

# SAFETY DATA SHEET

according to regulation of European parliament and Council (ES) number 1907/2006  
according Committee regulation (EU) number 878/2020



Date of Issue:	10. 05. 2024	Version number:	1	No. of pages:	11
Revision date:		Replaces version:	-	Date of Issue:	04. 04. 2024
Product name:	<b>FORTEKRYL NAPOUŠTĚDLO NA DŘEVO</b>				

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

1.1	Product identifier:	<b>FORTEKRYL NAPOUŠTĚDLO NA DŘEVO</b>
	The product is not a nanoform, nor does it contain any nanoforms.	
	UFI code:	<b>1WG5-QTDH-Y614-D08S</b>
1.2	Relevant identified uses of the substance or mixture and uses advised against:	
1.2.1	Relevant identified use:	
	Life cycle phases:	PW (wide use by professionals - basic) C (consumer use)
	Usage Name:	SU0
	Other usage description:	Impregnating features esp. for wood and wood-based substrates with fungicidal and insecticidal protection, type 8.
	Market description:	PC8; PC9a; PC15
	Contributing Activity Name:	spraying techniques in industrial factories roller or brush application non-industrial spraying techniques treatment of articles by dipping and pouring
	Contributing activities descriptor:	PROC7 PROC10 PROC11 PROC13
	More information:	technical function of the product in this use: Impregnating features esp. for wood and wood-based substrates with fungicidal and insecticidal protection, type 8. quantity to use: 0 - 10 t / yr Regulatory status by use: No a limited number of devices for this use: No the subsequent period of use relevant to this use: 24 months an overview of environmental release categories for each life cycle stage: ERC2; ERC5; ERC8c; ERC8f; ERC10a; ERC11a; ERC12a supplied as a mixture
1.2.2	Uses advised against:	all other uses
1.3	Details of the supplier of the safety data sheet:	
	Producer and supplier:	<b>AUSTIS a. s.</b>
	Address:	<b>K Austisu 680, 154 00 PRAHA 5 - Slivenec</b>
	Telephone number:	<b>+420 251 099 111</b>
	Fax:	<b>+420 251 099 112</b>
	e-mail:	<a href="mailto:austis@austis.cz">austis@austis.cz</a>
1.4	Emergency telephone number:	+420 251 099 247 +420 725 491 378
	Centre of the Toxicological information Na Bojišti 1, 120 00 Prague 2, CZ	<b>Tel.: +420 224 919 293</b>

## 2. Section 2: Hazard identification

2.1	Classification of the substance or mixture	
	Classification under Regulation 1272/2008/EU	Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

2.2 Label elements  
 Symbols:



Signal word:  
 Biocidal active substance:

warning  
 3-iodo-2-propynyl butylcarbamate 9 g/1 kg of product  
 tebuconazol (ISO)  
 permethrin (ISO) 2,5 g/1 kg of product  
 N-Didecyl-N-dipoly-ethoxyammonium borate/Didecylpoly-oxethylammonium borate (Polymeric betaine) 1 g/1 kg of product  
 0,625 g/1 kg of product

**Read attached instructions before use. Use biocides safely. Always read the label and product information before use.**

Hazard Statement:

H319: Causes serious eye irritation.  
 H400: Very toxic to aquatic life.  
 H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statement:

P102: Keep out of reach of children.  
 P273: Avoid release into the environment.  
 P280: Wear protective gloves/protective clothing/eye protection/ face protection.  
 P302+P352: IF ON SKIN: Wash with plenty of water and soap.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P391: Collect spillage.  
 P501: Dispose of contents/container in accordance with relevant national legislation.

2.3 Other hazards:

The mixture does not meet criteria to be classified as PBT or vPvB substances. The mixture is not endocrine disruptor, nor does it contain any.

Other risks:

EUH208: It contains a 3-iodo-2-propynyl butylcarbamate (ES: 259-627-5), 1,2-benzisothiazol-3(2H)-one (ES: 220-120-9) and permethrin (ISO) (ES: 258-067-9). May cause an allergic reaction.  
 EUH210: A safety data sheet is available on request.

**3. Section 3: Composition / information on ingredients**

A mixture of an aqueous emulsion of alkyd resins, biocidally active substances and additives

3.2 Mixtures

Chemical name:	(2-methoxymethyl ethoxy)propanol	3-iodo-2-propynyl butylcarbamate
Content [%]:	≤ 5	≤ 0,9
Index number:	Not Assigned	616-212-00-7
CAS:	34590-94-8	55406-53-6
EC number (EINECS):	252-104-2	259-627-5
REACH Registration number:	01-2119450011-60-00XX	01-2120762115-60-0XXX
Classification according to Directive 1272/2008/EU:	Not Assigned	Acute Tox. 3; H331 Acute Tox. 4; H302 STOT RE 1; H372 (hrtan) Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
Specific concentration limits, M-factors:	Not Assigned	M=10 (acute) M=1 (chronic)
Chemical name:	2-(2-butoxyethoxy)ethanol	Tebuconazole (ISO)

Content [%]:	< 0,28	≤ 0,25
Index number:	603-096-00-8	603-197-00-7
CAS:	112-34-5	107534-96-3
EC number (EINECS):	203-961-6	403-640-2
REACH Registration number:	01-2119475104-44-0XXX	01-0000015329-67-0XXX
Classification according to Directive 1272/2008/EU:	Eye Irrit. 2; H319	Acute Tox. 4; H302 Repr. 2; H361d Aquatic Acute 1; H400 Aquatic Chronic 1; H410
Specific concentration limits, M-factors:	Not Assigned	M=1 (acute) M=10 (chronic)
Chemical name:	<b>2-ethylhexanoic acid, zirconium salt</b>	<b>Fatty alcohol polyglycol ether 6-15 EO</b>
Content [%]:	< 0,25	< 0,25
Index number:	Not Assigned	Not Assigned
CAS:	22464-99-9	106232-83-1
EC number (EINECS):	245-018-1	500-294-5
REACH Registration number:	01-2119979088-21-00XX	Not Assigned
Classification according to Directive 1272/2008/EU:	Repr. 2; H361d	Acute Tox. 4 (*); H302 Eye Dam. 1; H318 Aquatic Acute 1; H400
Specific concentration limits, M-factors:	Not Assigned	Not Assigned
Chemical name:	<b>permethrin (ISO)</b>	<b>N-Didecyl-N-dipolyethoxyammonium borate/Didecylpolyoxethylammonium borate (Polymeric betaine)</b>
Content [%]:	≤ 0,1	≤ 0,0625
Index number:	613-058-00-2	Not Assigned
CAS:	52645-53-1	214710-34-6
EC number (EINECS):	258-067-9	695-923-4
REACH Registration number:	Not Assigned	Not Assigned
Classification according to Directive 1272/2008/EU:	Acute Tox. 4 (*); H332 Acute Tox. 4 (*); H302 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	Acute Tox. 4 (*); H302 Skin Corr. 1B; H314 Aquatic Acute 1; H400 Aquatic Chronic 3; H412
Specific concentration limits, M-factors:	M = 1000	Not Assigned
Chemical name:	<b>1,2-benzisothiazol-3(2H)-one</b>	
Content [%]:	≤ 0,025	
Index number:	613-088-00-6	
CAS:	2634-33-5	
EC number (EINECS):	220-120-9	
REACH Registration number:	01-2120761540-60-0XXX	
Classification according to Directive 1272/2008/EU:	Acute Tox. 4 (*); H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400	
Specific concentration limits, M-factors:	C ≥ 0,05 %: Skin Sens. 1; H317 M=10 (acute)	
Full text of H - phrases in Section 16		

#### 4. Section 4: First aid measures

##### 4.1 Description of first aid measures

When providing first aid it is necessary to ensure safety of both victim and person rescuing. It is necessary to avoid chaotic behavior. Victim must be kept in mental and physical rest. Victim must be kept warm and must not get chilled. Take original container with label or safety data sheet with information about substance or mixture with you in case of medical examination.

	<p>Inhalation: Break exposure, move to fresh air protecting the victim from cold. Provide medical treatment especially if coughing, shortness of breath or other symptoms persist.</p> <p>When on skin: Put away contaminated clothes and shoes, wash the contaminated spot with plenty of tepid water; if the skin is not irritated, soap can be used; seek doctor's advice, especially if the skin stays irritated.</p> <p>Eye Contact: Rinse eyes with plenty of water (10 to 15 min). Keep eyes open (even by force if necessary). If the victim is wearing contact lenses remove them immediately. Seek medical attention.</p> <p>Ingestion: Do not induce vomiting! Drink at least 0.5 liters of water with 5 to 10 tablets of crushed charcoal. In case of nausea contact the Toxicology Information Centre for need of medical treatment with information about composition of the mixture from the original container or SDS.</p>
4.2	<p>Most important symptoms and effects, both acute and delayed</p> <p>The product may have adverse effects through inhalation and if swallowed. It can irritate skin, mucous membranes and eyes.</p>
4.3	<p>Indication of any immediate medical attention and special treatment needed: <span style="float: right;">Symptomatic treatment</span></p>
<b>5.</b>	<b>Section 5: Fire-fighting measures</b>
5.1	<p>Extinguishing media</p> <p>Suitable extinguishing media: The product is not inflammable. Water spray (water mist), foam, carbon dioxide, dry powder.</p> <p>Unsuitable extinguishing media: The strong water current. It can be spread fire.</p>
5.2	Specific danger linked to the substance or mixture: Burning may produce carbon oxides and NOx.
5.3	Advice for firefighters: wear a breathing apparatus and protective clothing.
<b>6.</b>	<b>Section 6: Accidental release measures</b>
6.1	Personal precautions, protective equipment and emergency procedures: Appropriate protective gloves, goggles, appropriate clothing, or respirator.
6.1.1	For workers except for those intervening in emergency cases - instructions in case of accidental spill and leak of substance or mixture: <ul style="list-style-type: none"> <li>a) use of appropriate protection (including personal protective equipment according to part 8 BL), in order to avoid any skin, eyes or personal</li> <li>b) removing possible sources of ignition, providing proper ventilation, control of dust - not relevant</li> <li>c) emergency measures, for example necessary evacuation from dangerous area or consultation with an expert - not relevant</li> </ul>
6.1.2	For workers intervening in emergency cases - instructions for appropriate materials of personal protective suits (see part 8 BL)
6.2	Environmental precautions: Prevent environmental pollution - leakage into drains, surface water, groundwater or soil.
6.3	Methods and material for containment and cleaning up: Anchor suitable absorbent, transfer to the disposal of the authorized person.
6.3.1	Instructions for leak limitation of spilled substance or mixture <ul style="list-style-type: none"> <li>a) enclose the spilled mixture, cover the canalization;</li> <li>b) seal the damaged package</li> </ul>
6.3.2	Instructions for removal of spilled substance or mixture Absorb with appropriate agent, hand over to authorized person for disposal.
6.4	Reference to other sections: See also section 7., 8 and 13.
<b>7.</b>	<b>Section 7: Handling and storage</b>
7.1	Measures for safe manipulation:
7.1.1	<p>Recommendations:</p> <ul style="list-style-type: none"> <li>a) Workers handling the product have to get familiar with health and safety rules for work and have to obey these rules. Secure escape routs (enclosing of leaked mixture, sealing of damaged packages and so on), for fire prevention (remove ignition sources, non-sparkling tools and so on) and limit the production of aerosol and dust.</li> <li>b) Obey measures for prevention of manipulation with incompatible substances or mixtures (see part 10) in common areas.</li> <li>c) Store in original closed packages in temperature from +5 to +25 °C, do not expose to temperature under 0 °C (not even in short term). Do not expose to direct sunlight or other heat sources.</li> <li>d) Prevent the contamination of environment, i.e. leak into canalization, surface or underground water and soil.</li> </ul>
7.1.2	Instructions for general hygiene of work: <ul style="list-style-type: none"> <li>a) Do not eat, drink or smoke on work areas.</li> <li>b) After working with product wash your hands with soap and water, eventually use regeneration hand cream.</li> <li>c) Before entering dining areas, remove contaminated clothing and protective equipment.</li> </ul>
7.2	Conditions for safe storage of substances and mixtures including incompatible substances and mixtures: Store in dry and well-ventilated storages in original closed packages in temperatures from +5 to +25 °C, do not expose to temperature under 0 °C (not even in short term). Do not expose to direct sunlight or other heat sources. Prevent any contact with oxidizing substances, strong acids and bases. Do not store with food, drinks and feed. The product is not a flammable liquid according to ČSN 65 0201.
7.3	Specific end use: see part 1.2; coating procedure and recommendations are listed in technical list of the product, or in other product documentation.

**8. Section 8: Exposure controls / personal protection**

8.1 Control parameters:

Exposure limits EH40/2005 (WELs):

Chemical name:

**(2-methoxymethyl  
ethoxy)propanol**

**2-(2-butoxyethoxy) ethanol**

CAS:

34590-94-8

112-34-5

Long-term exposure limit [mg/m<sup>3</sup>] / ppm (TWA/8 h)

308 / 50

67,5 / 10

Short-term exposure limit [mg/m<sup>3</sup>] / ppm (15 minut)

- / -

101,2 / 15

Can be absorbed through the skin. Not Assigned  
The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.

**(2-Methoxymethylethoxy)propanol (ES: 252-104-2):**

DNEL (Workers, Hazard via inhalation route, Systemic effects, Long term exposure)	308 mg/m <sup>3</sup>
DNEL (Workers, Hazard via dermal route, Systemic effects, Long term exposure)	283 mg/kg bw/day
NOAEL (Workers, Hazard via dermal route, Systemic effects, Long term exposure)	2850 mg/kg bw/day
DNEL (General Population, Hazard via inhalation route, Systemic effects, Long term exposure)	37,2 mg/m <sup>3</sup>
DNEL (General Population, Hazard via dermal route, Systemic effects, Long term exposure)	121 mg/kg bw/day
NOAEL (General Population, Hazard via dermal route, Systemic effects, Long term exposure)	2035 mg/kg bw/day
DNEL (General Population, Hazard via oral route, Systemic effects, Long term exposure)	36 mg/m <sup>3</sup> bw/day
NOAEL (General Population, Hazard via oral route, Systemic effects, Long term exposure)	1000 mg/kg bw/day
PNEC aqua (freshwater)	19 mg/L
PNEC aqua (marine water)	1,9 mg/L
PNEC STP	4168 mg/L
PNEC sediment (freshwater)	70,2 mg/kg sediment dw
PNEC sediment (marine water)	7,02 mg/kg sediment dw
PNEC soil	2,74 mg/kg soil dw

**2-(2-butoxyethoxy)ethanol (ES: 203-961-6)**

DNEL (Workers, Hazard via inhalation route, Systemic effects, Long term exposure)	67,5 mg/m <sup>3</sup>
DNEL (Workers, Hazard via inhalation route, Systemic effects, Acute/short term exposure)	101,2 mg/m <sup>3</sup>
DNEL (Workers, Hazard via dermal route, Systemic effects, Long term exposure)	83 mg/kg bw/day
NOAEL (Workers, Hazard via dermal route, Systemic effects, Long term exposure)	2000 mg/kg bw/day
DNEL (General Population, Hazard via inhalation route, Systemic effects, Long term exposure)	40,5 mg/m <sup>3</sup>
DNEL (General Population, Hazard via inhalation route, Systemic effects, Acute/short term exposure)	60,7 mg/m <sup>3</sup>
DNEL (General Population, Hazard via dermal route, Systemic effects, Long term exposure)	50 mg/kg bw/day
NOAEL (General Population, Hazard via dermal route, Systemic effects, Long term exposure)	2000 mg/kg bw/day
DNEL (General Population, Hazard via oral route, Systemic effects, Long term exposure)	5 mg/kg bw/day
NOAEL (General Population, Hazard via oral route, Systemic effects, Long term exposure)	200 mg/kg bw/day
PNEC aqua (freshwater)	1,1 mg/L
PNEC aqua (marine water)	0,11 mg/L
PNEC STP	200 mg/L
PNEC sediment (freshwater)	4,4 mg/kg sediment dw

PNEC sediment (marine water)	0,44 mg/kg sediment dw
PNEC soil	0,32 mg/kg soil dw
PNEC oral (Hazard for predators)	56 mg/kg food
<b>2-ethylhexanoic acid, zirconium salt (ES: 245-018-1):</b>	
DNEL (Workers, Hazard via inhalation route, Systemic effects, Long term exposure)	32,97 mg/m <sup>3</sup>
NOAEC (Workers, Hazard via inhalation route, Systemic effects, Long term exposure)	126,95 mg/m <sup>3</sup>
DNEL (Workers, Hazard via dermal route, Systemic effects, Long term exposure)	6,49 mg/kg bw/day
NOAEL (Workers, Hazard via dermal route, Systemic effects, Long term exposure)	100 mg/kg bw/day
DNEL (General Population, Hazard via inhalation route, Systemic effects, Long term exposure)	8,13 mg/m <sup>3</sup>
NOAEC (General Population, Hazard via inhalation route, Systemic effects, Long term exposure)	62,61 mg/m <sup>3</sup>
DNEL (General Population, Hazard via dermal route, Systemic effects, Long term exposure)	3,25 mg/kg bw/day
NOAEL (General Population, Hazard via dermal route, Systemic effects, Long term exposure)	100 mg/kg bw/day
DNEL (General Population, Hazard via oral route, Systemic effects, Long term exposure)	4,51 mg/m <sup>3</sup> bw/day
NOAEL (General Population, Hazard via oral route, Systemic effects, Long term exposure)	138,89 mg/kg bw/day
PNEC aqua (freshwater)	0,36 mg/L
PNEC aqua (marine water)	0,036 mg/L
PNEC STP	71,7 mg/L
PNEC sediment (freshwater)	6,37 mg/kg sediment dw
PNEC sediment (marine water)	0,637 mg/kg sediment dw
PNEC soil	1,06 mg/kg soil dw
<b>3-iodo-2-propynyl butylcarbamate (ES: 259-627-5):</b>	
DNEL (Workers, Hazard via inhalation route, Systemic effects, Long term exposure)	0,023 mg/m <sup>3</sup>
NOAEC (Workers, Hazard via inhalation route, Systemic effects, Long term exposure)	1,16 mg/m <sup>3</sup>
DNEL (Workers, Hazard via inhalation route, Systemic effects, Acute/short term exposure)	0,07 mg/m <sup>3</sup>
DNEL (Workers, Hazard via inhalation route, Local effects, Long term exposure)	1,16 mg/m <sup>3</sup>
NOAEC (Workers, Hazard via inhalation route, Local effects, Long term exposure)	1,16 mg/m <sup>3</sup>
DNEL (Workers, Hazard via dermal route, Systemic effects, Long term exposure)	2 mg/kg bw/day
NOAEL (Workers, Hazard via dermal route, Systemic effects, Long term exposure)	200 mg/kg bw/day
PNEC aqua (freshwater)	0,001 mg/L
PNEC aqua (marine water)	0 mg/L
PNEC STP	0,44 mg/L
PNEC sediment (freshwater)	0,017 mg/kg sediment dw
PNEC sediment (marine water)	0,002 mg/kg sediment dw
PNEC soil	0,005 mg/kg soil dw
<b>1,2-benzisothiazol-3(2H)-one (ES:220-120-9):</b>	
DNEL (Workers, Hazard via inhalation route, Systemic effects, Long term exposure)	6,81 mg/m <sup>3</sup>
NOAEL (Workers, Hazard via inhalation route, Systemic effects, Long term exposure)	69 mg/m <sup>3</sup>
DNEL (Workers, Hazard via dermal route, Systemic effects, Long term exposure)	0,966 mg/kg bw/day
NOAEL (Workers, Hazard via dermal route, Systemic effects, Long term exposure)	69 mg/kg bw/day

DNEL (General Population, Hazard via inhalation route, Systemic effects, Long term exposure)	1,2 mg/m <sup>3</sup>
NOAEL (General Population, Hazard via inhalation route, Systemic effects, Long term exposure)	69 mg/m <sup>3</sup>
NOAEC (General Population, Hazard via inhalation route, Systemic effects, Long term exposure)	60 mg/m <sup>3</sup>
DNEL (General Population, Hazard via dermal route, Systemic effects, Long term exposure)	0,345 mg/kg bw/day
NOAEL (General Population, Hazard via dermal route, Systemic effects, Long term exposure)	69 mg/kg bw/day
PNEC aqua (freshwater)	4,03 µg/L
PNEC aqua (marine water)	0,403 µg/L
PNEC STP	1,03 mg/L
PNEC sediment (freshwater)	49,9 µg/kg sediment dw
PNEC sediment (marine water)	4,99 µg/kg sediment dw
PNEC soil	3 mg/kg soil dw

8.2 Exposure controls

Ensure adequate ventilation. Ensure protective equipment is worn while working with the product. Contaminated work clothes can be reused after thorough cleaning. Wash your hands and face with soap and water after use. Do not eat, drink or smoke while working with the product.

8.2.1 Appropriate engineering controls: Observe the usual precautions to protect the health and well-ventilated.

8.2.2 Individual protection measures, such as personal protective equipment:

Occupational exposure is governed by Directive 89/686/EEC therefore any use of personal protective equipment must be in accordance with this Regulation.

a) Eyes and face protection: Suitable safety goggles (EN 166), face shield.

b) Skin protection: Common safety clothing with long sleeve and shoes; take off the contaminated clothing and wash your skin with soap and water.

b-1) Hands protection: suitable protective gloves (made from rubber - according to EN 374), wash your hands with soap and water after work, use repairing hand cream.

c) Airways protection: with proper area ventilation not required. When spraying, face half-shield is recommended for gas filtration (EN 405) or quarter-shield with gas filter (EN 140, EN 141).

d) Heat hazard: Special attention must be paid to construction of personal protective measures, when specifying protective measures for protection against materials, which are considered to be heat hazard. Not relevant for this product.

8.2.3 Environmental exposure controls: Avoid infiltration of surface and groundwater and soil.

**9. Section 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

a) State	low viscosity liquid
b) Color	white to yellowish liquid
c) Odour:	characteristic
Odor threshold:	Not specified
d) Melting/Freezing point (temperature range) (°C):	approximately 0
e) Boiling point or initial boiling point and boiling range (°C)	approximately 100
f) Combustibility:	non-flammable liquid
g) Explosion limits: upper limit (% volume):	Not specified
lower limit (% volume):	Not specified
h) Point of ignition:	Not specified
i) Temperature of self-ignition:	Not specified
j) Temperature of decomposition (°C):	Not specified
k) pH	7,5 - 9,5
l) Kinematic viscosity:	Not specified
m) Solubility (23 °C)	
- with water:	unlimited miscibility with water
- with fats:	Not specified
n) Partition coefficient n - octanol/water:	Not specified
o) Steam pressure (20 °C):	2,3 kPa
p) Density and/or relative density (20 °C):	approximately 1,0 g.cm <sup>-3</sup>
q) Relative viscosity of steam (at °C):	Not specified
r) Particles characteristics:	Not specified

9.2	Other information:		
9.2.1	Information about class of physical hazard:	is not relevant	
9.2.2	Other safety characteristics		
	Evaporation rate:	Not specified	
	Dynamic viscosity:	Not specified	
	Explosive properties:	Not specified	
	Oxidizing properties:	Not specified	
	VOC (g/L)	30	
	Time required for biocidal effect:	min. 8 hours after the last layer is applied	
<b>10.</b>	<b>Section 10: Stability and reactivity</b>		
	Product is stable under recommended storage and handling conditions.		
10.1	Reactivity: Product is not reactive under recommended storage and handling conditions.		
10.2	Chemical stability: Product is stable under recommended storage and handling conditions.		
10.3	Possibility of hazardous reactions: In case of contact with substances reacting dangerously with water.		
10.4	Conditions to avoid: Temperatures below 0 °C and above 100 °C cause degradation of the product. Temperatures above recommended storage temperature reduce life of the product.		
10.5	Incompatible materials: Substances reacting with water.		
10.6	Hazardous Decomposition Products: Carbon oxides and NOx may form during burning.		
<b>11.</b>	<b>Section 11: Toxicological information</b>		
11.1	Information about hazard classes according to (ES) č. 1272/2008		
	a) Acute toxicity:	for the mixture is not determined	
		the classification criteria are not met based on available information	
		<b>IPBC</b>	
		<b>Permethrin</b>	
	- LD <sub>50</sub> , oral, rat (mg.kg <sup>-1</sup> ):	300 - 500	> 2000
	- LD <sub>50</sub> , dermal, rat or rabbit (mg.kg <sup>-1</sup> ):	> 2000	> 2000
	- LC <sub>50</sub> , inhalation, rat, for aerosols or particles (mg.kg <sup>-1</sup> ):	Not Assigned	> 0,6 / 4 h
	- LC <sub>50</sub> , inhalation, rat, for gases and vapours (mg.kg <sup>-1</sup> ):		the classification criteria are not met based on available information
	b) corrosivity/skin irritation:		the classification criteria are not met based on available information
	c) serious eye damage / eyes irritation:		Causes serious eye irritation.
	d) sensitivity of airways / sensitivity of skin:		the classification criteria are not met based on available information
	e) germ cells mutagenicity:		the classification criteria are not met based on available information
	f) carcinogenicity:		the classification criteria are not met based on available information
	g) toxicity for reproduction:		the classification criteria are not met based on available information
	h) toxicity for specific organs - single exposure:		the classification criteria are not met based on available information
	i) toxicity for specific organs - multiple exposures:		the classification criteria are not met based on available information
	j) hazards while inhaled:		the classification criteria are not met based on available information
	Human experience:		No detrimental effects were found upon compliance with the prescribed safety measures.
	Tests on animals:		Were not performed
11.1.1	Information for each hazard class or breakdown:	see above	
11.1.2	Toxicological properties of mixture (2-Methoxymethylethoxy) propanol (ES: 252-104-2), 2- (2-butoxyethoxy) ethanol (ES: 203-961-6), 2-ethylhexanoic acid, zirconium salt (ES: 245-018-1) , 3-iodo-2-propynyl N-butyl carbamate (ES: 259-627-5) and 1,2-benzisothiazol-3 (2H) -one (ES: 220-120-9)	not available see part 8	
11.1.3	If enough information from substance/mixture trials exist, it might be necessary to sum up results of used studies, for example according to exposure run	not relevant	
11.1.4	If the classification criteria are not met for specific hazard class, information explaining the justification should be stated.	relevant concentration limits were not exceeded	
11.1.5	Information about likely exposure run	no effects on human health are known	
11.1.6	Symptoms corresponding to physical, chemical and toxicological features	no effects on human health are known	
11.1.7	Belated and immediate effects and chronic effects of short/long term exposure	no effects on human health are known	



11.1.8	Interactive effects	unknown
11.1.9	Lack of specific data	not relevant
11.1.10	Mixtures	see part 8
11.1.11	Mixtures information compared to substance information	
	1) Substances in the mixture can react with each other inside of a body and can cause different levels of absorption, metabolism and	
	2) It is necessary to consider, if concentration of each substance is sufficient to contribute to mixture's effects on health. For each substance	
	a) if the information are doubled, they are listed only once for a substance as a whole, for example when two different substances are causing vomiting and diarrhea;	Not relevant for this mixture.
	b) if it is not likely the effects will appear with current concentrations, for example when weak irritating substance is dissolved in non-irritating solution to a level under certain concentration;	Not relevant for this mixture.
	c) if the information about mutual effects of substances in the mixture are unavailable, no assumptions will be listed and instead effects on health of each substance will be listed.	see part 8
11.1.12	Additional data:	None
11.2	Other hazards information	
11.2.1	Features causing disruption of endocrinal system	Not relevant for this mixture.
11.2.2	Other information	None

## 12. Section 12: Ecological information

12.1	Toxicity Acute toxicity for water organisms:	Very toxic to aquatic life with long lasting effects. for the mixture is not determined	
		<b>IPBC</b>	<b>Permethrin</b>
	- LC <sub>50</sub> , 96 hours, fish (mg/kg):	0,43	0,0076
	- LC <sub>50</sub> , 48 hours, fish (mg/kg):	0,21	0,00017
	- IC <sub>50</sub> , 72 hours, algae (mg/kg):	0,026	0,5
12.2	Persistence and degradability:	Not set	
12.3	Bioaccumulative potential:	Not set	
12.4	Mobility in soil:	It was not determined, the blend is miscible with water.	
12.5	Results of PBT and vPvB	The mixture does not meet the criteria for classification as PBT or vPvB.	
12.6	Features causing disruption of endocrinal system	Unknown for this mixture	
12.7	Other adverse effects:	See Section 2	
	Additional data:	The product must not leak to surface and groundwater. Notify competent authorities immediately in case of accident.	





## 13. Section 13: Disposal considerations

13.1	Methods of waste management:
	(a) Appropriate methods of disposal of the substance or mixture and contaminated packaging: Risk of environmental contamination, follow the Waste Act (as amended) and the applicable Waste Disposal Regulations (as amended). Place the unused product and contaminated packaging in marked waste collection containers and hand it over for disposal to an authorised waste disposal person (specialised company) authorised to do so. Do not dispose of unused product down the drain. It must not be disposed of with municipal waste. Empty packaging may be used for energy recovery in a waste incinerator (except for metal) or disposed of in a landfill of the appropriate classification. Completely cleaned packaging may be handed over for recycling. Always comply with the relevant national legislation! Waste code according to the Commission Decision 2000/532/EC (waste catalog) - 08 01 11, 08 01 19 or 20 01 27.
	b) Physical / chemical properties that can affect means of waste handling: Liquid mixture is completely miscible with water.
	c) Avoidance of disposal through sewer: It is necessary to prevent leakage of both components and hardened mixture into drains.
	d) Special precautions for the recommended waste management: Avoid contact with skin and eyes.

## 14. Section 14: Transport information

14.1	UN number or ID number	UN 3082
	Required shipping label:	
	ADR/RID/ADN:	



IMDG:			Various; MARINE POLLUTANT EMS group: F-A,S-F
ICAO TI:			
14.2 Official (UN) shipping name Ground transport ADR/RID/ADN:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS 3-iodo-2-propinyl-N-butylcarbamate, tebuconazole and permethrin)		
Naval transport IMDG:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS 3-iodo-2-propinyl-N-butylcarbamate, tebuconazole and permethrin)		
Air transport ICAO TI:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS 3-iodo-2-propinyl-N-butylcarbamate, tebuconazole and permethrin)		
14.3 Transport hazard class(es): ADR/RID/ADN:	9		
IMDG:	9		
ICAO TI:	9		
14.4 Packing group: ADR/RID/ADN:	III		
IMDG:	III		
ICAO TI:	III		
14.5 Environmental hazards:	YES		
14.6 Special precautions for user:	See Section 8		
Special provisions (ADR):	274: The provisions of subsection 3.1.2.8 apply (ADR). Symbol (fish and tree)		
14.7 Naval mass-transport according to instrument IMO:	Not applicable		
Notes:	None		
Additional data:	None		
<b>15. Section 15: Regulatory information</b>			
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.	Regulation of the European Parliament and Council Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals establishing a European Chemicals Agency, as amended Regulation of the European Parliament and Council Regulation (EC) No 1272/2008 (CLP) as amended Commission directive (EU) no. 878/2020 Regulation (EU) No. 528/2012 of the European Parliament and of the Council concerning the making available on the market and use of biocidal products. Note: According to Article 69 letter (i) the following sentence must be stated: " <b>Read attached instructions before use.</b> " According to Article 72 Advertising number (1) the following sentence must be stated: " <b>Use biocides safely. Always read the label and product information before use.</b> " EH40/2005 Workplace exposure limits (second edition, published 2011). Containing the list of workplace exposure limits for use with the Control of Substances Hazardous to Health Regulations (as amended)		
15.2 Assessment chemical safety of mixture:	Were not performed		
<b>16. Section 16: Other informations</b>			
Information stated in this safety data sheet is based on the current knowledge of EU legislation. It is recommendation in terms of health and safety as well as recommendation related to ecological matters that are essential to safe usage of the product.			
a) New edition.			
b) key or legend for abbreviations and acronyms used in the safety data sheet:			
LD <sub>50</sub>	The lethal dose for 50 % mortality of the test population relative to a control sample.		
LC <sub>50</sub>	Lethal concentration for 50 % mortality of the test population relative to a control sample.		
EC <sub>50</sub>	Effective concentration for 50 % mortality of the test population relative to a control sample.		
EC <sub>10</sub>	Effective concentration for 10 % mortality of the test population relative to a control sample.		
IC <sub>50</sub>	Inhibitory concentration to reduce the growth or growth rate of 50% of the test population relative to a control sample.		
LL <sub>50</sub>	Lethal loading doses of test substance resulting in 50% mortality		
EL <sub>50</sub>	Effective loading doses of test substance resulting in 50% mortality		

PBT	Persistent, bioaccumulative and toxic substances.
vPvB	Very persistent and very bioaccumulative substances.
DNEL	Derived No Effect Level - derived concentration of the substance without adverse effects
DMEL	Derived Minimum Effect Level - derived minimum level at which the adverse effects
NOAEL	No Observed Adverse Effect Level - no negative effect was observed
PNEC	Predicted No Effect Concentration - an estimate of the concentration of the substance without adverse effects
NOELR	No Observed Effect Loading Rate - dosage rate without observed effect
NOEC	No Observed Effect Concentration - concentration without observed effect
NOEL	No Observed Effect Level - level without observed effect
LOEC	Lowest Observed Effect Concentration - lowest concentrations with observable effects
ADR	European Agreement concerning the international carriage of dangerous goods by road.
RID	Regulations concerning the international carriage of dangerous goods by rail.
IMDG	International maritime code of dangerous goods.
ICAO	The International Civil Aviation Organization.
IATA	International Air Transport Association.
GHS	Globally Harmonized System of Classification and Labelling of Chemical substances.

c) important references to literature and data sources

Initial data sources are safety data sheets of the inherent (components).

d) in case of mixture, statement about evaluation method used for classification according to article 9 of directive (ES) number 1272/2008

For evaluation purposes, principles of extrapolation were used. Calculation methods.

e) List of H-sentences, whose full form is not listed in other parts.

H302	Harmful if swallowed.
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.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure (larynx).
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Guidelines for training:

As required by national legislation.

Recommended restrictions on use (i. e. non-statutory recommendations by supplier):

Product should not be used for other purposes than specified (see section 1.2). Because specific conditions of use are beyond supplier's control it is responsibility of the user to adapt notifications to local law and regulations. Safety information describe the product with regard to safety and can not be considered technical information about the product.