

SÜDWEST VarioSan

Hazard pictograms



Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.

Precautionary statements : **Prevention:**
P261 Avoid breathing vapours.
P280 Wear protective gloves.
Response:
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
Disposal:
P501 Contents/container to be disposed of through approved disposal contractor or taken to municipal collection point.

Hazardous components which must be listed on the label:

2-methyl-2H-isothiazol-3-one

Additional Labelling

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Regulation concerning biocidal products (528/2012):

Contains 2-octyl-2H-isothiazol-3-one
, 4,5-dichloro-2-octyl-2H-isothiazol-3-one. As active agents for coating protection in accordance with Biocidal Product Regulation (528/2012), Article 58(3)

Contains 2-methyl-2H-isothiazol-3-one
, 1,2-benzisothiazol-3(2H)-one, reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one[EC no.247-500-7]and 2-methyl-2H-isothiazol-3-one[EC no.220-239-6] (3:1). As active agents for storage protection in accordance with Biocidal Product Regulation (528/2012), Article 58(3)

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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
titanium dioxide	13463-67-7 236-675-5 01-2119489379-17-XXXX	Carc. 2; H351, Note V, Note W, Note 10	≥ 1 - < 10
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6 01-2120761540-60-XXXX	Acute Tox. 4; H302 Acute Tox. 2; H330 Eye Dam. 1; H318 Skin Irrit. 2; H315 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 specific concentration limit Skin Sens. 1A ≥ 0,036 %	≥ 0,0025 - < 0,025
2-methyl-2H-isothiazol-3-one	2682-20-4 220-239-6 01-2120764690-50-XXXX	Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 2; H330 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1 specific concentration limit Skin Sens. 1A ≥ 0,0015 %	≥ 0,0025 - < 0,025
2-octyl-2H-isothiazol-3-one	26530-20-1 247-761-7 613-112-00-5	Acute Tox. 2; H330 Acute Tox. 3; H311 Acute Tox. 3; H301 Skin Corr. 1; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	≥ 0,005 - < 0,01

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		<p>M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100</p> <p>specific concentration limit Skin Sens. 1A ≥ 0,0015 %</p> <p>Acute toxicity estimate Acute oral toxicity: 125 mg/kg Acute inhalation toxicity: 0,27 mg/l Acute dermal toxicity: 311 mg/kg</p>	
4,5-dichloro-2-octyl-2H-isothiazol-3-one	64359-81-5 264-843-8	<p>Acute Tox. 2; H330 Acute Tox. 4; H302 Skin Corr. 1; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410</p> <p>M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100</p> <p>specific concentration limit Skin Irrit. 2 0,025 - < 5 % Eye Irrit. 2 0,025 - < 3 % Skin Sens. 1A ≥ 0,0015 %</p> <p>Acute toxicity estimate Acute oral toxicity: 567 mg/kg Acute inhalation toxicity: 0,16 mg/l</p>	≥ 0,005 - < 0,01
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one[EC no.247-500-7]and 2-methyl-2H-isothiazol-3-one[EC no.220-239-6] (3:1)	55965-84-9 613-167-00-5 01-2120764691-48-XXXX	<p>Acute Tox. 2; H330 Acute Tox. 2; H310 Acute Tox. 3; H301 Skin Corr. 1C; H314 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Eye Dam. 1; H318 EUH071</p>	≥ 0,0002 - < 0,0015

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		M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100 specific concentration limit Skin Corr. 1C ≥ 0,6 % Skin Irrit. 2 0,06 - < 0,6 % Eye Irrit. 2 0,06 - < 0,6 % Skin Sens. 1A ≥ 0,0015 % Eye Dam. 1 ≥ 0,6 %
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For explanation of abbreviations see section 16.

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures****SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media****SECTION 6: ACCIDENTAL RELEASE MEASURES****SECTION 7: HANDLING AND STORAGE****SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters****Occupational Exposure Limits**

Contains no substances with occupational exposure limit values.

The lists that were valid during the creation were used as basis.

Monitoring procedures for the assessment of workplace exposure: standard EN 482

8.2 Exposure controls**Personal protective equipment**

Hand protection

Break through time : 480 min

Glove thickness : 0,11 mm

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- Remarks : Recommended preventive skin protection Before starting work, apply water-resistant skincare preparations to exposed skin areas. Protective gloves should be worn in case of skin contact during preparation and application.
- Gloves made of nitrile rubber, e.g. KCL 740 Dermatril® (Kächele-Cama-Latex GmbH, Hotline: 0049(0)6659-87-300, kcl-uk@kcl.de), or equivalent. Cotton undergloves are recommendable when wearing protective gloves! Skin that comes into contact with the product should be treated with protective cream. After such contact, the product concerned should under no circumstances be used.
- The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

- Physical state : Viscous
- Colour : white
- Odour : Weak, characteristic
- Odour Threshold : No data available
- Melting point/freezing point : < 0 °C
- Initial boiling point and boiling range : not applicable

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Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	> 100 °C
Decomposition temperature	:	No data available
pH	:	ca. 8,0 - 9,5 (20 °C) Concentration: 100 %
Viscosity Viscosity, dynamic	:	ca. 2.500 - 3.500 mPa.s (20 °C)
Flow time	:	No data available
Solubility(ies) Water solubility	:	completely miscible
Partition coefficient: n-octanol/water	:	not determined
Vapour pressure	:	No data available
Density	:	ca. 1,45 - 1,55 g/cm ³ (20 °C)

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Relative vapour density : No data available

9.2 Other information

Explosives : Not explosive

Oxidizing properties : Not applicable

Flammability (liquids) : Not applicable

Self-ignition : not auto-flammable

Evaporation rate : not applicable

SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity****10.2 Chemical stability****10.3 Possibility of hazardous reactions****10.4 Conditions to avoid****10.5 Incompatible materials****10.6 Hazardous decomposition products****SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity****Product:**

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

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

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

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

Acute oral toxicity LD50 (Rat): 532 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity LC50 (Rat): 0,4 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

2-methyl-2H-isothiazol-3-one:

Acute oral toxicity Toxic if swallowed.

Acute inhalation toxicity Assessment: Corrosive to the respiratory tract.
Toxic if inhaled.

Acute dermal toxicity Toxic in contact with skin.

2-octyl-2H-isothiazol-3-one:

Acute oral toxicity Acute toxicity estimate: 125 mg/kg
Method: Acute toxicity estimate according to Regulation (EC) No.
1272/2008

Acute inhalation toxicity Acute toxicity estimate: 0,27 mg/l
Test atmosphere: dust/mist
Method: Acute toxicity estimate according to Regulation (EC) No.
1272/2008

Acute dermal toxicity Acute toxicity estimate: 311 mg/kg
Method: Acute toxicity estimate according to Regulation (EC) No.
1272/2008

4,5-dichloro-2-octyl-2H-isothiazol-3-one:

Acute oral toxicity Acute toxicity estimate: 567 mg/kg
Method: Acute toxicity estimate according to Regulation (EC) No.
1272/2008

Acute inhalation toxicity Acute toxicity estimate: 0,16 mg/l
Test atmosphere: dust/mist
Method: Acute toxicity estimate according to Regulation (EC) No.
1272/2008

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one[EC no.247-500-7]and 2-methyl-2H-isothiazol-3-one[EC no.220-239-6] (3:1):

Acute oral toxicity Toxic if swallowed.

Acute inhalation toxicity Assessment: Corrosive to the respiratory tract.
Fatal if inhaled.

Acute dermal toxicity Fatal in contact with skin.

Skin corrosion/irritation**Components:****1,2-benzisothiazol-3(2H)-one:**

Causes skin irritation.

2-methyl-2H-isothiazol-3-one:

Causes severe skin burns and eye damage.

2-octyl-2H-isothiazol-3-one:

Causes severe skin burns and eye damage.

SÜDWEST VarioSan**4,5-dichloro-2-octyl-2H-isothiazol-3-one:**

Causes severe skin burns and eye damage.

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one[EC no.247-500-7]and 2-methyl-2H-isothiazol-3-one[EC no.220-239-6] (3:1):

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation**Components:****1,2-benzisothiazol-3(2H)-one:**

Causes serious eye damage.

2-methyl-2H-isothiazol-3-one:

Causes serious eye damage.

2-octyl-2H-isothiazol-3-one:

Causes serious eye damage.

4,5-dichloro-2-octyl-2H-isothiazol-3-one:

Causes serious eye damage.

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one[EC no.247-500-7]and 2-methyl-2H-isothiazol-3-one[EC no.220-239-6] (3:1):

Causes serious eye damage.

Respiratory or skin sensitisation**Product:**May cause an allergic skin reaction.
Does not cause respiratory sensitisation.**Components:****1,2-benzisothiazol-3(2H)-one:**

May cause an allergic skin reaction.

2-methyl-2H-isothiazol-3-one:

May cause an allergic skin reaction.

2-octyl-2H-isothiazol-3-one:

May cause an allergic skin reaction.

4,5-dichloro-2-octyl-2H-isothiazol-3-one:

Species

Guinea pig

Method

OECD Test Guideline 406

May cause an allergic skin reaction.

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one[EC no.247-500-7]and 2-methyl-2H-isothiazol-3-one[EC no.220-239-6] (3:1):

May cause an allergic skin reaction.

Germ cell mutagenicity**Product:**

Genotoxicity in vitro

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

Carcinogenicity**Product:**

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

Components:**titanium dioxide:**

Suspected of causing cancer.

Reproductive toxicity**Product:**

Effects on fertility

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

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

STOT - single exposure**Product:**

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

STOT - repeated exposure**Product:**

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

Aspiration toxicity**Product:**

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

11.2 Information on other hazards**Endocrine disrupting properties****Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity****Product:**

Toxicity to fish No data available

Toxicity to algae/aquatic plants Based on available data, the classification criteria are not met. The toxicological data has been taken from products of similar composition.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) Based on available data, the classification criteria are not met. The toxicological data has been taken from products of similar composition.

Toxicity to microorganisms No data available

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

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): 2,2 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates EC50 (Daphnia (water flea)): 3,27 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants EC50 (Selenastrum capricornutum (green algae)): 0,11 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Selenastrum capricornutum (green algae)): 0,04 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) 1

Toxicity to fish (Chronic toxicity) NOEC: 0,21 mg/l
Exposure time: 28 d
Species: Oncorhynchus mykiss (rainbow trout)

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	Method: OECD Test Guideline 215
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOEC: 1,2 mg/l Exposure time: 21 d Species: Daphnia (water flea) Method: OECD Test Guideline 211
M-Factor (Chronic aquatic toxicity)	1
2-methyl-2H-isothiazol-3-one: Toxicity to fish	LC50 (Fish): 4,77 mg/l Exposure time: 96 h Test Type: flow-through test Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	LC50 (Daphnia magna (Water flea)): 0,934 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	NOEC (Pseudokirchneriella subcapitata (algae)): 0,05 mg/l Exposure time: 120 h Test Type: static test EC50 (Pseudokirchneriella subcapitata (algae)): 0,138 mg/l Exposure time: 120 h Test Type: static test
M-Factor (Acute aquatic toxicity)	10
Toxicity to microorganisms	EC50 (activated sludge): 41 mg/l Exposure time: 3 h Method: OECD Test Guideline 209
Toxicity to fish (Chronic toxicity)	NOEC: 2,38 mg/l Exposure time: 98 d Species: Oncorhynchus mykiss (rainbow trout) Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOEC: 0,044 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211
M-Factor (Chronic aquatic toxicity)	1
2-octyl-2H-isothiazol-3-one: Toxicity to fish	LC50 (Oncorhynchus mykiss (rainbow trout)): 0,05 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia magna (Water flea)): 0,42 mg/l Exposure time: 48 h
M-Factor (Acute aquatic toxicity)	100
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOEC: 0,058 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)
M-Factor (Chronic aquatic toxicity)	100
4,5-dichloro-2-octyl-2H-isothiazol-3-one:	

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Toxicity to fish	LC50 (Oncorhynchus mykiss (rainbow trout)): 0,0078 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia (water flea)): 0,0097 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	EC50 (Desmodesmus subspicatus (green algae)): 0,025 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 NOEC (Scenedesmus quadricauda (Green algae)): 0,015 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
M-Factor (Acute aquatic toxicity)	100
Toxicity to fish (Chronic toxicity)	NOEC: 0,00047 mg/l Exposure time: 28 d Species: Danio rerio (zebra fish) Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOEC: 0,0004 mg/l Exposure time: 21 d Species: Daphnia (water flea) Method: OECD Test Guideline 211
M-Factor (Chronic aquatic toxicity)	100
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one[EC no.247-500-7]and 2-methyl-2H-isothiazol-3-one[EC no.220-239-6] (3:1):	
Toxicity to fish	LC50 (Oncorhynchus mykiss (rainbow trout)): 0,19 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia (water flea)): 0,12 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	EC50 (Skeletonema costatum (marine diatom)): 0,0052 mg/l Exposure time: 48 h NOEC (Skeletonema costatum (marine diatom)): 0,00049 mg/l Exposure time: 48 h
M-Factor (Acute aquatic toxicity)	100
Toxicity to fish (Chronic toxicity)	NOEC: 0,098 mg/l Exposure time: 28 d Species: Oncorhynchus mykiss (rainbow trout) Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOEC: 0,004 mg/l Exposure time: 21 d Species: Daphnia (water flea)
M-Factor (Chronic aquatic toxicity)	100

12.2 Persistence and degradability**Product:**

Biodegradability No data available

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Biodegradability not rapidly degradable

2-methyl-2H-isothiazol-3-one:

Biodegradability Readily biodegradable.

2-octyl-2H-isothiazol-3-one:

Biodegradability Not readily biodegradable.

4,5-dichloro-2-octyl-2H-isothiazol-3-one:

Biodegradability rapidly degradable

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one[EC no.247-500-7]and 2-methyl-2H-isothiazol-3-one[EC no.220-239-6] (3:1):

Biodegradability not rapidly degradable

12.3 Bioaccumulative potential**Product:**

Bioaccumulation No data available

Components:**1,2-benzisothiazol-3(2H)-one:**Partition coefficient: n-octanol/water log Pow: 0,7
Method: OECD Test Guideline 117**2-methyl-2H-isothiazol-3-one:**

Bioaccumulation Bioconcentration factor (BCF): 3,16

4,5-dichloro-2-octyl-2H-isothiazol-3-one:

Bioaccumulation Bioconcentration factor (BCF): 13

Partition coefficient: n-octanol/water log Pow: 4,4

12.4 Mobility in soil

No data available

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 Endocrine disrupting properties**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects**Product:**

Additional ecological information Do not allow product to enter into ground water, bodies of water or sewage systems.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Product The user is responsible for proper coding and marking of any waste. Dispose of as special waste in compliance with local and national

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regulations.

Partial and residual quantities can be reused.

Contaminated packaging

Packaging that is not properly emptied must be disposed of as the unused product.

Empty packaging should be recycled through disposal systems.

SECTION 14: TRANSPORT INFORMATION**14.1 UN number or ID number**

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards**14.6 Special precautions for user**

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

VOC

Directive 2010/75/EU

0,02 %

VOC

Directive 2004/42/EC

0,7 %

11,0 g/l

EU limit value for this product (cat. A/c) :40 g/l This product contains max40 g/lVOC.

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals

Not applicable

15.2 Chemical safety assessment

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This information is not available.

SECTION 16: OTHER INFORMATION

Changes from the previous version are indicated by markings in the left-hand margin. The information in this Safety Data Sheet corresponds to our present state of knowledge and conforms to both national and EU legislation. The user's working conditions are, however, beyond our knowledge and control. The user is responsible for complying with all necessary legal requirements. The information in this Safety Data Sheet describes the safety requirements of our product and does not constitute any assurance of product properties.

Full text of H-Statements

H301	: Toxic if swallowed.
H302	: Harmful if swallowed.
H310	: Fatal in contact with skin.
H311	: Toxic in contact with skin.
H314	: Causes severe skin burns and eye damage.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H330	: Fatal if inhaled.
H351	: Suspected of causing cancer if inhaled.
H400	: Very toxic to aquatic life.
H410	: Very 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
Carc.	: Carcinogenicity
Eye Dam.	: Serious eye damage
Skin Corr.	: Skin corrosion
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - 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

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Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations;
vPvB - Very Persistent and Very Bioaccumulative

Further information

Department issuing MSDS
REG_EU / EN

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