

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**ADDINOL Penta-Cool WM 101**

Revision date: 07.06.2021

Product code: 770078

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

ADDINOL Penta-Cool WM 101

UFI: UNQS-K6XU-A200-DK4C

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Metal working fluids

**1.3. Details of the supplier of the safety data sheet****Manufacturer**

Company name: ADDINOL Lube Oil GmbH  
 Gebäude 4609  
 Street: Am Haupttor  
 Place: D-06237 Leuna  
 Telephone: +49 (0) 3461 845-0  
 e-mail: info@addinol.de  
 Contact person: Application Technology  
 Internet: www.addinol.de  
 Responsible Department: ADDINOL Application Technology  
 Telephone: +49 (0) 3461 845-555

**Supplier**

Company name: GEM OILS LIMITED  
 Place: IRL-H12 E4W2 Regaskin Co. Cavan  
 Telephone: +353 49 4378116  
 e-mail: sales@gemoils.ie  
 Contact person: GEM OILS LIMITED  
 e-mail: sales@gemoils.ie  
 Internet: https://gemoils.ie/  
 Telephone: +353 49 4378116

**1.4. Emergency telephone number:**

Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Respiratory or skin sensitisation: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

May cause an allergic skin reaction.

Harmful to aquatic life with long lasting effects.

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one

2-methylisothiazol-3(2H)-one

**Signal word:** Warning

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**Pictograms:****Hazard statements**

- H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P501 Dispose of contents/container to industrial incineration plant.

**Additional advice on labelling**

The product is classified and labelled according to EC directives or corresponding national laws.

**2.3. Other hazards**

- Prolonged/repetitive skin contact may cause skin defatting or dermatitis.  
Spilled product must not leak into the ground.  
Do not allow uncontrolled leakage of product into the environment.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

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#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
64742-53-6	Distillates (petroleum), hydrotreated light naphthenic			< 15 %
	265-156-6		01-2119480375-34	
	Asp. Tox. 1; H304			
10043-35-3	boric acid			<5,5 %
	233-139-2	005-007-00-2		
	Repr. 1B; H360FD			
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether			2.5 - < 5 %
	203-961-6	603-096-00-8		
	Eye Irrit. 2; H319			
3913-02-8	2-Butyl-1-Octanol			1 - < 2.5 %
	223-470-0		01-2119978234-31	
	Aquatic Acute 1, Aquatic Chronic 2; H400 H411			
55406-53-6	3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate			< 0.1 %
	259-627-5	616-212-00-7		
	Acute Tox. 3, Acute Tox. 4, Eye Dam. 1, Skin Sens. 1, STOT RE 1, Aquatic Acute 1, Aquatic Chronic 1; H331 H302 H318 H317 H372 H400 H410			
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one			< 0.1 %
	220-120-9	613-088-00-6		
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1; H302 H315 H318 H317 H400			
2682-20-4	2-methylisothiazol-3(2H)-one			< 0.1 %
	220-239-6	613-326-00-9		
	Acute Tox. 2, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H311 H301 H314 H318 H317 H400 H410 EUH071			

Full text of H and EUH statements: see section 16.

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#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
64742-53-6	265-156-6	Distillates (petroleum), hydrotreated light naphthenic	< 15 %
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg	
10043-35-3	233-139-2	boric acid	<5,5 %
		inhalation: LC50 = > 2,12 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 3450 mg/kg Repr. 1B; H360FD: >= 5,5 - 100	
112-34-5	203-961-6	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	2.5 - < 5 %
		dermal: LD50 = 2764 mg/kg; oral: LD50 = 2410 mg/kg	
3913-02-8	223-470-0	2-Butyl-1-Octanol	1 - < 2.5 %
		oral: LD50 = 26533 mg/kg	
55406-53-6	259-627-5	3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate	< 0.1 %
		inhalation: ATE = 3 mg/l (vapours); inhalation: LC50 = > 6,89 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 1795 mg/kg M akut; H400: M=10 M chron.; H410: M=1	
2634-33-5	220-120-9	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	< 0.1 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = 670 mg/kg Skin Sens. 1; H317: >= 0,05 - 100	
2682-20-4	220-239-6	2-methylisothiazol-3(2H)-one	< 0.1 %
		inhalation: ATE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: LD50 = 242 mg/kg; oral: LD50 = 120 mg/kg Skin Sens. 1A; H317: >= 0,0015 - 100 M akut; H400: M=10 M chron.; H410: M=1	

#### Further Information

DMSO-Extrakt < 3 %, IP 346.

Classification system: The classification corresponds to the current EC lists and is completed by information from specialist literature and company information.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

Self-protection of the first aider. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

##### After inhalation

Move victim to fresh air. Put victim at rest and keep warm. Seek medical attention if problems persist.

##### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing. In case of skin irritation, seek medical treatment.

##### After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

##### After ingestion

Do NOT induce vomiting.

Rinse mouth thoroughly with water. Call a physician immediately.

#### 4.2. Most important symptoms and effects, both acute and delayed

No information available.

#### 4.3. Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### **Suitable extinguishing media**

Foam. Extinguishing powder. Carbon dioxide (CO<sub>2</sub>). Atomized water. Sand.

##### **Unsuitable extinguishing media**

High power water jet.

#### 5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). carbon black.

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

#### **Additional information**

Co-ordinate fire-fighting measures to the fire surroundings. Use water spray/stream to protect personnel and to cool endangered containers. In case of fire and/or explosion do not breathe fumes. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### **General measures**

High slip hazard because of leaking or spilled product. Remove all sources of ignition. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Avoid contact with skin, eye and clothing.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Prevent spread over a wide area (e.g. by containment or oil barriers).

#### 6.3. Methods and material for containment and cleaning up

##### **Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated articles and floor according to the environmental legislation.

#### 6.4. Reference to other sections

Refer to the provisions listed in Sections 8, 12 and 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### **Advice on safe handling**

Work in well-ventilated zones or use proper respiratory protection. Avoid oil mist If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid contact with skin, eyes and clothes.

##### **Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking.

#### 7.2. Conditions for safe storage, including any incompatibilities

##### **Requirements for storage rooms and vessels**

Keep the packing dry and well sealed to prevent contamination and absorption of humidity. Keep container tightly closed in a cool place.

##### **Hints on joint storage**

Keep away from food, drink and animal feedingstuffs.

Keep away from: Oxidizing agents.

##### **Further information on storage conditions**

Protect against: UV-radiation/sunlight. frost. heat.

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Recommended storage temperature: 5 - 40°C

**7.3. Specific end use(s)**

Further information: see technical data sheet.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limits**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
112-34-5	2-(2-Butoxyethoxy)ethanol	10	67.5		TWA (8 h)	
		15	101.2		STEL (15 min)	
10043-35-3	Borate compounds inorganic: boric acid	-	2		TWA (8 h)	

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## DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
64742-53-6	Distillates (petroleum), hydrotreated light naphthenic			
Worker DNEL, long-term		inhalation	systemic	2,73 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	5,58 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	0,97 mg/kg bw/day
Consumer DNEL, long-term		inhalation	local	1,19 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	0,74 mg/kg bw/day
10043-35-3	boric acid			
Worker DNEL, long-term		inhalation	systemic	8,3 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	392 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	4,15 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	196 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,98 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	0,98 mg/kg bw/day
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether			
Worker DNEL, long-term		inhalation	local	67,5 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	local	101,2 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	6,25 mg/kg bw/day
3913-02-8	2-Butyl-1-Octanol			
Worker DNEL, long-term		inhalation	systemic	123,3 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	35 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	31,1 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	21 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	21 mg/kg bw/day
55406-53-6	3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate			
Worker DNEL, long-term		inhalation	systemic	0,023 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	systemic	0,07 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	1,16 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	local	1,16 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	2 mg/kg bw/day
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one			
Worker DNEL, long-term		inhalation	systemic	6,81 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	0,966 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	1,2 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	0,345 mg/kg bw/day
2682-20-4	2-methylisothiazol-3(2H)-one			
Worker DNEL, long-term		inhalation	local	0,021 mg/m <sup>3</sup>

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Worker DNEL, acute	inhalation	local	0,043 mg/m <sup>3</sup>
Consumer DNEL, long-term	inhalation	local	0,021 mg/m <sup>3</sup>
Consumer DNEL, acute	inhalation	local	0,043 mg/m <sup>3</sup>
Consumer DNEL, long-term	oral	systemic	0,027 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	0,053 mg/kg bw/day



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#### PNEC values

CAS No	Substance	Value
Environmental compartment		
64742-53-6	Distillates (petroleum), hydrotreated light naphthenic	
Secondary poisoning		9,33 mg/kg
10043-35-3	boric acid	
Freshwater		2,9 mg/l
Freshwater (intermittent releases)		13,7 mg/l
Marine water		2,9 mg/l
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		5,7 mg/kg
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	
Freshwater		1,1 mg/l
Freshwater (intermittent releases)		11 mg/l
Marine water		0,11 mg/l
Freshwater sediment		4,4 mg/kg
Marine sediment		0,44 mg/kg
Secondary poisoning		56 mg/kg
Soil		0,32 mg/kg
3913-02-8	2-Butyl-1-Octanol	
Freshwater		0 mg/l
Freshwater (intermittent releases)		0,014 mg/l
Marine water		0 mg/l
Micro-organisms in sewage treatment plants (STP)		10 mg/l
55406-53-6	3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate	
Freshwater		0,001 mg/l
Freshwater (intermittent releases)		0,001 mg/l
Marine water		0 mg/l
Freshwater sediment		0,017 mg/kg
Marine sediment		0,002 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,44 mg/l
Soil		0,005 mg/kg
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	
Freshwater		0,00403 mg/l
Freshwater (intermittent releases)		0,0011 mg/l
Marine water		0,000403 mg/l
Freshwater sediment		0,0499 mg/kg
Marine sediment		0,00499 mg/kg
Micro-organisms in sewage treatment plants (STP)		1,03 mg/l
Soil		3 mg/kg
2682-20-4	2-methylisothiazol-3(2H)-one	
Freshwater		0,00339 mg/l
Freshwater (intermittent releases)		0,00339 mg/l

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Marine water	0,00339 mg/l
Micro-organisms in sewage treatment plants (STP)	0,23 mg/l
Soil	0,047 mg/kg

#### Additional advice on limit values

source:

Recommended limit value for cooling lubricants (steam and aerosol)

MAK: 10 mg/m<sup>3</sup>

#### 8.2. Exposure controls



#### Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

#### Protective and hygiene measures

Wash hands before breaks and after work. Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use. Do not eat, drink, smoke or sneeze at the workplace.

#### Eye/face protection

Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): DIN EN 166

#### Hand protection

Tested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN): EN ISO 374

Duration of wearing with permanent contact: 480 min

Suitable material: NBR (Nitrile rubber).

Thickness of glove material: 0.7 mm.

Wearing time with occasional contact (splashes): 30 min

Suitable material: NBR (Nitrile rubber).

Thickness of glove material: 0.4 mm

Protect skin by using skin protective cream.

#### Skin protection

Wear suitable protective clothing. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

#### Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Cosaint riospráide le scagaire i gcoinne gás orgánach agus gaile cineál A - fiuchphointe > 65 ° C: A1: <1000 ppm; A2: <5000 ppm; A3: <10,000 ppm.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	yellow
Odour:	characteristic

pH-Value (at 20 °C):

#### Changes in the physical state

#### Test method

9,1 DIN 51369

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Melting point:	No data available
Boiling point or initial boiling point and boiling range:	> 100 °C
Pour point:	No data available
Flash point:	> 100 °C DIN EN ISO 2592

**Flammability**

Solid/liquid:	No data available
Gas:	No data available

**Explosive properties**

No data available

Lower explosion limits:	0,6 vol. %
Upper explosion limits:	6,5 vol. %
Auto-ignition temperature:	> 240 °C

**Self-ignition temperature**

Solid:	No data available
Gas:	No data available

Decomposition temperature: No data available

**Oxidizing properties**

No data available

Vapour pressure: (at 20 °C) not determined

Density (at 15 °C): 0,993 g/cm<sup>3</sup> DIN EN ISO 12185

Water solubility: highly soluble.

**Solubility in other solvents**

No data available

Partition coefficient n-octanol/water: No data available

Viscosity / kinematic: (at 20 °C) 105 mm<sup>2</sup>/s DIN EN ISO 3104

Relative vapour density: No data available

Evaporation rate: not determined

**9.2. Other information**

No data available

**SECTION 10: Stability and reactivity****10.1. Reactivity**

The product is stable under storage at normal ambient temperatures.

**10.2. Chemical stability**

The mixture is chemically stable under recommended conditions of storage, use and temperature.

**10.3. Possibility of hazardous reactions**

No known hazardous reactions.

**10.4. Conditions to avoid**

Refer to chapter 7 No further action is necessary.

Do not overheat to avoid decomposition by heat.

**10.5. Incompatible materials**

Reacts with : Oxidizing agents, strong.

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**10.6. Hazardous decomposition products**

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). carbon black.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

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

Mixture not tested.

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64742-53-6	Distillates (petroleum), hydrotreated light naphthenic				
	oral	LD50 > 5000 mg/kg	Rat	Study report (1982)	OECD Guideline 401
	dermal	LD50 > 5000 mg/kg	Rabbit	Study report (1982)	OECD Guideline 402
10043-35-3	boric acid				
	oral	LD50 3450 mg/kg	Rat	Toxicology and Applied Pharmacology 23:	Boric acid was administered orally by ga
	dermal	LD50 > 2000 mg/kg	Rabbit	Study report (1982)	other: FIFRA
	inhalation (4 h) aerosol	LC50 > 2,12 mg/l	Rat	Study report (1997)	OECD Guideline 403
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether				
	oral	LD50 2410 mg/kg	Mouse	Study report (1981)	OECD Guideline 401
	dermal	LD50 2764 mg/kg	Rabbit	Study report (1981)	OECD Guideline 402
3913-02-8	2-Butyl-1-Octanol				
	oral	LD50 26533 mg/kg	Rat	Study report (1986)	OECD Guideline 401
55406-53-6	3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate				
	oral	LD50 1795 mg/kg	Rat	Study report (1984)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rabbit	Study report (1991)	EPA OPP 81-2
	inhalation vapour	ATE 3 mg/l			
	inhalation (4 h) aerosol	LC50 > 6,89 mg/l	Rat	Study report (1985)	OECD Guideline 403
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one				
	oral	LD50 670 mg/kg	Rat	Study report (1988)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rat	Study report (1994)	OECD Guideline 402
2682-20-4	2-methylisothiazol-3(2H)-one				
	oral	LD50 120 mg/kg	Rat	Study report (2002)	EPA OPPTS 870.1100
	dermal	LD50 242 mg/kg	Rat	Study report (1999)	OECD Guideline 402
	inhalation vapour	ATE 0,5 mg/l			
	inhalation aerosol	ATE 0,05 mg/l			

#### Irritation and corrosivity

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

#### Sensitising effects

May cause an allergic skin reaction. (3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate; 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one; 2-methylisothiazol-3(2H)-one)

#### Carcinogenic/mutagenic/toxic effects for reproduction

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

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**STOT-single exposure**

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

**STOT-repeated exposure**

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

Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

**Aspiration hazard**

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

**11.2. Information on other hazards****Endocrine disrupting properties**

not applicable

**SECTION 12: Ecological information****12.1. Toxicity**

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
64742-53-6	Distillates (petroleum), hydrotreated light naphthenic					
	Acute fish toxicity	LL50 > 100 mg/l	96 h	Pimephales promelas	Study report (1995)	OECD Guideline 203
	Acute algae toxicity	ErC50 > 100 mg/l				
	Fish toxicity	NOEC >= 1000 mg/l	14 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)	The aquatic toxicity was estimated by a
10043-35-3	boric acid					
	Acute fish toxicity	LC50 79,7 mg/l	96 h	Pimephales promelas	Study report (2010)	other: ASTM E729-95 Standard Guide for C
	Acute algae toxicity	ErC50 66 mg/l	72 h	Phaeodactylum tricornutum	Study report (2011)	ISO 10253
	Acute crustacea toxicity	EC50 93 mg/l	48 h	Ceriodaphnia dubia	Study report (2010)	other: ASTM E729-95 Standard Guide for C
	Fish toxicity	NOEC 11,2 mg/l	32 d	Pimephales promelas	Study report (2010)	other: ASTM E1241-05 Standard Guide for
	Algae toxicity	NOEC 17,5 mg/l	3 d	Pseudokirchneriella subcapitata	Study report (2000)	OECD Guideline 201
	Crustacea toxicity	NOEC 33,1 mg/l	28 d	Americamysis bahia	Study report (2011)	EPA OPPTS 850.1350
	Acute bacteria toxicity	(> 175 mg/l)	3 h	Activated sludge	Study report (2000)	OECD Guideline 209
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether					
	Acute fish toxicity	LC50 1300 mg/l	96 h	Lepomis macrochirus	J Haz Mat, 1, p303-18 (1977)	OECD Guideline 203
	Acute algae toxicity	ErC50 > 100 mg/l	96 h	Desmodesmus subspicatus	Study report (1992)	OECD Guideline 201
	Acute crustacea toxicity	EC50 > 100 mg/l	48 h	Daphnia magna	Study report (1992)	EU Method C.2
3913-02-8	2-Butyl-1-Octanol					
	Acute fish toxicity	LC50 0,55 mg/l	96 h	Oncorhynchus mykiss	Study report (2012)	OECD Guideline 203
	Acute algae toxicity	ErC50 2,1 mg/l	72 h	Pseudokirchneriella subcapitata	Study report (2012)	OECD Guideline 201
	Acute crustacea toxicity	EC50 0,14 mg/l	48 h	Daphnia magna	Study report (2002)	OECD Guideline 202
	Crustacea toxicity	NOEC 0,014 mg/l	21 d	Daphnia magna	Study report (2005)	OECD Guideline 211
55406-53-6	3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate					
	Acute algae toxicity	ErC50 0,022 mg/l	72 h	Desmodesmus subspicatus	REACH Registration Dossier	OECD Guideline 201
	Fish toxicity	NOEC 0,0084 mg/l	35 d	Pimephales promelas	REACH Registration Dossier	EPA OPP 72-4

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	Crustacea toxicity	NOEC mg/l	0,0499	21 d	Daphnia magna	REACH Registration Dossier	EPA OPP 72-4
	Acute bacteria toxicity	(44 mg/l)		3 h	activated sludge, domestic	REACH Registration Dossier	EU Method C.11
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one						
	Acute fish toxicity	LC50 mg/l	ca. 16,7	96 h	Cyprinodon variegatus	REACH Registration Dossier	other:
	Acute algae toxicity	ErC50 mg/l	0,15	72 h	Pseudokirchneriella subcapitata	Study report (1994)	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	2,94	48 h	Daphnia magna	Study report (1995)	OECD Guideline 202
	Acute bacteria toxicity	(13 mg/l)		3 h	activated sludge of a predominantly domestic sewage	REACH Registration Dossier	OECD Guideline 209
2682-20-4	2-methylisothiazol-3(2H)-one						
	Acute fish toxicity	LC50 mg/l	4,77	96 h	Oncorhynchus mykiss	REACH Registration Dossier	EPA OPP 72-1
	Acute algae toxicity	ErC50 mg/l	0,069	96 h	Skeletonema costatum	Study report (2004)	EPA OPPTS 850.5400
	Acute crustacea toxicity	EC50 mg/l	0,934	48 h	Daphnia magna	REACH Registration Dossier	EPA OPP 72-2
	Fish toxicity	NOEC mg/l	4,93	98 d	Oncorhynchus mykiss	REACH Registration Dossier	EPA OPPTS 850.1400
	Crustacea toxicity	NOEC mg/l	0,044	21 d	Daphnia magna	REACH Registration Dossier	EPA OPPTS 850.1300
	Acute bacteria toxicity	(41 mg/l)		3 h	activated sludge of a predominantly domestic sewage	REACH Registration Dossier	OECD Guideline 209

#### **12.2. Persistence and degradability**

Not easily bio-degradable (according to OECD-criteria). Do not allow to enter into surface water or drains.

#### **12.3. Bioaccumulative potential**

##### **Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
10043-35-3	boric acid	-1,09
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	1
3913-02-8	2-Butyl-1-Octanol	5,5
55406-53-6	3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate	2,81
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	0,63
2682-20-4	2-methylisothiazol-3(2H)-one	-0,486



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**BCF**

CAS No	Chemical name	BCF	Species	Source
10043-35-3	boric acid	0,7 - 1,4	Crassostrea gigas	Water Research Vol.
3913-02-8	2-Butyl-1-Octanol	83,5		Calculation (2010)
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	ca. 6,62	Lepomis macrochirus	REACH Registration D
2682-20-4	2-methylisothiazol-3(2H)-one	5,75	Lepomis macrochirus	REACH Registration D

**12.4. Mobility in soil**

Is eliminable from water only with difficulty.

**12.5. Results of PBT and vPvB assessment**

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

**12.6. Endocrine disrupting properties**

not applicable

**12.7. Other adverse effects**

No data available

**Further information**

Do not allow uncontrolled leakage of product into the environment.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods****Disposal recommendations**

Must not be disposed of with domestic refuse. Do not allow to enter into surface water or drains.

**List of Wastes Code - residues/unused products**

120107 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; mineral-based machining oils free of halogens (except emulsions and solutions); hazardous waste

**Contaminated packaging**

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Dispose of waste according to applicable legislation. Packing which cannot be properly cleaned must be thrown away.

## SECTION 14: Transport information

**Land transport (ADR/RID)**

- 14.1. UN number:** -  
**14.2. UN proper shipping name:** -  
**14.3. Transport hazard class(es):** -  
**14.4. Packing group:** -

**Inland waterways transport (ADN)**

- 14.1. UN number:** -  
**14.2. UN proper shipping name:** -  
**14.3. Transport hazard class(es):** -  
**14.4. Packing group:** -

**Marine transport (IMDG)**

- 14.1. UN number:** -  
**14.2. UN proper shipping name:** -  
**14.3. Transport hazard class(es):** -  
**14.4. Packing group:** -

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#### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** -

**14.2. UN proper shipping name:** -

**14.3. Transport hazard class(es):** -

**14.4. Packing group:** -

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

#### 14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

#### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

#### Other applicable information

No dangerous good in sense of these transport regulations.

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### EU regulatory information

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):  
boric acid

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 28, Entry 30, Entry 55

##### National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D):

2 - obviously hazardous to water

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

#### Changes

This data sheet contains changes from the previous version in section(s): 2,3,4,7,8,9,11,12,15,16.

#### Abbreviations and acronyms

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

#### Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 3; H412	

#### Relevant H and EUH statements (number and full text)

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.

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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.
H360FD	May damage fertility. May damage 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.

**Further Information**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*