

	CLP_TINTE ACQUA AMARILLO VIVO Code: 7024	
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SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1	PRODUCT IDENTIFIER: CLP_TINTE ACQUA AMARILLO VIVO Code: 7024
1.2	RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST: <u>Intended uses (main technical functions):</u> [] Industrial [X] Professional [X] Consumers Pigmented paste for tinting. <u>Sectors of use:</u> Professional uses (SU22). Consumer uses (SU21). <u>Uses advised against:</u> None. As there is not classified as dangerous, this product can be used in ways other than the identified uses, but all uses have to be consistent with the safety guidelines provided. <u>Restrictions on manufacture, placing on market and use, according to Annex XVII of Regulation (EC) No. 1907/2006:</u> Not restricted.
1.3	DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET: PINTURAS ISAVAL, S.L. c/Velluters, Parcela 2-14 - P.I.Casanova - E-46394 - Ribarrojad d Turia (Valencia) Phone: +34 96 1640001 - Fax: +34 96 1640002 <u>E-mail address of the person responsible for the Safety Data Sheet:</u> e-mail: atencioncliente@isaval.es
1.4	EMERGENCY TELEPHONE NUMBER: +34 96 1640001 (8:00-18:00 h.) (working hours)

SECTION 2 : HAZARDS IDENTIFICATION

2.1	CLASSIFICATION OF THE SUBSTANCE OR MIXTURE: This product is not classified as dangerous, in accordance with Regulation (EU) No. 1272/2008~2018/1480 (CLP) 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. Note: This product does not require a Safety Data Sheet according to the Regulation (EC) no. 2015/830. When used as recommended or under ordinary conditions, it should not present a physicochemical, health safety or environmental hazard. However, an MSDS can be provided as a courtesy in response to a customer request.
2.2	LABEL ELEMENTS: This product does not require pictograms, in accordance with Regulation (EU) No. 1272/2008~2018/1480 (CLP) <u>Hazard statements:</u> None. <u>Precautionary statements:</u> P102 Keep out of reach of children. P262 Do not get in eyes, on skin, or on clothing. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. <u>Supplementary statements:</u> 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. EUH210 Safety data sheet available on request. <u>Substances that contribute to classification:</u> None.
2.3	OTHER HAZARDS: Hazards which do not result in classification but which may contribute to the overall hazards of the mixture: <u>Other physicochemical hazards:</u> No other relevant adverse effects are known. <u>Other adverse human health effects:</u> Prolonged exposure to vapours may produce transient drowsiness. Prolonged contact may cause skin dryness. <u>Other negative environmental effects:</u> Does not contain substances that fulfil the PBT/PvB criteria.



CLP_TINTE ACQUA AMARILLO VIVO
Code: 7024

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES:

Not applicable (mixture).

3.2 MIXTURES:

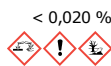
This product is a mixture.

Chemical description:

Pigment dispersion in aqueous media.

HAZARDOUS INGREDIENTS:

Substances taking part in a percentage higher than the exemption limit:



< 0,020 %

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

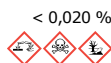
CAS: 2634-33-5 , EC: 220-120-9

REACH: Exempt (biocide)

Index No. 613-088-00-6

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)

< CLP00



< 0,020 %

Pyrithione zinc

CAS: 13463-41-7 , EC: 236-671-3

Autoclassified

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)

< REACH



< 0,001 %

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)

Index No. 613-167-00-5

CLP: Danger: Acute Tox. (inh.) 2:H330 | 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)

< 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, see sections 8, 11, 12 and 16.

SUBSTANCES OF VERY HIGH CONCERN (SVHC):

List updated by ECHA on 16/01/2020.

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.

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>	It is not expected that symptoms will occur under normal conditions of use.	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>	It is not expected that symptoms will occur under normal conditions of use.	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:

Notes to physician: Treatment should be directed at the control of symptoms and the clinical condition of the patient.

Antidotes and contraindications: Specific antidote not known.



CLP_TINTE ACQUA AMARILLO VIVO
Code: 7024

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, nitrogen oxides. Exposure to combustion or decomposition products may be a hazard to health.
- 5.3 **ADVICE FOR FIREFIGHTERS:**
Special protective equipment: 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.
Other recommendations: 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.

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:
Not applicable.
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:
It is not considered a danger to the environment. 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.
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.



CLP_TINTE ACQUA AMARILLO VIVO
Code: 7024

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 2018	Year	TLV-TWA		TLV-STEL		Remarks
		ppm	mg/m3	ppm	mg/m3	
1,2-benzisothiazol-3(2H)-one		-	0.10	-	0.060 C	Recommended
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.

Derived no-effect level, workers: - Systemic effects, acute and chronic: 1,2-benzisothiazol-3(2H)-one Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)	DNEL Inhalation		DNEL Cutaneous		DNEL Oral	
	mg/m3		mg/kg bw/d		mg/kg bw/d	
	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)
	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)
Derived no-effect level, workers: - Local effects, acute and chronic: 1,2-benzisothiazol-3(2H)-one Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)	DNEL Inhalation		DNEL Cutaneous		DNEL Eyes	
	mg/m3		mg/m2		mg/m2	
	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)
	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)
Derived no-effect level, general population: - Systemic effects, acute and chronic: 1,2-benzisothiazol-3(2H)-one Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)	DNEL Inhalation		DNEL Cutaneous		DNEL Oral	
	mg/m3		mg/kg bw/d		mg/kg bw/d	
	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)
	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)
Derived no-effect level, general population: - Local effects, acute and chronic: 1,2-benzisothiazol-3(2H)-one Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)	DNEL Inhalation		DNEL Cutaneous		DNEL Eyes	
	mg/m3		mg/m2		mg/m2	
	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)
	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)

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

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		PNEC Marine		PNEC Intermittent	
	mg/l		mg/l		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		PNEC Sediments		PNEC Sediments	
	mg/l		mg/kg dw/d		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		PNEC Soil		PNEC Oral	
	mg/m3		mg/kg dw/d		mg/kg dw/d	
	-		-		-	
	-		-		-	

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



CLP_TINTE ACQUA AMARILLO VIVO
Code: 7024

8.2

EXPOSURE CONTROLS:ENGINEERING MEASURES:

Provide adequate ventilation.

Protection of respiratory system:Protection of eyes and face:Protection of hands and skin: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.

<u>Mask:</u>	No, unless ventilation is insufficient.
<u>Safety goggles:</u>	Advisable.
<u>Face shield:</u>	No.
<u>Gloves:</u>	Advisable.
<u>Boots:</u>	No.
<u>Apron:</u>	No.
<u>Clothing:</u>	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: Terbutrina.

Emissions to the atmosphere: Not applicable.



CLP_TINTE ACQUA AMARILLO VIVO
Code: 7024

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1	<p>INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES :</p> <p><u>Appearance</u></p> <ul style="list-style-type: none"> - Physical state : Liquid. - Colour : Yellow. - Odour : Characteristic - Odour threshold : Not available (mixture). <p><u>pH-value</u></p> <ul style="list-style-type: none"> - pH : 8. at 20°C <p><u>Change of state</u></p> <ul style="list-style-type: none"> - Melting point : Not available - Initial boiling point : > 100* °C at 760 mmHg <p><u>Density</u></p> <ul style="list-style-type: none"> - Vapour density : Not available - Relative density : # 1.056* 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 : 20. Poise 20°C <p><u>Volatility:</u></p> <ul style="list-style-type: none"> - Evaporation rate : Not available (lack of data). - Vapour pressure : Not available <p><u>Solubility(ies)</u></p> <ul style="list-style-type: none"> - Solubility in water: : Miscible - Liposolubility : Not available (mixture untested). - Partition coefficient: n-octanol/water : Not applicable (mixture). <p><u>Flammability:</u></p> <ul style="list-style-type: none"> - Flash point : Not flammable - Upper/lower flammability or explosive limits : Not available - Autoignition temperature : Not applicable (do not sustain combustion). <p><u>Explosive properties:</u></p> <p>Not available.</p> <p><u>Oxidizing properties:</u></p> <p>Not classified as oxidizing product.</p> <p>*Estimated values based on the substances composing the mixture.</p>
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9.2	<p>OTHER INFORMATION:</p> <ul style="list-style-type: none"> - Heat of combustion : # 613* Kcal/kg - Solids : # 11.1 % Volume <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>REACTIVITY:</p> <p><u>Comosivity to metals:</u> It is not corosive to metals.</p> <p><u>Pyrophorical properties:</u> It is not pyrophoric.</p>
10.2	<p>CHEMICAL STABILITY:</p> <p>Stable under recommended storage and handling conditions.</p>
10.3	<p>POSSIBILITY OF HAZARDOUS REACTIONS:</p> <p>Possible dangerous reaction with oxidizing agents.</p>
10.4	<p>CONDITIONS TO AVOID:</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>INCOMPATIBLE MATERIALS:</p> <p>Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.</p>
10.6	<p>HAZARDOUS DECOMPOSITION PRODUCTS:</p> <p>No product of decomposition is dangerous if stored and handled properly.</p>



CLP_TINTE ACQUA AMARILLO VIVO
Code: 7024

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. 1272/2008~2018/1480 (CLP).

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY:

Dose and lethal concentrations

for individual ingredients :

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

Pyrithione zinc

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

LD50 (OECD 401)

mg/kg bw oral

1020. Rat

269. Rat

75. Rat

LD50 (OECD 402)

mg/kg bw cutaneous

> 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-benzothiazol-3(2H)-one

Pyrithione 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.

ATE

mg/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.



CLP_TINTE ACQUA AMARILLO VIVO
Code: 7024

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: May irritate the eyes and skin.

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. 1272/2008~2018/1480 (CLP).

12.1	TOXICITY:			
	Acute toxicity in aquatic environment for individual ingredients : 1,2-benzothiazol-3(2H)-one Pyrethione zinc Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)	LC50 (OECD 203) mg/l-96hours > 2.1 Fishes 0.0026 Fishes 0.19 Fishes	EC50 (OECD 202) mg/l-48hours > 2.9 Daphnia 0.0082 Daphnia 0.16 Daphnia	EC50 (OECD 201) mg/l-72hours 0.11 Algae 0.0030 Algae 0.0052 Algae
	No observed effect concentration 1,2-benzothiazol-3(2H)-one Pyrethione zinc Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)	NOEC (OECD 210) mg/l-28days 0.0012 Fishes 0.020 Fishes	NOEC (OECD 211) mg/l-21days 0.0020 Daphnia 0.011 Daphnia	NOEC (OECD 201) mg/l-72hours 0.040 Algae 0.0020 Algae 0.00049 Algae
	Lowest observed effect concentration Pyrethione zinc	LOEC (OECD 210) mg/l-28days 0.0028 Fishes	LOEC (OECD 211) mg/l-21days 0.0042 Daphnia	LOEC (OECD 201) mg/l-72hours
	ASSESSMENT OF AQUATIC TOXICITY:			
	Aquatic toxicity	Cat.	Main hazards to the aquatic environment	Criteria
	Acute aquatic toxicity: 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.
	Chronic aquatic toxicity: Not classified	-	Not classified as a dangerous product with chronic toxicity to aquatic life with long lasting effects (based on available data, the classification criteria are not met).	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.			
	Aerobic biodegradation for individual ingredients : 1,2-benzothiazol-3(2H)-one Pyrethione zinc Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)	DQO mgO2/g	%DBO/DQO 5 days 14 days 28 days 39. 55.	Biodegradability Not easy Not easy Not easy
	Note: Biodegradability data correspond to an average of data from various bibliographic sources			
12.3	BIOACCUMULATIVE POTENTIAL: Not available.			
	Bioaccumulation for individual ingredients : 1,2-benzothiazol-3(2H)-one Pyrethione zinc Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)	log Pow 0.640 0.900 0.750	BCF L/kg 3.2 (calculated) 3.2 (calculated) 3.2 (calculated)	Potential Not available Not available Not available
12.4	MOBILITY IN SOIL: Not available.			
	Mobility for individual ingredients : 1,2-benzothiazol-3(2H)-one Pyrethione zinc Mixture CIT EC 247-500-7 MIT EC 220-239-6 (3:1)	log Koc 1.05 0.180 0.450	Constant of Henry Pa·m3/mol 20°C	Potential Not available Not available Not available

In accordance with Regulation (EC) No. 1907/2006 and Regulation (EU) No. 2015/830

	CLP_TINTE ACQUA AMARILLO VIVO Code: 7024
12.5	<p>RESULTS OF PBT AND VPVB ASSESSMENT: Annex XIII of Regulation (EC) no. 1907/2006: Does not contain substances that fulfil the PBT/vPvB criteria.</p>
12.6	<p>OTHER ADVERSE EFFECTS: Ozone depletion potential: # <i>Not applicable</i>. Photochemical ozone creation potential: Not available. Earth global warming potential: Not available. Endocrine disrupting potential: Not available.</p>
SECTION 13 : DISPOSAL CONSIDERATIONS	
13.1	<p>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.</p> <p>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.</p> <p>Procedures for neutralising or destroying the product: Authorised landfill in accordance with local regulations.</p>
SECTION 14 : TRANSPORT INFORMATION	
14.1	<p>UN NUMBER: Not applicable</p>
14.2	<p>UN PROPER SHIPPING NAME: Not applicable</p>
14.3	<p>TRANSPORT HAZARD CLASS(ES):</p> <p>Transport by road (ADR 2019) and Transport by rail (RID 2019): Not regulated</p> <p>Transport by sea (IMDG 39-18): Not regulated</p> <p>Transport by air (ICAO/IATA 2020): Not regulated</p> <p>Transport by inland waterways (ADN): Not regulated</p>
14.4	<p>PACKING GROUP: Not regulated</p>
14.5	<p>ENVIRONMENTAL HAZARDS: Not applicable (not classified as hazardous for the environment).</p>
14.6	<p>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. Ensure adequate ventilation.</p>
14.7	<p>TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE: # <i>Not applicable</i>.</p>
SECTION 15 : REGULATORY INFORMATION	
15.1	<p>EU SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC: The regulations applicable to this product generally are listed throughout this Safety Data Sheet.</p> <p>Restrictions on manufacture, placing on market and use: See section 1.2</p> <p>Tactile warning of danger: Not applicable (the classification criteria are not met).</p> <p>Child safety protection: Not applicable (the classification criteria are not met).</p> <p>OTHER REGULATIONS:</p> <p>Control of the risks inherent in major accidents (Seveso III): See section 7.2</p> <p>Other local legislations: The receiver should verify the possible existence of local regulations applicable to the chemical.</p>
15.2	<p>CHEMICAL SAFETY ASSESSMENT: A chemical safety assessment has not been carried out for this mixture.</p>



CLP_TINTE ACQUA AMARILLO VIVO
Code: 7024

SECTION 16 : OTHER INFORMATION

TEXT OF THE PHRASES AND NOTES REFERENCED IN SECTIONS 2 AND/OR 3:Hazard statements according the Regulation (EU) No. 1272/2008~2018/1480 (CLP), Annex III:

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. 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/>
- Industrial Solvents Handbook, Ibert Melan (Noyes Data Co., 1970).
- Threshold Limit Values, (ACGIH, 2017).

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:Revision:

Version: 10 29/05/2018
Version: 11 08/04/2020

Changes since previous Safety Data Sheet:

Legislative, contextual, numerical, methodological and normative changes since the previous version of the present Safety Data Sheet are identified by a red-italic hash (#).

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.