OIKOS

OIKOS S.P.A. A SOCIO UNICO ANTIRUGGINE ECOLOGICO

Revision nr.15 Dated 23/12/2022 Printed on 23/12/2022 Page n. 1 / 11 Replaced revision:14 (Dated 19/12/2022)

Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

SECTION 1. Identif	ication of the subs	stance/mix	ture and of the	e company/under	rtaking	
1.1. Product identifier						
Product name		ANTIRUGGII	NE ECOLOGICO			
1.2. Relevant identified us	ses of the substance or m	nixture and use	es advised against			
Intended use			r suitable for all ferr rofessional and don	ous surfaces, protects nestic use.	against corrosio	on and rust
Uses advised against L	Jses other than those ind	icated				
1.3. Details of the supplie	r of the safety data sheet					
Name Full address District and Country		OIKOS S.P.A Via Cherubir 47043 Tel. Fax	A. A SOCIO UNICO hi 2 Gatteo Mare Italia 0547 681412 0547 681430	(FC)		
e-mail address of the co responsible for the Safet			iprodotti@oikos-gro	oup.it		
1.4. Emergency telephone	e number					
For urgent inquiries refe	r to	NHS Nationa	Il Health Service 111	I		
	nico Company emergenc nday to Friday from 8.00-					
SECTION 2. Hazards iden	tification					
However, since the prod	fied as hazardous pursuan luct contains hazardous sul ate information, compliant t	bstances in con	centrations such as t			a safety
2.2. Label elements						
Hazard labelling pursuar	nt to EC Regulation 1272/2	008 (CLP) and	subsequent amendm	ents and supplements.		
Hazard pictograms:						
Signal words:						
Hazard statements: EUH210 EUH208	2-n	eaction mass of methyl-2H-isoth 2-benzisothiazo	5-chloro-2-methyl-2H iazol-3-one [EC no. 2	l-isothiazol-3-one[EC no 20-239-6] (3:1)	. 247-500-7] and	
Precautionary statement	is:					
VOC (Directive 2004/42/ One - pack performance						
					i i	@EPY 11.4.1 - SDS 1004.14

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SECTION 2. Hazards identification ... / >>

VOC given in g/litre of product in a ready-to-use condition : Limit value:

95,00 140,00

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration $\ge 0.1\%$.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc.	% Classifie	cation (EC) 1272/2008 (CLP)
TALC			
INDEX		5≤x< 7	Acute Tox. 4 H332, STOT SE 3 H335
EC	238-877-9		STA Inhalation mists/powders: 1,5 mg/l
CAS	14807-96-6		
1,2-benzisoth	iazol-3(2H)-one		
INDEX	613-088-00-6	0,024 ≤ x < 0,03	Acute Tox. 2 H330, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411
EC	220-120-9		Skin Sens. 1 H317: ≥ 0,05%
CAS	2634-33-5		LD50 Oral: >490 mg/kg bw, STA Inhalation mists/powders: 0,051 mg/l, STA Inhalation vapours: 0,501 mg/l
REACH Reg.	01-2120761540-60		
Reaction mas (3:1)	s of 5-chloro-2-meth	nyl-2H-isothiazol-3-one	[EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]
INDEX	613-167-00-5	0,00144 ≤ x < 0,0015	Acute Tox. 1 H330, Acute Tox. 2 H310, Acute Tox. 3 H301, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=100
EC	611-341-5		Skin Corr. 1C H314: ≥ 0,6%, Skin Irrit. 2 H315: ≥ 0,06%, Skin Sens. 1 H317: ≥ 0,0015%, Eye Irrit. 2 H319: ≥ 0,6%
CAS	55965-84-9		LD50 Oral: >64 mg/kg bw, STA Dermal: 50,001 mg/kg, STA Inhalation vapours: 0,05 mg/l
REACH Reg.	01-2120764691-48		

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT



SECTION 5. Firefighting measures ... / >>

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available



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SECTION 8. Exposure controls/personal protection

8.1. Control parameters

P	España		Límitos do (ovposición prof	ocional para ag	ontos químicos	on Echaña 202	1	
SF OL	Polska		Límites de exposición profesional para agentes químicos en España 2021 Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające						
OL .	FUISKa		rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych						
				w środowisku j		, ,	ι ι	,	,
BR	R United Kingdom TLV-ACGIH		EH40/2005 Workplace exposure limits (Fourth Edition 2020)						
			ACGIH 202	1					
					TALC				
hreshold Limit Va	alue								
Туре	Country	TWA/8h	n STEL/15min		imin	Remarks / Observations			
••		mg/m3	ppm	mg/m3	ppm				
VLA	ESP	2				RESP			
NDS/NDSCh	POL	4				INHAL			
		4				RESP			
NDS/NDSCh	POL	1				REGE			
NDS/NDSCh WEL	POL GBR	1				RESP			
WEL TLV-ACGIH Reaction mass of a	GBR 5-chloro-2-	1 2	-isothiazol-3	3-one[EC no. 2	47-500-7] and	RESP RESP	sothiazol-3-one	∋ [EC no.	
WEL TLV-ACGIH	GBR 5-chloro-2- 6] (3:1)	1 2 methyl-2H		3-one[EC no. 2	47-500-7] and	RESP RESP	sothiazol-3-one	e [EC no.	
WEL TLV-ACGIH ceaction mass of 220-239-0	GBR 5-chloro-2- 6] (3:1) t concentra	1 2 methyl-2H		3-one[EC no. 2	47-500-7] and	RESP RESP	sothiazol-3-one 3,39	≱ [EC no. μg/l	
WEL TLV-ACGIH ceaction mass of 220-239-0 redicted no-effec	GBR 5-chloro-2- 6] (3:1) t concentra fresh water	1 2 methyl-2H ation - PNE		3-one[EC no. 2	47-500-7] and	RESP RESP			
WEL TLV-ACGIH ceaction mass of 220-239-0 redicted no-effec Normal value in	GBR 5-chloro-2- 6] (3:1) t concentra fresh water marine wate	1 2 methyl-2H ation - PNE		3-one[EC no. 2	47-500-7] and	RESP RESP	3,39	μg/l	
WEL TLV-ACGIH ceaction mass of 220-239-0 redicted no-effec Normal value in Normal value in	GBR 5-chloro-2- 6] (3:1) t concentra fresh water marine wate fresh water	1 2 methyl-2H ation - PNE er r sediment	EC	3-one[EC no. 2	47-500-7] and	RESP RESP	3,39 3,39	- μg/l μg/l	
WEL TLV-ACGIH ceaction mass of 220-239-(redicted no-effec Normal value in Normal value in Normal value for	GBR 5-chloro-2- 6] (3:1) t concentra fresh water marine wate fresh water marine water	1 2 methyl-2H ation - PNE er r sediment ter sedimer	EC	3-one[EC no. 2	47-500-7] and	RESP RESP	3,39 3,39 27	μg/l μg/l μg/kg	
WEL TLV-ACGIH ceaction mass of 220-239-(redicted no-effec Normal value in Normal value in Normal value for Normal value for	GBR 5-chloro-2- 6] (3:1) t concentra fresh water marine wate fresh water marine wate STP microo	1 2 methyl-2H ation - PNE er r sediment ter sedimer rgganisms	EC	3-one[EC no. 2	47-500-7] and	RESP RESP	3,39 3,39 27 27	μg/l μg/l μg/kg μg/kg	
WEL TLV-ACGIH Reaction mass of 220-239-(redicted no-effec Normal value in Normal value in Normal value for Normal value of Normal value of Normal value of Normal value of	GBR 5-chloro-2- 6] (3:1) t concentra fresh water marine wate fresh water marine wate STP microco o-effect lev Effe	1 2 methyl-2H ation - PNE er r sediment ter sedimer rgganisms	eC nt / DMEL			RESP RESP 2-methyl-2H-i	3,39 3,39 27 27 230	μg/l μg/l μg/kg μg/kg μg/l	
WEL TLV-ACGIH Reaction mass of 220-239-(redicted no-effec Normal value in Normal value in Normal value for Normal value of	GBR 5-chloro-2- 6] (3:1) t concentra fresh water marine wate fresh water marine wate sTP microco co-effect lev Effe re Acu	1 2 methyl-2H ation - PNE ation - PNE r sediment ter sediment rganisms el - DNEL cts on cons te Ad	EC Int I DMEL sumers cute	Chronic	Chronic	RESP RESP 2-methyl-2H-i Effects on w Acute	3,39 3,39 27 27 230 orkers Acute	μg/l μg/l μg/kg μg/kg μg/l Chronic	Chronic
WEL TLV-ACGIH Reaction mass of 220-239-(redicted no-effec Normal value in Normal value in Normal value for Normal value for Normal value of Route of exposu	GBR 5-chloro-2- 6] (3:1) t concentra fresh water marine wate fresh water marine wate STP microco o-effect lev Effe	1 2 methyl-2H ation - PNE ation - PNE er r sediment ter sedimer organisms el - DNEL cts on cons te Ad I sy	EC ht DMEL sumers cute rstemic		Chronic systemic	RESP RESP 2-methyl-2H-i	3,39 3,39 27 27 230 orkers	μg/l μg/l μg/kg μg/kg μg/l	Chronic systemic
WEL TLV-ACGIH Reaction mass of 220-239-(redicted no-effec Normal value in Normal value in Normal value for Normal value of Normal value of Normal value of Normal value of	GBR 5-chloro-2- 6] (3:1) t concentra fresh water marine wate fresh water marine wate sTP microco co-effect lev Effe re Acu	1 2 methyl-2H ation - PNE ation - PNE r sediment ter sediment reganisms el - DNEL cts on cons te Ad l sy 11	EC ht DMEL sumers cute rstemic 0	Chronic	Chronic systemic 90	RESP RESP 2-methyl-2H-i Effects on w Acute	3,39 3,39 27 27 230 orkers Acute	μg/l μg/l μg/kg μg/kg μg/l Chronic	
WEL TLV-ACGIH Reaction mass of 220-239-(redicted no-effec Normal value in Normal value in Normal value for Normal value for Normal value of Route of exposu Oral	GBR 5-chloro-2- 6] (3:1) t concentra fresh water marine wate fresh water marine wate sTP microco co-effect lev Effe re Acu	1 2 methyl-2H ation - PNE ation - PNE er r sediment ter s	EC ht / DMEL sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers	Chronic local	Chronic systemic 90 µg/kg bw/d	RESP RESP 2-methyl-2H-i	3,39 3,39 27 27 230 orkers Acute systemic	μg/l μg/l μg/kg μg/kg μg/l Chronic local	systemic
WEL TLV-ACGIH Reaction mass of 220-239-(redicted no-effec Normal value in Normal value in Normal value for Normal value for Normal value of Route of exposu	GBR 5-chloro-2- 6] (3:1) t concentra fresh water marine wate fresh water marine wate sTP microco co-effect lev Effe re Acu loca	1 2 methyl-2H ation - PNE ation - PNE er r sediment ter sedimer organisms el - DNEL cts on cons te Ad l sy 11 pg	EC ht / DMEL sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers sumers	Chronic	Chronic systemic 90	RESP RESP 2-methyl-2H-i Effects on w Acute	3,39 3,39 27 27 230 orkers Acute	μg/l μg/l μg/kg μg/kg μg/l Chronic	

			1,2-benzisc	othiazol-3(2H)-0	ne			
Predicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	water					4,03	µg/l	
Normal value in marin	ne water					403	ng/l	
Normal value for fres	h water sed	iment				49,9	µg/kg	
Normal value for mar	ine water se	ediment				4,99	µg/kg	
Normal value of STP	isms			1,03	mg/l			
lealth - Derived no-eff	ect level - C	DNEL / DMEL						
	Effects o	n consumers			Effects on v	vorkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Inhalation				1,2				6,81
mg/m3							mg/m3	
Skin				345				966
				µg/kg bw/d				µg/kg
								bw/d

41.1

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction. VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

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SECTION 8. Exposure controls/personal protection ... / >>

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties Appearance		Value pasty liquid
Colour		White and the colour chart shades
Odour		Feeble
Melting point / freezing point		not available
Initial boiling point	>	100 °C
Flammability		not flammable
Lower explosive limit		not applicable
Upper explosive limit		not applicable
Flash point	>	60 °C
Auto-ignition temperature		not applicable
Decomposition temperature		not available
рН		8,5-9
Kinematic viscosity		not available
Dynamic viscosity		4000 cps
Solubility		Mixable in water
Partition coefficient: n-octanol/water		not available
Vapour pressure		not available
Density and/or relative density		1,25
Relative vapour density		not available
Particle characteristics		not applicable
9.2. Other information		

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2004/42/EC) :

1,01 % - 12,66 g/litre

Information



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SECTION 9. Physical and chemical properties/>>

VOC (volatile carbon) Explosive properties Oxidising properties 0,32 % - 4,04 not applicable not applicable g/litre

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture: > 5 mg/l Not classified (no significant component) Not classified (no significant component)

TALC

STA (Inhalation mists/powders):

1,5 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)



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SECTION 11. Toxicological information ... / >>

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

LD50 (Dermal): STA (Dermal):

LD50 (Oral): LC50 (Inhalation vapours):

1,2-benzisothiazol-3(2H)-one LD50 (Dermal): LD50 (Oral): 1008 mg/kg bw (rat) 50,001 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture) > 64 mg/kg bw 64-561 (rat) > 171 mg/m3 171-2360 (rat)

2000 mg/kg bw (rat) > 490 mg/kg bw 490-670 (rat)

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

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

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Contains:

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)LC50 - for Fish> 190 μ g/l 190-330EC50 - for Crustacea> 7 μ g/l 7-160EC50 - for Algae / Aquatic Plants> 6,3 μ g/l 6,3-27,3Chronic NOEC for Fish46,4 μ g/l 35 daysChronic NOEC for Crustacea> 111 μ g/l 11.1-1050



> 2,15 mg/l 2,15-22

> 2,9 mg/l 2,9-2,94

> 70 µg/l 70-150

> 40,3 µg/l 40-55

SECTION 12. Ecological information ... / >>

1,2-benzisothiazol-3(2H)-one LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants Chronic NOEC for Algae / Aquatic Plants

12.2. Persistence and degradability

TALC Solubility in water

< 0,1 mg/l

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

1,2-benzisothiazol-3(2H)-one Rapidly degradable

12.3. Bioaccumulative potential

Information not available

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

not applicable

14.2. UN proper shipping name

not applicable

14.3. Transport hazard class(es)

not applicable

ΕN

SECTION 14. Transport information ... / >>

4. Packing group	
not applicable	
.5. Environmental haza	rds
not applicable	
.6. Special precautions	for user
not applicable	
.7. Maritime transport i	n bulk according to IMO instruments
Information not relevant	
	Ilatory information
CHON 15. Regu	
.1. Safety, health and e	nvironmental regulations/legislation specific for the substance or mixture
Seveso Category - Direc	ctive 2012/18/EU: None
Restrictions relating to t ⁱ	he product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006
Product	
Point Contained substance	40
Point	75
Substances subject to a	e data, the product does not contain any SVHC in percentage ≥ than 0,1%. uthorisation (Annex XIV REACH)
None Substances subject to e None	xportation reporting pursuant to Regulation (EU) 649/2012:
Substances subject to th	ne Rotterdam Convention:
None	
Substances subject to the None	ne Stockholm Convention:
Healthcare controls Information not available	3
	/EC) :
Information not available VOC (Directive 2004/42 One - pack performance	/EC) : coatings. ne classification of substances hazardous to water (AwSV, vom 18. April 2017)
Information not available VOC (Directive 2004/42 One - pack performance German regulation on th	/EC) : coatings. ne classification of substances hazardous to water (AwSV, vom 18. April 2017) rs
Information not available VOC (Directive 2004/42 One - pack performance German regulation on th WGK 2: Hazard to wate 2. Chemical safety ass	/EC) : coatings. ne classification of substances hazardous to water (AwSV, vom 18. April 2017) rs
Information not available VOC (Directive 2004/42 One - pack performance German regulation on th WGK 2: Hazard to wate 2. Chemical safety ass	/EC) : coatings. ne classification of substances hazardous to water (AwSV, vom 18. April 2017) rs sessment sment has not been performed for the preparation/for the substances indicated in section 3



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SECTION 16. Other information ... / >>

Eye Dam. 1 Skin Irrit. 2 STOT SE 3 Skin Sens. 1 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 H330 H310 H330 H301	Serious eye damage, category 1 Skin irritation, category 2 Specific target organ toxicity - single exposure, category 3 Skin sensitization, category 1 Hazardous to the aquatic environment, acute toxicity, category 1 Hazardous to the aquatic environment, chronic toxicity, category 1 Hazardous to the aquatic environment, chronic toxicity, category 2 Fatal if inhaled. Fatal in contact with skin. Fatal if inhaled. Toxic if swallowed.
H302 H332	Harmful if swallowed. Harmful if inhaled.
H314	Causes severe skin burns and eye damage.
H318 H315	Causes serious eye damage. Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
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.
EUH210	Safety data sheet available on request.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)



SECTION 16. Other information ... / >>

- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review: The following sections were modified: 02/03/08/10/11/12/13/15/16.