations			
	ntion List Schedules I, II & III	Chemicals	

Date of previous issue : No previous validation

SECTION 15: Regulatory information

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical safety	1	This product contains substances for which Chemical Safety Assessments are still
assessment		required.

SECTION 16: Other information

\checkmark	Indicates information that has changed from previously issued version.	
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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
	Calculation method Calculation method

Full text of abbreviated H statements

H302	Harmful if swallowed.			
H312	Harmful in contact with skin.			
H315	Causes skin irritation.			
H317	May cause an allergic skin reaction.			
H318	Causes serious eye damage.			
H331	Toxic if inhaled.			
H335	May cause respiratory irritation.			
H360D	May damage the unborn child.			
H361d	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.			
Full text of classifications ICLP/GHS1				

ull text of classifications [CLP/GHS]

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
Repr. 1B	REPRODUCTIVE TOXICITY - Category 1B
Repr. 2	REPRODUCTIVE TOXICITY - Category 2

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TEKNOL AQUA 1412-01 - All vari	ants			Label No	26767	7

SECTION 16: Other information						
Skin Irrit. 2 Skin Sens. 1 STOT RE 1	SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 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 revision	: 22/04/2025					
Date of previous issue	e : No previous validation					
Version	: 1					
	TEKNOL AQUA 1412-01 All variants					
Notion to used as						

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 : 22/0 TEKNOL AQUA 1412-01 - All variants

: 22/04/2025 Date of previous issue