

# OIKOS S.P.A. A SOCIO UNICO **BIOCOMPACT**

Printed on 07/06/2022 Page n. 1 / 13 Replaced revision:9 (Dated 21/05/2020)

# Safety Data Sheet

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

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

1.1. Product identifier

**BIOCOMPACT** Product name

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

Intended use Water based acrylic decorative coating for exterior.

Uses advised against Uses other than those indicated

1.3. Details of the supplier of the safety data sheet

OIKOS S.P.A. A SOCIO UNICO Name

Full address Via Cherubini 2

**District and Country** 47043 Gatteo Mare (FC)

Italia

0547 681412 Tel. 0547 681430 Fax

e-mail address of the competent person

responsible for the Safety Data Sheet certificazioniprodotti@oikos-group.it

1.4. Emergency telephone number

NHS National Health Service 111 For urgent inquiries refer to

OIKOS S.P.A. a socio unico Company emergency number: 0547 681412 Technical support - Monday to Friday from 8.00-13.00; 13:30 to 16:30

# SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Hazardous to the aquatic environment, chronic H412 Harmful to aquatic life with long lasting effects.

toxicity, category 3

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:

Signal words:

Hazard statements:

H412 Harmful to aquatic life with long lasting effects.

**EUH208** 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

May produce an allergic reaction.

Precautionary statements:

VOC (Directive 2004/42/EC):

Coatings for exterior walls of mineral substrate.



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SECTION 2. Hazards identification .../>>

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

30.00 40.00

This coating contains biocides with fungicidal and algacidal properties. Active ingredients: 3-lodo-2-propinil-butilcarbammato CAS 55406-53-6; Zinc Pyrithione CAS 13463-41-7; Terbutryn CAS 886-50-0. Water used for washing work tools after application must not be released into the ground or into surface water.

#### 2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

# SECTION 3. Composition/information on ingredients

#### 3.2. Mixtures

Contains:

Identification x = Conc. % Classification (EC) 1272/2008 (CLP)

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

CAS 2634-33-5  $0.014 \le x < 0.02$ 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

220-120-9 EC Skin Sens. 1 H317: ≥ 0,05%

**INDEX** 613-088-00-6 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

Pyrithione zinc

CAS 13463-41-7  $0.009 \le x < 0.015$ Repr. 1B H360D, Acute Tox. 2 H330, Acute Tox. 3 H301, STOT RE 1 H372.

Eye Dam. 1 H318, Aquatic Acute 1 H400 M=1000, Aquatic Chronic 1 H410

M = 10

EC 236-671-3 LD50 Oral: 221 mg/kg, STA Inhalation vapours: 0,501 mg/l

**INDEX** 613-333-00-7

terbutryn

886-50-0  $0.0079 \le x < 0.009$ Acute Tox. 4 H302, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=100, CAS Aquatic Chronic 1 H410 M=100, EUH208

EC 212-950-5 EUH208: ≥ 0,1%, Skin Sens. 1B H317: ≥ 0%

**INDEX** STA Oral: 500 mg/kg

Ammonia

CAS 1336-21-6 0,00269 ≤ x < 0,00379 Skin Corr. 1B H314, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=1,

Classification note according to Annex VI to the CLP Regulation: B

EC 215-647-6 **INDEX** 007-001-01-2

**FORMALDEHYDE** 

 $0.0015 \le x < 0.0026$ Carc. 1B H350, Muta. 2 H341, Acute Tox. 2 H330, Acute Tox. 3 H301, Acute 50-00-0 CAS

Tox. 3 H311, Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335, Skin

Sens. 1 H317, Classification note according to Annex VI to the CLP

200-001-8 Skin Corr. 1B H314: ≥ 25%, Skin Irrit. 2 H315: ≥ 5%, Skin Sens. 1 H317: ≥ FC.

0,2%, Eye Dam. 1 H318: ≥ 25%, Eye Irrit. 2 H319: ≥ 5%, STOT SE 3 H335: ≥

5%

**INDEX** 605-001-00-5 LD50 Oral: 100 mg/kg, LD50 Dermal: 270 mg/kg, LC50 Inhalation vapours:

0.588 ma/l/4h

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)

FC.

**INDEX** 

CAS 55965-84-9 Acute Tox. 1 H330, Acute Tox. 2 H310, Acute Tox. 3 H301, Skin Corr. 1B  $0,00015 \le x < 0,0011$ 

H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=100,

Aquatic Chronic 1 H410 M=100

Skin Corr. 1C H314: ≥ 0,6%, Skin Irrit. 2 H315: ≥ 0,06%, Skin Sens. 1 H317: ≥

0,0015%, Eye Irrit. 2 H319: ≥ 0,6%

LD50 Oral: >64 mg/kg bw, STA Dermal: 50,001 mg/kg, STA Inhalation

vapours: 0,05 mg/l

01-2120764691-48 REACH Reg.

611-341-5

613-167-00-5

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



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### 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

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.



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# 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

# SECTION 8. Exposure controls/personal protection

#### 8.1. Control parameters

# Regulatory References:

Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung
	gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
∟spana	Límites de exposición profesional para agentes químicos en España 2021
France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
Italia	Decreto Legislativo 9 Aprile 2008, n.81
Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające
	rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych
	dla zdrowia w środowisku pracy
United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU)
	2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive
	2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
TI V-ACGIH	ACGIH 2021
	España France Italia Polska United Kingdom

				An	nmonia	
Threshold Limi	it Value					
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	14	20	36	50	

				FORMA	LDEHYDE	
Threshold Limit Va	alue					
Type	Country	TWA/8h		STEL/15r	min	Remarks / Observations
	•	mg/m3	ppm	mg/m3	ppm	
AGW	DEU	0,37	0,3	0,74	0,6	
VLA	ESP	0,37	0,3	0,74	0,6	
VLEP	FRA	0,37	0,3	0,74	0,6	
VLEP	ITA	0,37	0,3	0,74	0,6	
NDS/NDSCh	POL	0,37		0,74		SKIN
WEL	GBR	2,5	2	2,5	2	
OEL	EU	0,37	0,3	0,74	0,6	
TLV-ACGIH			0,1		0,3	



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SECTION 8. Exposure controls/personal protection

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Reaction mass of 5-chlor	o-2-methyl-2	2H-isothiazol-3-or	ne[EC no. 247-	.500-7] and 2-me	ethyl-2H-isothi	azol-3-one [EC r	10.	
220-239-6] (3:1	1)		_	-		_		
Predicted no-effect conce	entration - Pl	NEC						
Normal value in fresh	water					3,39	μg/l	
Normal value in marin	ie water					3,39	μg/l	
Normal value for fresh	n water sedir	ment				27	μg/kg	
Normal value for mari	ne water sed	diment				27	μg/kg	
Normal value of STP	microorganis	sms				230	μg/l	
lealth - Derived no-effect	t level - DNE	EL / DMEL						
	Effects on	consumers			Effects on w	orkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral		110		90				
		μg/kg bw/d		μg/kg bw/d				
Inhalation	40	NPI	20	NPI	40	NPI	20	NPI
	μg/m3		μg/m3		µg/m3		μg/m3	
Skin		NPI	NPI	NPI		NPI	NPI	NPI

			1,2-benziso	thiazol-3(2H)-on	е			
Predicted no-effect cond	entration - P	NEC						
Normal value in fresh	water					4,03	μg/l	
Normal value in mari	ne water					403	ng/l	
Normal value for fres	h water sedi	ment				49,9	μg/kg	
Normal value for mar	ine water se	diment				4,99	μg/kg	
Normal value of STP	microorgani	sms				1,03	mg/l	
Health - Derived no-effe	ct level - DN	EL / DMEL						
	Effects or	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

			Pyrith	ione zinc				
Predicted no-effect conce	entration - Pl	NEC						
Normal value in fresh	water					90	ng/l	
Normal value in marin	ie water					90	ng/l	
Normal value for fresh	n water sedir	ment				0,0095	mg/kg/d	
Normal value for mari	ne water sed	diment				0,0095	mg/kg/d	
Normal value of STP	microorganis	sms				0,01	mg/l	
Normal value for the t	errestrial coi	mpartment				1,02	mg/kg/d	
Health - Derived no-effect	t level - DNE	EL / DMEL						
	Effects on	consumers			Effects on	workers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Skin								0,010 mg/kg bw/d

# 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.

# 8.2. Exposure controls

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.



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### SECTION 8. Exposure controls/personal protection

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#### 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.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

# SECTION 9. Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Appearance 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

Flash point

Auto-ignition temperature
pH

Not applicable
Not applicable
Not applicable
8.5-9

Kinematic viscosity

Dynamic viscosity

Solubility

Partition coefficient: n-octanol/water

Vapour pressure

Not available

Not available

Not available

Density and/or relative density 1,75
Relative vapour density Not available
Particle characteristics Not applicable

# 9.2. Other information

**Properties** 

# 9.2.1. Information with regard to physical hazard classes

Information not available

# 9.2.2. Other safety characteristics

 VOC (Directive 2004/42/EC) :
 0,85 % - 14,79 g/litre

 VOC (volatile carbon)
 0,26 % - 4,53 g/litre

 Explosive proporties
 pot applicable

Explosive properties not applicable Oxidising properties not applicable

# SECTION 10. Stability and reactivity

# 10.1. Reactivity

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

#### Ammonia

Corrodes: aluminium,iron,zinc,copper,copper alloys.

EPY 11.1.2 - SDS 1004.14



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# SECTION 10. Stability and reactivity

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#### FORMALDEHYDE

Decomposes under the effect of heat.

Acqueous solutions are stabilised with methanol but tend to polymerise over time.

#### 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.

#### Ammonia

Risk of explosion on contact with: strong acids,iodine.May react dangerously with: strong bases.

#### **FORMALDEHYDE**

Risk of explosion on contact with: nitromethane,nitrogen dioxide,hydrogen peroxide,phenoles,performic acid,nitric acid.May polymerise on contact with: strong oxidising agents,alkalis.May react dangerously with: hydrochloric acid,magnesium carbonate,sodium hydroxide,perchloric acid,aniline.Forms explosive mixtures with: air.

#### 10.4. Conditions to avoid

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

#### **FORMALDEHYDE**

Avoid exposure to: light, sources of heat, naked flames.

#### 10.5. Incompatible materials

#### Ammonia

Incompatible with: silver, silver salts, lead, lead salts, zinc, zinc salts, hydrochloric acid, nitric

acid,oleum,halogens,acrolein,nitromethane,acrylic acid.

#### **FORMALDEHYDE**

Incompatible with: acids,alkalis,ammonia,tannin,strong oxidants,phenoles,copper salts,silver,iron.

## 10.6. Hazardous decomposition products

### Ammonia

May develop: nitric oxide.

#### FORMALDEHYDE

When heated to decomposition releases: methanol, carbon monoxide.

## 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) of the mixture:

ATE (Oral) of the mixture:

ATE (Dermal) of the mixture:

Not classified (no significant component)

Not classified (no significant component)



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# SECTION 11. Toxicological information

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Ammonia

LD50 (Oral): 350 mg/kg Rat LC50 (Inhalation vapours): 2000 ppm/4h ratto

**FORMALDEHYDE** 

 LD50 (Dermal):
 270 mg/kg Rabbit

 LD50 (Oral):
 100 mg/kg Rat

 LC50 (Inhalation vapours):
 0,588 mg/l/4h Rat

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): 1008 mg/kg bw (rat)

STA (Dermal): 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)

LD50 (Oral): > 64 mg/kg bw 64-561 (rat) LC50 (Inhalation vapours): > 171 mg/m3 171-2360 (rat)

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

LD50 (Dermal): 2000 mg/kg bw (rat)

LD50 (Oral): > 490 mg/kg bw 490-670 (rat)

Pyrithione zinc

LD50 (Oral): 221 mg/kg LC50 (Inhalation vapours): 0,14 mg/l/4h

## 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.

Contains:

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

Respiratory sensitization

Information not available

Skin sensitization

Information not available

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

## REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation



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SECTION 11. Toxicological information

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Information not available

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

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

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

Ammonia

47 mg/l/96h Channa punctata LC50 - for Fish EC50 - for Crustacea 20 mg/l/48h Daphnia magna

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 µg/l 190-330 > 7 µg/l 7-160 EC50 - for Crustacea EC50 - for Algae / Aquatic Plants > 6,3 µg/l 6,3-27,3 Chronic NOEC for Fish 46,4 µg/l 35 days Chronic NOEC for Crustacea > 111 µg/l 11.1-1050

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

LC50 - for Fish > 2,15 mg/l 2,15-22 EC50 - for Crustacea > 2,9 mg/l 2,9-2,94 > 70 µg/l 70-150 EC50 - for Algae / Aquatic Plants Chronic NOEC for Algae / Aquatic Plants > 40,3 µg/l 40-55

12.2. Persistence and degradability

Ammonia

Degradability: information not available

FORMALDEHYDE

Solubility in water 55000 mg/l

Rapidly degradable



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# SECTION 12. Ecological information

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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

FORMALDEHYDE

Partition coefficient: n-octanol/water 0,35 BCF < 1

Pyrithione zinc

BCF 1,4

terbutryn

Partition coefficient: n-octanol/water 3,19

BCF 103 calcolato

12.4. Mobility in soil

**FORMALDEHYDE** 

Partition coefficient: soil/water 1,202

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 ≥ 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. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

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





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SECTION 14. Transport information ... / >:

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

# SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU:

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product Point

3 - 40

Contained substance
Point 75

Point 72 FORMALDEHYDE

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

Not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

VOC (Directive 2004/42/EC) :

Coatings for exterior walls of mineral substrate.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 1: Low hazard to waters

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

# SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Carc. 1B Carcinogenicity, category 1B
Muta. 2 Germ cell mutagenicity, category 2
Repr. 1B Reproductive toxicity, category 1B

Acute Tox. 1 Acute toxicity, category 1



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# **BIOCOMPACT**

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### SECTION 16. Other information

Acute Tox. 2 Acute toxicity, category 2 Acute Tox. 3 Acute toxicity, category 3

STOT RE 1 Specific target organ toxicity - repeated exposure, category 1

Skin Corr. 1B Skin corrosion, category 1B
Eye Dam. 1 Serious eye damage, category 1

.../>>

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Skin Sens. 1 Skin sensitization, category 1

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H350 May cause cancer.

H341 Suspected of causing genetic defects.
H360D May damage the unborn child.

H330 Fatal if inhaled.

H310 Fatal in contact with skin. H301 Toxic if swallowed.

H372 Causes damage to organs through prolonged or repeated exposure.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.
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.
H412 Harmful to aquatic life with long lasting effects.

EUH208 Contains <name of sensitising substance>. May produce an allergic reaction.

#### 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



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### SECTION 16. Other information

- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament

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- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 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)
- 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 / 04 / 08 / 09 / 10 / 11 / 12 / 15 / 16.