



TIMBASHIELD

MADE IN DERBYSHIRE

SAFETY DATA SHEET

Timbashield - Wood Preserver - Clear

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Version 1.0	Revision Date: 29.10.2021	SDS Number: 203000010292	Date of last issue: - Country / Language : GB / 6N
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : WOOD PRESERVER

Product code : 000000000062242897

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-
stance/Mixture : Biocidal product, Wood preservatives

1.3 Details of the supplier of the safety data sheet

Company : A-Chem Limited T/A Timbashield
Dunsford Road, Alfreton,
Derbyshire,
DE55 7RH

Responsible Department : +44 (0)1773 833881
info@timbashield.co.uk

1.4 Emergency telephone number

Emergency telephone number : +44 (0)1773 833881 (Mon-Thurs - 8am-5pm, Fri - 8am-4pm)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (GB CLP)

Short-term (acute) aquatic hazard, Category 1 H400: Very toxic to aquatic life.

Long-term (chronic) aquatic hazard, Category 1 H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (GB CLP)

Hazard pictograms :



Signal word : Warning

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Hazard statements : H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P273 Avoid release to the environment.

Response:
P391 Collect spillage.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Additional Labelling

EUH208 Contains 1,2-benzisothiazol-3(2H)-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), 3-iodo-2-propynyl butylcarbamate. May produce an allergic reaction.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
3-iodo-2-propynyl butylcarbamate	55406-53-6 259-627-5 616-212-00-7	Acute Tox. 4; H302 Acute Tox. 3; H331 Eye Dam. 1; H318 Skin Sens. 1; H317 STOT RE 1; H372 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1	>= 0.25 - < 1
2-ethylhexanoic acid, zirconium salt	22464-99-9 245-018-1	Repr. 2; H361d	>= 0.1 - < 1
tebuconazole (ISO)	107534-96-3 403-640-2 603-197-00-7	Acute Tox. 4; H302 Repr. 2; H361d Aquatic Acute 1;	>= 0.1 - < 0.25

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	01-0000015329-67-0000	H400 Aquatic Chronic 1; H410	
		M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 10	
permethrin (ISO)	52645-53-1 258-067-9 613-058-00-2	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	$\geq 0.025 - < 0.1$
		M-Factor (Acute aquatic toxicity): 1,0001,000 M-Factor (Chronic aquatic toxicity): 1,0001,000	
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	$\geq 0.0025 - < 0.025$
		M-Factor (Acute aquatic toxicity): 1	
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9 613-167-00-5	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 2; H310 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 0.0002
		M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100	
Substances with a workplace exposure limit :			
(2-methoxymethylethoxy)propanol	34590-94-8 252-104-2		$\geq 1 - < 10$

Specific Concentration limits (Regulation EC) No 1272/2008)

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Chemical name	CAS-No. EC-No.	Classification	Concentration (%)
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9	Skin Sens.1; H317 Skin Sens.1; H317	>= 0.05 %
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9	Skin Corr.1C; H314 Skin Irrit.2; H315 Eye Irrit.2; H319 Skin Sens.1A; H317 Eye Dam.1; H318	>= 0.6 % 0.06 - < 0.6 % 0.06 - < 0.6 % >= 0.0015 % >= 0.6 %

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.
- If inhaled : If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : Wash off with soap and plenty of water.
If symptoms persist, call a physician.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon dioxide (CO₂)
Carbon monoxide

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.
Dispose of rinse water in accordance with local and national regulations.

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Smoking, eating and drinking should be prohibited in the application area.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : General industrial hygiene practice.

Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Further information on storage stability : Stable under recommended storage conditions.

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
(2-methoxymethylethoxy)propanol	34590-94-8	TWA	50 ppm 308 mg/m ³	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	50 ppm 308 mg/m ³	GB EH40
	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
2-ethylhexanoic acid, zirconium salt	22464-99-9	TWA	5 mg/m ³ (Zirconium)	GB EH40
		STEL	10 mg/m ³ (Zirconium)	GB EH40

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8.2 Exposure controls

Engineering measures

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.

Personal protective equipment

Eye protection	:	Tightly fitting safety goggles
Hand protection		
Material	:	Polyvinyl chloride - PVC
Wearing time	:	< 60 min
Material	:	Nitrile rubber - NBR
Wearing time	:	< 60 min
Remarks	:	The suitability for a specific workplace should be discussed with the producers of the protective gloves. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations
Skin and body protection	:	Impervious clothing
		Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection	:	In the case of vapour formation use a respirator with an approved filter.
Filter type	:	Recommended Filter type: Combined inorganic and acidic gas/vapour, ammonia/amines and organic vapour type (ABEK)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	Liquid
Physical state	:	liquid
Colour	:	milky white
Odour	:	No data available
Odour Threshold	:	No data available
pH	:	No data available
Melting point/range	:	No data available

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Boiling point/boiling range	:	No data available
Flash point	:	> 100 °C Method: DIN EN ISO 2719/A, closed cup
Evaporation rate	:	No data available
Burning number	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative density	:	No data available
Density	:	1.007 g/cm ³ (20 °C)
Solubility(ies)		
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	> 600 °C Method: Regulation (EC) No. 440/2008, Annex, A.15
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	2 mPa.s (20 °C) Method: DIN 53019
Viscosity, kinematic	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
9.2 Other information		
Self-ignition	:	No data available

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SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : No specific data.

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified based on available information.

Product:

Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Components:

3-iodo-2-propynyl butylcarbamate:

Acute oral toxicity : LD50 (Rat): > 300 - 500 mg/kg
Method: OECD Test Guideline 423

Acute inhalation toxicity : LC50 (Rat, male and female): 0.67 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Remarks: Extrapolation according to Regulation (EC) No. 440/2008

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2-ethylhexanoic acid, zirconium salt:

- Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg
Method: OECD Test Guideline 423
GLP: yes
- Acute inhalation toxicity : LC0 (Rat, male and female): > 4.3 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 436
GLP: yes
Remarks: Highest producible concentration.
- Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Remarks: Extrapolation according to Regulation (EC) No. 440/2008

tebuconazole (ISO):

- Acute oral toxicity : LD50 (Rat, male): 4,000 mg/kg
LD50 (Rat, female): 1,700 mg/kg
- Acute inhalation toxicity : LC50 (Rat): > 5.093 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Highest producible concentration.
- Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

permethrin (ISO):

- Acute oral toxicity : LD50 (Rat): 1,479 mg/kg
- Acute inhalation toxicity : LC0 (Rat): 0.599 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Remarks: Highest producible concentration.
- Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

1,2-benzisothiazol-3(2H)-one:

- Acute oral toxicity : LD50 (Rat, male and female): 490 mg/kg
Method: OECD Test Guideline 401
- Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 402

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Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Dosage caused no mortality
Extrapolation according to Regulation (EC) No. 440/2008

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Acute inhalation toxicity : LC50 (Rat): 0.31 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

(2-methoxymethylethoxy)propanol:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401
GLP: no

Acute inhalation toxicity : LC50 (Rat, male and female): > 1.667 mg/l
Exposure time: 7 h
Test atmosphere: vapour
Method: OECD Test Guideline 403
GLP: no
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Dosage caused no mortality
Highest producible concentration.

Acute dermal toxicity : LD50 (Rabbit, male): 9,510 mg/kg
Method: OECD Test Guideline 402
GLP: no

Skin corrosion/irritation

Not classified based on available information.

Components:

3-iodo-2-propynyl butylcarbamate:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

2-ethylhexanoic acid, zirconium salt:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

tebuconazole (ISO):

Assessment : No skin irritation

permethrin (ISO):

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Species : Rabbit
Result : No skin irritation

1,2-benzisothiazol-3(2H)-one:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Assessment : Causes burns.

(2-methoxymethylethoxy)propanol:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : no

Serious eye damage/eye irritation

Not classified based on available information.

Components:

3-iodo-2-propynyl butylcarbamate:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Risk of serious damage to eyes.

2-ethylhexanoic acid, zirconium salt:

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation

tebuconazole (ISO):

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation

permethrin (ISO):

Species : Rabbit
Result : No eye irritation

1,2-benzisothiazol-3(2H)-one:

Species : Rabbit
Method : EPA OPP 81-4
Result : Risk of serious damage to eyes.

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reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Remarks : Risk of serious damage to eyes.

(2-methoxymethylethoxy)propanol:

Species : Rabbit
Method : Draize Test
Result : No eye irritation
GLP : no

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

3-iodo-2-propynyl butylcarbamate:

Exposure routes : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : May cause sensitisation by skin contact.

2-ethylhexanoic acid, zirconium salt:

Exposure routes : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Did not cause sensitisation on laboratory animals.
GLP : no

tebuconazole (ISO):

Exposure routes : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Does not cause skin sensitisation.

permethrin (ISO):

Exposure routes : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : May cause sensitisation by skin contact.

1,2-benzisothiazol-3(2H)-one:

Exposure routes : Skin contact
Species : Guinea pig

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Method : OECD Test Guideline 406
 Result : May cause sensitisation by skin contact.

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Test Type : Maximisation Test
 Exposure routes : Skin contact
 Species : Guinea pig
 Method : OECD Test Guideline 406
 Result : May cause sensitisation by skin contact.
 GLP : yes

Test Type : Local lymph node assay (LLNA)
 Exposure routes : Skin contact
 Species : Mouse
 Method : OECD Test Guideline 429
 Result : The product is a skin sensitiser, sub-category 1A.
 GLP : yes

(2-methoxymethylethoxy)propanol:

Exposure routes : Skin contact
 Species : Humans
 Result : Not a skin sensitizer.
 GLP : no

Remarks : Patch test on human volunteers did not demonstrate sensitisation properties.

Germ cell mutagenicity

Not classified based on available information.

Components:

3-iodo-2-propynyl butylcarbamate:

Genotoxicity in vitro : Test system: Bacteria
 Method: OECD Test Guideline 471
 Result: negative

Test system: Mammalian-Animal
 Method: OECD Test Guideline 476
 Result: negative

Test system: Mammalian-Animal
 Method: OECD Test Guideline 473
 Result: negative

2-ethylhexanoic acid, zirconium salt:

Genotoxicity in vitro : Test system: Mammalian-Animal

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Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 473
 Result: negative
 GLP: yes

Test system: Mammalian-Animal
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 476
 Result: negative
 GLP: yes

Test system: Bacteria
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 471
 Result: negative
 GLP: yes

Genotoxicity in vivo : Species: Mammalian-Animal
 Application Route: Oral
 Method: OECD Test Guideline 474
 Result: negative

tebuconazole (ISO):

Genotoxicity in vitro : Test system: Mammalian-Animal
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 482
 Result: negative

Test system: Mammalian-Animal
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 479
 Result: negative

Genotoxicity in vivo : Species: Mammalian-Animal
 Method: OECD Test Guideline 474
 Result: negative

Species: Mammalian-Animal
 Method: OECD Test Guideline 478
 Result: negative

permethrin (ISO):

Genotoxicity in vitro : Remarks: Not mutagenic in a standard battery of genetic toxicological tests.

1,2-benzisothiazol-3(2H)-one:

Genotoxicity in vitro : Test system: Bacteria
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 471
 Result: negative

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Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative

Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

Genotoxicity in vivo : Species: Rat (male)
Application Route: Oral
Method: OECD Test Guideline 486
Result: negative

Species: Mouse (male and female)
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative

(2-methoxymethylethoxy)propanol:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: Ames test
Test system: Escherichia coli
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster lung cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster fibroblasts
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: No information available.
Remarks: Test results on an analogous product

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Carcinogenicity

Not classified based on available information.

Components:

permethrin (ISO):

Remarks : No known significant effects or critical hazards.

Reproductive toxicity

Not classified based on available information.

Components:

2-ethylhexanoic acid, zirconium salt:

Effects on fertility : Species: Rat, female
Application Route: Oral
Dose: 100 milligram per kilogram
Duration of Single Treatment: 21 d
Symptoms: NOAEL, Foetotoxic

Species: Rat, female
Application Route: Oral
Dose: 250 milligram per kilogram
Duration of Single Treatment: 21 d
Symptoms: NOAEL, Maternal toxicity

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

permethrin (ISO):

Effects on fertility : Remarks: No known significant effects or critical hazards.

Effects on foetal development : Remarks: No known significant effects or critical hazards.

1,2-benzisothiazol-3(2H)-one:

Effects on fertility : Species: Rat, female
Application Route: Oral
General Toxicity - Parent: NOAEL: 112 mg/kg body weight
General Toxicity F1: NOAEL: 56.6 mg/kg body weight
General Toxicity F2: NOAEL: 56.6 mg/kg body weight
Method: OPPTS 870.3800
Result: negative

Effects on foetal development : Species: Rat, female
Application Route: Oral
Developmental Toxicity: NOAEL: 112 mg/kg body weight
Method: OPPTS 870.3800
Result: negative

(2-methoxymethylethoxy)propanol:

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Effects on fertility : Species: Rat, male and female
 Application Route: inhalation (vapour)
 General Toxicity - Parent: NOAEC: 300 ppm
 General Toxicity F1: NOAEC: 1,000 ppm
 General Toxicity F2: NOAEC: 1,000 ppm
 Fertility: NOAEC Parent: 1,000 parts per million
 Method: OECD Test Guideline 416
 Result: Animal testing did not show any effects on fertility.
 GLP: yes
 Remarks: Test results on an analogous product

Effects on foetal development : Test Type: Embryo-foetal development
 Species: Rat, female
 Application Route: inhalation (vapour)
 Dose: 50 - 150 - 300 parts per million
 General Toxicity Maternal: NOAEC: 300 ppm
 Developmental Toxicity: NOAEC: 300 ppm
 Embryo-foetal toxicity: NOAEC: 300 ppm
 Result: No teratogenic effects
 GLP: yes

Test Type: Embryo-foetal development
 Species: Rabbit, female
 Application Route: inhalation (vapour)
 Dose: 50 - 150 - 300 parts per million
 General Toxicity Maternal: NOAEC: 300 ppm
 Developmental Toxicity: NOAEC: 300 ppm
 Embryo-foetal toxicity: NOAEC: 300 ppm
 Result: No teratogenic effects
 GLP: yes

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

3-iodo-2-propynyl butylcarbamate:

Species : Rat
 NOAEL : 1,16 mg/m³
 Application Route : Inhalation
 Test atmosphere : dust/mist
 Exposure time : 91 d
 Number of exposures : 7 days/week
 Method : OECD Test Guideline 413
 GLP : yes
 Remarks : Subchronic toxicity

Species : Rat

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NOAEL : 20 mg/kg
 Application Route : Oral
 Exposure time : 2 yr
 Number of exposures : 7 days/week
 Remarks : Chronic toxicity

2-ethylhexanoic acid, zirconium salt:

Species : Rat, male and female
 NOAEL : 3,150 - 7,080 mg/kg
 Application Route : Oral
 Exposure time : 17 Weeks
 Number of exposures : 7 days/week
 Method : OECD Test Guideline 408
 GLP : no
 Remarks : Subchronic toxicity

Species : Rat
 NOAEL : >15,4 mg/m³
 Application Route : Inhalation
 Test atmosphere : dust/mist
 Exposure time : 60 d
 Number of exposures : 5 days/week
 Method : OECD Test Guideline 413
 Remarks : Subchronic toxicity

permethrin (ISO):

Remarks : No known significant effects or critical hazards.

1,2-benzisothiazol-3(2H)-one:

Species : Rat, male and female
 NOAEL : 150 mg/kg
 Application Route : Oral
 Exposure time : 28 d
 Method : OECD Test Guideline 407
 Remarks : Subacute toxicity

Species : Rat, male and female
 NOAEL : 69 mg/kg
 Application Route : Oral
 Exposure time : 90 d
 Method : Regulation (EC) No. 440/2008, Annex, B.26
 Remarks : Subchronic toxicity

(2-methoxymethylethoxy)propanol:

Species : Rat, male and female
 NOAEL : 1000 mg/kg
 Application Route : Oral
 Exposure time : 28 d
 Dose : 40 - 200 - 1000 mg/kg bw/d
 GLP : yes

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Remarks : Subacute toxicity

Species : Rat, male and female

NOAEL : $\geq 1212 \text{ mg/m}^3$

Application Route : Inhalation

Test atmosphere : vapour

Exposure time : 90 d

Dose : 91 - 303 - 1212 mg/m³

Method : OECD Test Guideline 413

GLP : yes

Remarks : Subchronic toxicity

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

3-iodo-2-propynyl butylcarbamate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.067 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.16 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: yes
Remarks: Fresh water

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 0.022 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Fresh water

NOEC (Desmodesmus subspicatus (green algae)): 0.0046 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Fresh water

M-Factor (Acute aquatic toxicity) : 10

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- Toxicity to microorganisms : EC50 (activated sludge): 44 mg/l
Exposure time: 3 h
- Toxicity to fish (Chronic toxicity) : NOEC: 0.0084 mg/l
Exposure time: 35 d
Species: Pimephales promelas (fathead minnow)
Method: OECD Test Guideline 210
Remarks: Fresh water
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.05 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Remarks: Fresh water
- M-Factor (Chronic aquatic toxicity) : 1
- 2-ethylhexanoic acid, zirconium salt:**
- Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
GLP: no
Remarks: Fresh water
- Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia (water flea)): 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: yes
Remarks: Fresh water
- Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 49.3 mg/l
Exposure time: 72 h
Method: DIN 38412
GLP: no
Remarks: Fresh water
- EC10 (Desmodesmus subspicatus (green algae)): 32 mg/l
Exposure time: 72 h
Method: DIN 38412
GLP: no
Remarks: Fresh water
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 25 mg/l
Exposure time: 21 Days
Species: Daphnia (water flea)
Method: OECD Test Guideline 211
GLP: no
Remarks: Fresh water

tebuconazole (ISO):

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Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 4.4 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 2.79 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (microalgae)): 3.8 mg/l Exposure time: 72 h
M-Factor (Acute aquatic toxicity)	:	1
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0.01 mg/l Exposure time: 21 Days Species: Daphnia magna (Water flea) Remarks: Fresh water
M-Factor (Chronic aquatic toxicity)	:	10

permethrin (ISO):

Toxicity to fish	:	LC50 (Poecilia reticulata (guppy)): 0.0076 mg/l Exposure time: 96 h Remarks: Fresh water
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia (water flea)): 0.00017 mg/l Exposure time: 48 h Remarks: Fresh water
Toxicity to algae/aquatic plants	:	EC50 (algae): 0.5 mg/l Exposure time: 72 h Remarks: Fresh water
M-Factor (Acute aquatic toxicity)	:	1,000 1,000
M-Factor (Chronic aquatic toxicity)	:	1,000 1,000

1,2-benzisothiazol-3(2H)-one:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 2.15 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 2.9 mg/l Exposure time: 48 h Method: OECD Test Guideline 202

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Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.11 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.0403 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC50 (adapted and activated sludge micro-organism): 12.8 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 0.58 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.02 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0.379 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

EC10 (Pseudokirchneriella subcapitata (green algae)): 0.188 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 100

M-Factor (Chronic aquatic toxicity) : 100

(2-methoxymethylethoxy)propanol:

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): > 1,000 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
GLP: yes
Remarks: Fresh water

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 1,919 mg/l

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aquatic invertebrates	Exposure time: 48 h Method: OECD Test Guideline 202 GLP: no Remarks: Fresh water
Toxicity to algae/aquatic plants	: ErC50 (Pseudokirchneriella subcapitata (algae)): > 969 mg/l End point: Growth rate Exposure time: 72 h Method: OECD Test Guideline 201 GLP: yes Remarks: Fresh water NOEC (Pseudokirchneriella subcapitata (algae)): 969 mg/l End point: Growth rate Exposure time: 72 h Method: OECD Test Guideline 201 GLP: yes Remarks: Fresh water
Toxicity to microorganisms	: EC10 (Pseudomonas putida): 4,168 mg/l End point: Growth rate Exposure time: 18 h GLP: yes
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: ≥ 0.5 mg/l End point: Reproduction Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211 GLP: yes Remarks: Fresh water

12.2 Persistence and degradability

Components:

3-iodo-2-propynyl butylcarbamate:

Biodegradability	: Concentration: 0.02 mg/l Biodegradation: > 80 % Exposure time: 1 d Method: OECD Test Guideline 302B Remarks: IPBC is rapidly transformed in the environment to PBC Result: Readily biodegradable.
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2-ethylhexanoic acid, zirconium salt:

Biodegradability	: Test Type: aerobic Result: Readily biodegradable. Biodegradation: 73.82 % Exposure time: 28 d Method: OECD Test Guideline 301B
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GLP: yes

tebuconazole (ISO):

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 20 %
Exposure time: 28 d
Method: OECD Test Guideline 301C

permethrin (ISO):

Biodegradability : Result: Not readily biodegradable.

1,2-benzisothiazol-3(2H)-one:

Biodegradability : Result: rapidly biodegradable
Remarks: Considered rapidly degradable in the environment.

Stability in water : Degradation half life: 2 - 3 Tage (12 °C)
Remarks: Estuary

Degradation half life: 5 - 12 Tage (12 °C)
Remarks: Marine water

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Biodegradability : Result: Not readily biodegradable.

(2-methoxymethylethoxy)propanol:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 75 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
GLP: yes

12.3 Bioaccumulative potential

Components:

3-iodo-2-propynyl butylcarbamate:

Partition coefficient: n-
octanol/water : log Pow: 2.8
Method: measured

tebuconazole (ISO):

Bioaccumulation : Bioconcentration factor (BCF): 78

Partition coefficient: n-
octanol/water : log Pow: 3.7

permethrin (ISO):

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Bioaccumulation : Bioconcentration factor (BCF): 300

Partition coefficient: n-octanol/water : log Pow: 5.95

1,2-benzisothiazol-3(2H)-one:

Bioaccumulation : Species: Fish
Bioconcentration factor (BCF): 6.62
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : log Pow: 0.7 (20 °C)
Method: Regulation (EC) No. 440/2008, Annex, A.8

(2-methoxymethylethoxy)propanol:

Bioaccumulation : Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

Partition coefficient: n-octanol/water : log Pow: 0.004 (25 °C)
Method: OECD Test Guideline 107

12.4 Mobility in soil

Components:

tebuconazole (ISO):

Distribution among environmental compartments : Koc: 769

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

12.6 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not contaminate ponds, waterways or ditches with chemical or used container.

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The product should not be allowed to enter drains, water courses or the soil.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14: Transport information

14.1 UN number

ADN : UN 3082
ADR : UN 3082
RID : UN 3082
IMDG : UN 3082
IATA : UN 3082

14.2 UN proper shipping name

ADN : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(3-iodo-2-propinyl-N-butylcarbamate, tebuconazol)
ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(3-iodo-2-propinyl-N-butylcarbamate, tebuconazol)
RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(3-iodo-2-propinyl-N-butylcarbamate, tebuconazol)
IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(3-iodo-2-propinyl-N-butylcarbamate, tebuconazol)
IATA : Environmentally hazardous substance, liquid, n.o.s.
(3-iodo-2-propinyl-N-butylcarbamate, tebuconazol)

14.3 Transport hazard class(es)

ADN : 9
ADR : 9
RID : 9
IMDG : 9

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IATA : 9

14.4 Packing group

ADN

Packing group : III
 Classification Code : M6
 Hazard Identification Number : 90
 Labels : 9
 :



ADR

Packing group : III
 Classification Code : M6
 Hazard Identification Number : 90
 Labels : 9
 :



Tunnel restriction code : (-)

RID

Packing group : III
 Classification Code : M6
 Hazard Identification Number : 90
 Labels : 9
 :



IMDG

Packing group : III
 Labels : 9
 :



EmS Code : F-A, S-F

IATA (Cargo)

Packing instruction (cargo aircraft) : 964 : 450.00 L
 Packing group : III
 Labels : 9

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IATA (Passenger)

Packing instruction (passenger aircraft) : 964 : 450.00 L

Packing group : III

Labels : 9



14.5 Environmental hazards

ADN

Environmentally hazardous : yes



ADR

Environmentally hazardous : yes



RID

Environmentally hazardous : yes



IMDG

Marine pollutant : yes



IATA (Passenger)

Environmentally hazardous : yes

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IATA (Cargo)

Environmentally hazardous : yes



14.6 Special precautions for user

Hazard and Handling Notes. : Environmentally hazardous substance., Keep separated from foodstuffs.

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	: Conditions of restriction for the following entries should be considered: Number on list 3
International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors	: Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	: Not applicable
Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors.	: Neither banned nor restricted

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Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : permethrin (ISO)

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
E1	ENVIRONMENTAL HAZARDS	100 t	200 t

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

15.2 Chemical safety assessment

SECTION 16: Other information

Full text of H-Statements

H301	: Toxic if swallowed.
H302	: Harmful if swallowed.
H310	: Fatal in contact with skin.
H314	: Causes severe skin burns and eye damage.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H330	: Fatal if inhaled.
H331	: Toxic if inhaled.
H332	: Harmful if inhaled.
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.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Dam.	: Serious eye damage
Repr.	: Reproductive toxicity
Skin Corr.	: Skin corrosion
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure
2000/39/EC	: Europe. Commission Directive 2000/39/EC establishing a first

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	list of indicative occupational exposure limit values
GB EH40	: UK. EH40 WEL - Workplace Exposure Limits
2000/39/EC / TWA	: Limit Value - eight hours
GB EH40 / TWA	: Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	: Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Classification procedure:

Calculation method
Calculation method

The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered to be a guidance for processing and does not contain any warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any

process, unless specified in the text. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.