



NATUR ECO BLANCO + BP
Code: 05034BLANCO

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SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1	PRODUCT IDENTIFIER: NATUR ECO BLANCO + BP Code: 05034BLANCO
1.2	<p>RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:</p> <p><u>Intended uses (main technical functions):</u> [] Industrial [X] Professional [X] Consumers Matte coating for interior and exterior walls and ceilings, water-based.</p> <p><u>Sectors of use:</u> Professional uses (SU22). Consumer uses (SU21).</p> <p><u>Uses advised against:</u> This product is not recommended for any use or sector of use (industrial, professional or consumer) other than those previously listed as 'Intended or identified uses'.</p> <p><u>Restrictions on manufacture, placing on market and use, according to Annex XVII of Regulation (EC) No. 1907/2006:</u> Not restricted.</p>
1.3	<p>DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:</p> <p>ARTIC INDUSTRIAL QUÍMICA, S.A. Ctra. de Gerb, 51-73 - 25600 - BALAGUER (Lleida) Phone: (+34) 902 431250 - Fax: (+34) 973 445045 <u>E-mail address of the person responsible for the Safety Data Sheet:</u> info@articsa.net</p>
1.4	EMERGENCY TELEPHONE NUMBER: (+34) 973 450717 (9:00-13:00 / 15:00-18:00 h.) (working hours)

SECTION 2 : HAZARDS IDENTIFICATION

2.1

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:
Classification of mixtures is carried out in accordance with the following principles: a) when data (tests) for the classification of mixtures are available, generally is carried out based on these data, b) in the absence of data (tests) for mixtures are generally used interpolation or extrapolation methods of assessing the risk, using the available data for mixtures similarly classified, and c) in the absence of tests and information which would allow to apply interpolation or extrapolation techniques, methods are used to classify risk assessment based on the data of the individual components in the mixture.

Classification in accordance with Regulation (EU) No. 1272/2008-2020/217 (CLP):
Aquatic Chronic 3:H412

Danger class	Classification of the mixture	Cat.	Routes of exposure	Target organs	Effects
Physicochemical: Not classified	Aquatic Chronic 3:H412	c)	Cat.3	-	-
Human health: Not classified					
Environment:					

Full text of hazard statements mentioned is indicated in section 16.

Note: When in section 3 a range of percentages is used, the health and environmental hazards describe the effects of the highest concentration of each component, but below the maximum value.

2.2

LABEL ELEMENTS:
This product does not require pictograms, in accordance with Regulation (EU) No. 1272/2008-2020/217 (CLP)

Hazard statements: H412	Harmful to aquatic life with long lasting effects.
Precautionary statements: P101 P102 P103 P273-P501a	If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. Avoid release to the environment. Dispose of contents/container in accordance with local regulations.
Supplementary statements: EUH208	Contains 1,2-benzisothiazol-3(2H)-one, mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1). May produce an allergic reaction.

[Substances that contribute to classification:](#)
None.

Note: This product does not apply by spraying (hazardous respirable droplets may not be formed).



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SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1	SUBSTANCES: Not applicable (mixture).		
3.2	MIXTURES: This product is a mixture. Chemical description: Mixture of pigments, extenders, resins and additives in aqueous media. HAZARDOUS INGREDIENTS: Substances taking part in a percentage higher than the exemption limit:		
		< 0,5 % Alcohols, C12-C14(even numbered), ethoxylated(2) CAS: 68439-50-9, EC: 500-213-3 CLP: Warning: Aquatic Acute 1:H400 (M=1) Aquatic Chronic 3:H412	Autoclassified < REACH
		< 0,025 % 1,2-benzisothiazol-3(2H)-one CAS: 2634-33-5, EC: 220-120-9 REACH: Exempt (biocide) CLP: Danger: Acute Tox. (oral) 4:H302 Skin Irrit. 2:H315 Eye Dam. 1:H318 Skin Sens. 1A:H317 Aquatic Acute 1:H400 (M=1)	Index No. 613-088-00-6 < CLP00
		< 0,0030 % Pyrrhione zinc CAS: 13463-41-7, EC: 236-671-3 CLP: Danger: Acute Tox. (inh.) 3:H331 Acute Tox. (oral) 3:H301 Eye Dam. 1:H318 Aquatic Acute 1:H400 (M=100) Aquatic Chronic 1:H410 (M=10)	Autoclassified < REACH
		< 0,0020 % Silver chloride CAS: 7783-90-6, EC: 232-033-3 CLP: Warning: Met. Corr. 1:H290 Aquatic Acute 1:H400 (M=1000) Aquatic Chronic 1:H410 (M=1000)	Autoclassified < REACH
		< 0,0015 % Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) CAS: 55965-84-9, List No. 611-341-5 REACH: Exempt (biocide) CLP: Danger: Acute Tox. (inh.) 2H330 Acute Tox. (skin) 2:H310 Acute Tox. (oral) 3:H301 Skin Corr. 1C:H314 Eye Dam. 1:H318 Skin Sens. 1A:H317 Aquatic Acute 1:H400 (M=100) Aquatic Chronic 1:H410 (M=100) EUH071	(Note B) Index No. 613-167-00-5 < ATP13
	Impurities: Does not contain other components or impurities which will influence the classification of the product.		
	Stabilizers: None		
	Reference to other sections: For more information on hazardous ingredients, see sections 8, 11, 12 and 16.		
	SUBSTANCES OF VERY HIGH CONCERN (SVHC): List updated by ECHA on 25/06/2020. Substances SVHC subject to authorisation, included in Annex XIV of Regulation (EC) no. 1907/2006: None Substances SVHC candidate to be included in Annex XIV of Regulation (EC) no. 1907/2006: None		
	PERSISTENT,BIOACCUMULABLE AND TOXIC,PBT,OR VERY PERSISTENT AND VERY BIOACCUMULABLE VPvB SUBSTANCES: Does not contain substances that fulfil the PBT/vPvB criteria.		



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SECTION 4 : FIRST AID MEASURES

4.1	DESCRIPTION OF FIRST-AID MEASURES:  Symptoms may occur after exposure, so that in case of direct exposure to the product, when in doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.		
	Route of exposure	Symptoms and effects, acute and delayed	Description of first-aid measures
	<u>Inhalation:</u>	It is not expected that symptoms will occur under normal conditions of use.	Should there be any symptoms, transfer the person affected to the open air.
	<u>Skin:</u>	Skin contact may cause slight redness.	Remove contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser. Do not use solvents or thinners.
	<u>Eyes:</u>	Contact with the eyes produces redness.	Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water, holding the eyelids apart. If irritation persists, consult a physician.
	<u>Ingestion:</u>	If swallowed in high doses, may cause gastrointestinal disturbances.	If swallowed, seek immediate medical attention. Do not induce vomiting, due to the risk of aspiration. Keep the patient at rest.
4.2	MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED: The main symptoms and effects are indicated in sections 4.1 and 11.1		
4.3	INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED: <u>Notes to physician:</u> Treatment should be directed at the control of symptoms and the clinical condition of the patient. <u>Antidotes and contraindications:</u> There is no specific antidote.		

SECTION 5 : FIRE-FIGHTING MEASURES

5.1	EXTINGUISHING MEDIA: In case of fire in the surroundings, all extinguishing agents are allowed.
5.2	SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE As consequence of combustion or thermal decomposition, hazardous products may be produced: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products may be a hazard to health.
5.3	ADVICE FOR FIREFIGHTERS: <u>Special protective equipment:</u> Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, protective glasses or face masks and boots. If the fire-proof protective equipment is not available or is not being used, combat fire from a sheltered position or from a safe distance. The standard EN469 provides a basic level of protection for chemical incidents. <u>Other recommendations:</u> Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1	PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: Avoid direct contact with this product.
6.2	ENVIRONMENTAL PRECAUTIONS: Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sewages, inform the appropriate authorities in accordance with local regulations.
6.3	METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP: Contain and mop up spills with absorbent materials (sawdust, earth, sand, vermiculite, diatomaceous earth, etc.). Avoid use of solvents. Keep the remains in a closed container.
6.4	REFERENCE TO OTHER SECTIONS: For contact information in case of emergency, see section 1. For information on safe handling, see section 7. For exposure controls and personal protection measures, see section 8. For waste disposal, follow the recommendations in section 13.



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SECTION 7 : HANDLING AND STORAGE

- 7.1 PRECAUTIONS FOR SAFE HANDLING:
Comply with the existing legislation on health and safety at work.
General recommendations:
Avoid any type of leakage or escape. Keep the container tightly closed.
Recommendations for the prevention of fire and explosion risks:
The product is not liable to ignite, deflagrate or explode, and does not sustain the combustion reaction by oxygen from air in the environment in which it is, so it is not included in the scope of Directive 2014/34/EU concerning equipment and protective systems intended for use in potentially explosive atmospheres. Also they are not applicable the provisions of the ITC MIE BT-29 on the detailed requirements for electrical installations in locals with risk of fire or explosion.
Recommendations for the prevention of toxicological risks:
Do not eat, drink or smoke in application and drying areas. After handling, wash hands with soap and water. For exposure controls and personal protection measures, see section 8.
Recommendations for the prevention of environmental contamination:
Avoid any spillage in the environment. Pay special attention to the cleaning water. In the case of accidental spillage, follow the instructions indicated in section 6.
- 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:
Forbid the entry to unauthorized persons. Keep out of reach of children. Keep away from sources of heat. If possible, avoid direct contact with sunlight. In order to avoid leakages, the containers, after use, should be closed carefully and placed in a vertical position. For more information, see section 10.
Class of storage : According to current legislation.
Maximum storage period : 24. months
Temperature interval : min: 5. °C, max: 40. °C (recommended).
Incompatible materials:
Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.
Type of packaging:
According to current legislation.
Limit quantity (Seveso III): Directive 2012/18/EU:
Not applicable (product for non industrial use).

- 7.3 SPECIFIC END USES:
For the use of this product particular recommendations apart from that already indicated are not available.



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SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1

CONTROL PARAMETERS:

If a product contains ingredients with exposure limits, may be necessary a personnel monitoring, work place or biological, to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to EN689, EN14042 and EN482 standard concerning methods for assessing the exposure by inhalation to chemical agents, and exposure to chemical and biological agents. Reference should be also made to national guidance documents for methods for the determination of dangerous substances.

OCCUPATIONAL EXPOSURE LIMIT VALUES (TLV)

AGCIH 2019	Year	TLV-TWA ppm	mg/m3	TLV-STEL ppm	mg/m3	Remarks
1,2-benzisothiazol-3(2H)-one		-	0.10	-	0.060 C	Recommended
Silver chloride	1981	-	0.010	-	-	As Ag
Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)		-	0.080	-	0.23	Recommended

TLV - Threshold Limit Value, TWA - Time Weighted Average, STEL - Short Term Exposure Limit.
C - Ceiling value: The concentration that should not be exceeded during any part of the working exposure.

BIOLOGICAL LIMIT VALUES:

Not available

DERIVED NO-EFFECT LEVEL (DNEL):

Derived no-effect level (DNEL) is a level of exposure that is considered safe, derived from toxicity data according to specific guidances included in REACH. DNEL values may differ from a occupational exposure limit (OEL) for the same chemical. OEL values may come recommended by a particular company, a government regulatory agency or an organization of experts. Although considered protective of health, the OEL values are derived by a process different of REACH.

<u>Derived no-effect level, workers:</u> - Systemic effects, acute and chronic: 1,2-benzisothiazol-3(2H)-one Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)	<u>DNEL Inhalation</u> mg/m3 - (a) - (c) - (a) - (c)	<u>DNEL Cutaneous</u> mg/kg bw/d - (a) - (c) - (a) - (c)	<u>DNEL Oral</u> mg/kg bw/d - (a) - (c) - (a) - (c)
	<u>DNEL Inhalation</u> mg/m3 - (a) - (c) - (a) - (c)	<u>DNEL Cutaneous</u> mg/cm2 - (a) - (c) - (a) - (c)	<u>DNEL Eyes</u> mg/cm2 - (a) - (c) - (a) - (c)
<u>Derived no-effect level, general population:</u> - Systemic effects, acute and chronic: 1,2-benzisothiazol-3(2H)-one Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)	<u>DNEL Inhalation</u> mg/m3 - (a) - (c) - (a) - (c)	<u>DNEL Cutaneous</u> mg/kg bw/d - (a) - (c) - (a) - (c)	<u>DNEL Oral</u> mg/kg bw/d - (a) - (c) - (a) - (c)
	<u>DNEL Inhalation</u> mg/m3 - (a) - (c) - (a) - (c)	<u>DNEL Cutaneous</u> mg/cm2 - (a) - (c) - (a) - (c)	<u>DNEL Eyes</u> mg/cm2 - (a) - (c) - (a) - (c)

(-) - DNEL not available (without data of registration REACH).



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PREDICTED NO-EFFECT CONCENTRATION (PNEC):

Predicted no-effect concentration, aquatic organisms:

- Fresh water, marine water and intermittent release:
1,2-benzisothiazol-3(2H)-one
Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)

PNEC Fresh water
mg/l

-
-

PNEC Marine
mg/l

-
-

PNEC Intermittent
mg/l

-
-

- Wastewater treatment plants (STP) and sediments in fresh- and marine water:

1,2-benzisothiazol-3(2H)-one
Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)

PNEC STP
mg/l

-
-

PNEC Sediments
mg/kg dw/d

-
-

PNEC Sediments
mg/kg dw/d

-
-

Predicted no-effect concentration, terrestrial organisms:

- Air, soil and effects for predators and humans:
1,2-benzisothiazol-3(2H)-one
Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)

PNEC Air
mg/m3

-
-

PNEC Soil
mg/kg dw/d

-
-

PNEC Oral
mg/kg dw/d

-
-

(-) - PNEC not available (without data of registration REACH).

8.2

EXPOSURE CONTROLS:

ENGINEERING MEASURES:



Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these measures are not sufficient to maintain concentrations of particulates and vapours below the Occupational Exposure Limits, suitable respiratory protection must be worn.

Protection of respiratory system:

Protection of eyes and face: It is recommended to install water taps or sources with clean water close to the working area.

Protection of hands and skin: It is recommended to install water taps or sources with clean water close to the working area. Barrier creams may help to protect the exposed areas of the skin. Barrier creams should not be applied once exposure has occurred.

OCCUPATIONAL EXPOSURE CONTROLS: Regulation (EU) No. 2016/425:

As a general measure on prevention and safety in the work place, we recommend the use of a basic personal protection equipment (PPE), with the corresponding marking. For more information on personal protective equipment (storage, use, cleaning, maintenance, type and characteristics of the PPE, protection class, marking, category, CEN norm, etc.), you should consult the informative brochures provided by the manufacturers of PPE.

Mask:

No.

Safety goggles:



Safety goggles with suitable lateral protection (EN166). Clean daily and disinfect at regular intervals in accordance with the instructions of the manufacturer.

Face shield:

No.

Gloves:



Use suitable protective rubber or PVC gloves (EN374), when the product is handled for prolonged periods. When short contact with the product is expected, use gloves with a protection level 2 or higher should be used, with a breakthrough time >30 min. The breakthrough time of the selected glove material should be in accordance with the pretended period of use. There are several factors (for example, temperature), they do in practice the period of use of a protective gloves resistant against chemicals is clearly lower than the established standard EN374. Do not use PVA gloves as PVA does not resist water. The gloves should be immediately replaced when any sign of degradation is noted.

Boots:

No.

Apron:

No.

Clothing:

No.

Thermal hazards:

Not applicable (the product is handled at room temperature).

ENVIRONMENTAL EXPOSURE CONTROLS:

Avoid any spillage in the environment.

Spills on the soil: Prevent contamination of soil.

Spills in water: Do not allow to escape into drains, sewers or water courses.

- Water Management Act: This product contains the following substances included in the list of priority substances in the field of water policy under Directive 2000/60/EC-2013/39/EU: Diurón.

Emissions to the atmosphere: Not applicable.



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SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1	<p><u>INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:</u></p> <p><u>Appearance</u></p> <ul style="list-style-type: none"> - Physical state : Liquid. - Colour : White. - Odour : Characteristic. <p><u>pH-value</u></p> <ul style="list-style-type: none"> - pH : 8.5 ± 0.5 at 23°C <p><u>Change of state</u></p> <ul style="list-style-type: none"> - Initial boiling point : > 100* °C at 760 mmHg <p><u>Density</u></p> <ul style="list-style-type: none"> - Relative density : 1.59* at 20/4°C Relative water <p><u>Stability</u></p> <ul style="list-style-type: none"> - Decomposition temperature : Not available <p><u>Viscosity:</u></p> <ul style="list-style-type: none"> - Dynamic viscosity : 45. ± 5. Poise 23°C <p><u>Volatility:</u></p> <ul style="list-style-type: none"> - Vapour pressure : 17.5* mmHg at 20°C - Vapour pressure : 12.3* kPa at 50°C <p><u>Solubility(ies)</u></p> <ul style="list-style-type: none"> - Solubility in water : Miscible. - Partition coefficient: n-octanol/water : Not applicable (mixture). <p><u>Flammability:</u></p> <ul style="list-style-type: none"> - Flash point : Inflammable °C - Upper/lower flammability or explosive limits : Not available - Autoignition temperature : Not applicable (do not sustain combustion). <p><u>Explosive properties:</u> Not available.</p> <p><u>Oxidizing properties:</u> Not classified as oxidizing product.</p> <p>*Estimated values based on the substances composing the mixture.</p>
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9.2	<p><u>OTHER INFORMATION:</u></p> <ul style="list-style-type: none"> - Solids : 66.4 % Weight <p>The values indicated do not always coincide with product specifications. The data for the product specifications can be found in the corresponding technical data sheet. For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12.</p>
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SECTION 10 : STABILITY AND REACTIVITY

10.1	<p><u>REACTIVITY:</u></p> <p><u>Corrosivity to metals:</u> It is not corrosive to metals.</p> <p><u>Pyrophorical properties:</u> It is not pyrophoric.</p>
10.2	<p><u>CHEMICAL STABILITY:</u></p> <p>Stable under recommended storage and handling conditions.</p>
10.3	<p><u>POSSIBILITY OF HAZARDOUS REACTIONS:</u></p> <p>Possible dangerous reaction with acids.</p>
10.4	<p><u>CONDITIONS TO AVOID:</u></p> <p><u>Heat:</u> Keep away from sources of heat.</p> <p><u>Light:</u> If possible, avoid direct contact with sunlight.</p> <p><u>Air:</u> The product is not affected by exposure to air, but should not be left the containers open.</p> <p><u>Pressure:</u> Not relevant.</p> <p><u>Shock:</u> The product is not sensitive to shocks, but as a recommendation of a general nature should be avoided bumps and rough handling to avoid dents and breakage of packaging, especially when the product is handled in large quantities, and during loading and download operations.</p>
10.5	<p><u>INCOMPATIBLE MATERIALS:</u></p> <p>Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.</p>
10.6	<p><u>HAZARDOUS DECOMPOSITION PRODUCTS:</u></p> <p>As consequence of thermal decomposition, hazardous products may be produced: carbon monoxide.</p>



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SECTION 11 : TOXICOLOGICAL INFORMATION

No experimental toxicological data on the preparation is available. The toxicological classification for these mixture has been carried out by using the conventional calculation method of the Regulation (EU) No. 1272/2008-2020/217 (CLP).

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:ACUTE TOXICITY:Dose and lethal concentrations

for individual ingredients :

Alcohols, C12-C14(even numbered), ethoxylated(2)

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

Pyriothione zinc

Silver chloride

Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)

LD50 (OECD 401)

mg/kg bw oral

> 2000. Rat

1020. Rat

269. Rat

5110. Rat

75. Rat

LD50 (OECD 402)

mg/kg bw cutaneous

> 2000. Rat

> 2000. Rat

3380. Rat

140. Rat

LC50 (OECD 403)mg/m³ 4h inhalation

> 2050. Rat

> 1030. Rat

> 1230. Rat

Estimates of acute toxicity (ATE)

for individual ingredients :

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

Pyriothione zinc

Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)

ATE

mg/kg bw oral

1020.

269.

75.

ATE

mg/kg bw cutaneous

-

-

140.

ATEmg/m³ 4h inhalation

-

3000.*

1230.

(*) - Point estimates of acute toxicity corresponding to the classification category (see GHS/CLP Table 3.1.2). These values are designed to be used in the calculation of the ATE for classification of a mixture based on its components and do not represent test results.

(-) - The components that are assumed to have no acute toxicity at the upper threshold of category 4 for the corresponding exposure route are ignored.

No observed adverse effect level

Not available

Lowest observed adverse effect level

Not available

INFORMATION ON LIKELY ROUTES OF EXPOSURE: Acute toxicity:

Routes of exposure	Acute toxicity	Cat.	Main effects, acute and/or delayed	Criteria
<u>Inhalation:</u> Not classified	ATE > 20000 mg/m ³	-	Not classified as a product with acute toxicity if inhaled (based on available data, the classification criteria are not met).	GHS/CLP 3.1.3.6.
<u>Skin:</u> Not classified	ATE > 2000 mg/kg bw	-	Not classified as a product with acute toxicity in contact with skin (based on available data, the classification criteria are not met).	GHS/CLP 3.1.3.6.
<u>Eyes:</u> Not classified	Not available	-	Not classified as a product with acute toxicity by eye contact (lack of data).	GHS/CLP 1.2.5.
<u>Ingestion:</u> Not classified	ATE > 2000 mg/kg bw	-	Not classified as a product with acute toxicity if swallowed (based on available data, the classification criteria are not met).	GHS/CLP 3.1.3.6.

GHS/CLP 3.1.3.6: Classification of mixtures based on ingredients of the mixture (additivity formula).

CORROSION / IRRITATION / SENSITISATION :

Danger class	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
<u>Respiratory corrosion/irritation:</u> Not classified	-	-	Not classified as a product corrosive or irritant by inhalation (based on available data, the classification criteria are not met).	GHS/CLP 1.2.6. 3.8.3.4.
<u>Skin corrosion/irritation:</u> Not classified	-	-	Not classified as a product corrosive or irritant in contact with skin (based on available data, the classification criteria are not met).	GHS/CLP 3.2.3.3.
<u>Serious eye damage/irritation:</u> Not classified	-	-	Not classified as a product corrosive or irritant in contact with eyes (based on available data, the classification criteria are not met).	GHS/CLP 3.3.3.3.
<u>Respiratory sensitisation:</u> Not classified	-	-	Not classified as a product sensitising by inhalation (based on available data, the classification criteria are not met).	GHS/CLP 3.4.3.3.
<u>Skin sensitisation:</u> Not classified	-	-	Not classified as a product sensitising by skin contact (based on available data, the classification criteria are not met).	GHS/CLP 3.4.3.3.

GHS/CLP 3.2.3.3: Classification of the mixture when data are available for all components or only for some components.

GHS/CLP 3.3.3.3: Classification of the mixture when data are available for all components or only for some components.

GHS/CLP 3.4.3.3: Classification of the mixture when data are available for all components or only for some components.



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ASPIRATION HAZARD:

Danger class	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
<u>Aspiration hazard:</u> Not classified	-	-	Not classified as a product hazardous by aspiration (based on available data, the classification criteria are not met).	GHS/CLP 3.10.3.3.

GHS/CLP 3.10.3.3: Classification of the mixture when data are available for all components or only for some components.

SPECIFIC TARGET ORGANS TOXICITY (STOT): Single exposure (SE) and/or Repeated exposure (RE):

Not classified as a dangerous product for target organs (based on available data, the classification criteria are not met).

CMR EFFECTS:

Carcinogenic effects: It is not considered as a carcinogenic product.

Genotoxicity: It is not considered as a mutagenic product.

Toxicity for reproduction: Does not harm fertility. Does not harm the unborn child.

Effects via lactation: Not classified as a hazardous product for children breast-fed.

DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE:

Routes of exposure: Not available.

Short-term exposure: Not available.

Long-term or repeated exposure: Not available.

INTERACTIVE EFFECTS:

Not available.

INFORMATION ABOUT TOXICOKINETICS, METABOLISM AND DISTRIBUTION:

Dermal absorption: Not available.

Basic toxicokinetics: Not available.

ADDITIONAL INFORMATION:

Not available.

SECTION 12 : ECOLOGICAL INFORMATION

No experimental ecotoxicological data on the preparation as such is available. The ecotoxicological classification for these mixture has been carried out by using the conventional calculation method of the Regulation (EU) No. 1272/2008-2020/217 (CLP).

12.1

TOXICITY:

<u>Acute toxicity in aquatic environment</u> for individual ingredients : Alcohols, C12-C14(even numbered), ethoxylated(2) 1,2-benzisothiazol-3(2H)-one Pyriothione zinc Silver chloride Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)	<u>LC50</u> (OECD 203) mg/l-96hours 0.88 Fishes > 2.1 Fishes 0.0026 Fishes 0.0012 Fishes 0.19 Fishes	<u>EC50</u> (OECD 202) mg/l-48hours 0.53 Daphnia > 2.9 Daphnia 0.0082 Daphnia 0.00022 Daphnia 0.16 Daphnia	<u>EC50</u> (OECD 201) mg/l-72hours 0.41 Algae 0.11 Algae 0.0030 Algae 0.0052 Algae
<u>No observed effect concentration</u> 1,2-benzisothiazol-3(2H)-one Pyriothione zinc Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)	<u>NOEC</u> (OECD 210) mg/l-28days 0.0012 Fishes 0.020 Fishes	<u>NOEC</u> (OECD 211) mg/l-21days 0.0020 Daphnia 0.011 Daphnia	<u>NOEC</u> (OECD 201) mg/l-72hours 0.040 Algae 0.0020 Algae 0.00049 Algae
<u>Lowest observed effect concentration</u> Pyriothione zinc	<u>LOEC</u> (OECD 210) mg/l-28days 0.0028 Fishes	<u>LOEC</u> (OECD 211) mg/l-21days 0.0042 Daphnia	<u>LOEC</u> (OECD 201) mg/l-72hours

ASSESSMENT OF AQUATIC TOXICITY:

Aquatic toxicity	Cat.	Main hazards to the aquatic environment	Criteria
<u>Acute aquatic toxicity:</u> Not classified	-	Not classified as a hazardous product with acute toxicity to aquatic life (based on available data, the classification criteria are not met).	GHS/CLP 4.1.3.5.5.3.
<u>Chronic aquatic toxicity:</u>	Cat.3	HARMFUL: Harmful to aquatic life with long lasting effects.	GHS/CLP 4.1.3.5.5.4.

CLP 4.1.3.5.5.3: Classification of a mixture for acute hazards, based on summation of classified components.

CLP 4.1.3.5.5.4: Classification of a mixture for chronic (long term) hazards, based on summation of classified components.

12.2

PERSISTENCE AND DEGRADABILITY:

Not available.

<u>Aerobic biodegradation</u> for individual ingredients : Alcohols, C12-C14(even numbered), ethoxylated(2) 1,2-benzisothiazol-3(2H)-one Pyriothione zinc Silver chloride Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)	<u>DQO</u> mgO2/g	<u>%DBO/DQO</u> 5 days 14 days 28 days 95. 39. 0. 55.	<u>Biodegradability</u> Easy Not easy Not easy Not easy Not easy
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Note: Biodegradability data correspond to an average of data from various bibliographic sources.



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12.3

BIOACCUMULATIVE POTENTIAL:

Not available.

Bioaccumulation

for individual ingredients :

Alcohols, C12-C14(even numbered), ethoxylated(2)
1,2-benzisothiazol-3(2H)-one
Pyriothione zinc
Silver chloride
Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)

log Pow

6.10
0.640
0.900
0.540
0.750

BCF
L/kg

168. (calculated)
3.2 (calculated)
3.2 (calculated)
3.2 (calculated)
3.2 (calculated)

Potential

High
Unlikely, low
Unlikely, low
Unlikely, low
Unlikely, low

12.4

MOBILITY IN SOIL:

Not available.

Mobility

for individual ingredients :

Alcohols, C12-C14(even numbered), ethoxylated(2)
1,2-benzisothiazol-3(2H)-one
Pyriothione zinc
Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)

log Poc

5.71
1.05
0.180
0.450

Constant of Henry
Pa·m³/mol 20°C**Potential**

High
Unlikely, low
Unlikely, low
Unlikely, low

12.5

RESULTS OF PBT AND VPV/BASSEMENT: Annex XIII of Regulation (EC) no. 1907/2006:

Does not contain substances that fulfil the PBT/VPvB criteria.

12.6

OTHER ADVERSE EFFECTS:

Ozone depletion potential: Not dangerous for the ozone layer. Does not contain substances included in Annex I to Regulation (EC) 2037/2000-1005/2009 on substances that deplete the ozone layer.

Photochemical ozone creation potential: It does not contribute to the formation of ozone in the troposphere.

Earth global warming potential: In case of fire or incineration liberates CO₂.

Endocrine disrupting potential: No.

SECTION 13 : DISPOSAL CONSIDERATIONS

13.1

WASTE TREATMENT METHODS: Directive 2008/98/EC-Regulation (EU) no. 1357/2014:

Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose at an authorised waste collection point. Waste should be handled and disposed in accordance with current local and national regulations. For exposure controls and personal protection measures, see section 8.

Disposal of empty containers: Directive 94/62/EC-2015/720/EU, Decision 2000/532/EC-2014/955/EU:

Emptied containers and packaging should be disposed in accordance with currently local and national regulations. The classification of packaging as hazardous waste will depend on the degree of emptying of the same, being the holder of the residue responsible for their classification, in accordance with Chapter 15 01 of Decision 2000/532/EC, and forwarding to the appropriate final destination. With contaminated containers and packaging, adopt the same measures as for the product in itself.

Procedures for neutralising or destroying the product:

Authorised landfill in accordance with local regulations.



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SECTION 14 : TRANSPORT INFORMATION

14.1 UN NUMBER: Not applicable

14.2 UN PROPER SHIPPING NAME: Not applicable

14.3 TRANSPORT HAZARD CLASS(ES):

Transport by road (ADR 2019) and
Transport by rail (RID 2019):
Not regulated

Transport by sea (IMDG 39-18):
Not regulated

Transport by air (ICAO/IATA 2020):
Not regulated

Transport by inland waterways (ADN):
Not regulated

14.4 PACKING GROUP:
Not regulated

14.5 ENVIRONMENTAL HAZARDS:
Not applicable.

14.6 SPECIAL PRECAUTIONS FOR USER:
Ensure that persons transporting the product know what to do in case of accident or spill. Always transport in closed containers that are upright and secure.

14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:
Not applicable.

SECTION 15 : REGULATORY INFORMATION

15.1 EU SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC:

The regulations applicable to this product generally are listed throughout this Safety Data Sheet.

Restrictions on manufacture, placing on market and use: See section 1.2

Tactile warning of danger: Not applicable (the classification criteria are not met).

Child safety protection: Not applicable (the classification criteria are not met).

VOC information on the label:
Contains VOC max. 0.1 g/l - The limit value 2004/42/CE-IIA cat. a) for the product ready for use is VOC max. 30. g/l (2010).

OTHER REGULATIONS:

Control of the risks inherent in major accidents (Seveso III): See section 7.2

Other local legislations:
The receiver should verify the possible existence of local regulations applicable to the chemical.

15.2 CHEMICAL SAFETY ASSESSMENT:

A chemical safety assessment has not been carried out for this mixture.



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SECTION 16 : OTHER INFORMATION

TEXT OF THE PHRASES AND NOTES REFERENCED IN SECTIONS 2 AND/OR 3:

Hazard statements according to the Regulation (EU) No. 1272/2008-2020/217 (CLP), Annex III:

H290 May be corrosive to metals. H301 Toxic if swallowed. H302 Harmful if swallowed. H310 Fatal in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H330 Fatal if inhaled. H331 Toxic if inhaled. 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. EUH071 Corrosive to the respiratory tract.

Notes related to the identification, classification and labelling of the substances:

Note B : Some substances are placed on the market in aqueous solutions at various concentrations and these solutions require different classification and labelling since the hazards vary at different concentrations.

EVALUATION OF THE INFORMATION ON THE DANGER OF MIXTURES: See sections 9.1, 11.1 and 12.1.

ADVICES ON ANY TRAINING APPROPRIATE FOR WORKERS:

It is recommended for all staff that will handle this product to carry out a basic training in occupational risk and prevention, in order to provide understanding and interpretation of Safety Data Sheets and labelling of products as well.

MAIN LITERATURE REFERENCES AND SOURCES FOR DATA:

- European Chemicals Agency: ECHA, <http://echa.europa.eu/>
- Access to European Union Law: <http://eur-lex.europa.eu/>
- Threshold Limit Values, (AGCIH, 2018).

ABBREVIATIONS AND ACRONYMS:

List of abbreviations and acronyms that can be used (but not necessarily used) in this Safety Data Sheet:

- REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals of the United Nations.
- CLP: European regulation on Classification, Labelling and Packaging of substances and chemical mixtures.
- EINECS: European Inventory of Existing Commercial Chemical Substances.
- ELINCS: European List of Notified Chemical Substances.
- CAS: Chemical Abstracts Service (Division of the American Chemical Society).
- UVCB: Substances of Unknown or Variable composition, complex reaction products or biological materials.
- SVHC: Substances of Very High Concern.
- PBT: Persistent, bioaccumulable and toxic substances.
- vPvB: Very persistent and very bioaccumulable substances.
- DNEL: Derived No-Effect Level (REACH).
- PNEC: Predicted No-Effect Concentration (REACH).
- LD50: Lethal dose, 50 percent.
- LC50: Lethal concentration, 50 percent.
- UN: United Nations Organisation.
- ADR: European agreement concerning the international carriage of dangerous goods by road.
- RID: Regulations concerning the international transport of dangerous goods by rail.
- IMDG: International Maritime code for Dangerous Goods.
- IATA: International Air Transport Association.
- ICAO: International Civil Aviation Organization.

SAFETY DATA SHEET REGULATIONS:

Safety Data Sheet in accordance with Article 31 of Regulation (EC) No. 1907/2006 (REACH) and Annex of Regulation (EU) No. 2015/830.

HISTORIC:

Version: 1

Date of compilation:

05/02/2021

The information of this Safety Data Sheet, is based on the present state of knowledge and on current UE and national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified, without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this Safety Data Sheet is meant as a description of the safety requirements of the product and it is not to be considered as a guarantee of the product's properties.