

ΕN

## Safety Data Sheet

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

1. Product identifier				
Product name		VI INTERIOR PAI	NT	
2. Relevant identified uses	s of the substance o	r mixture and uses ad	lvised against	
Intended use			-	
	f the extent data an	Waterbased emul		
.3. Details of the supplier o	of the safety data sho	eet		
Name Full a dalar a		VITEX S.A.		
Full address District and Country		IMEROS TOPOS 19300 ASP	PROPYRGOS	(ATTIKI)
District and Obanary			EECE	
		Tel. (003	80) 2105589400	
		Fax (003	30) 2105597859	
e-mail address of the comp responsible for the Safety I		vitevleh@vitev.er		
responsible for the Salety I		vitexlab@vitex.gr		
Supplier:		VITEX S.A		
.4. Emergency telephone n	umber			
For urgent inquiries refer to	)	(0030) 210558940	0	
		· · ·	7 Emergency number G	reece 24/7
		1401 Cyprus		
	bstance or mixture ad as hazardous pursu t contains hazardous	substances in concent	rations such as to be dee	1272/2008 (CLP). clared in section no. 3, it requires a safety data
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### SECTION 2. Hazards identification .../>>

<u>VOC (Directive 2004/42/EC) :</u> Interior matt walls and ceilings (Gloss < 25@60°). VOC given in g/litre of product in a ready-to-use condition : Limit value:

10,00 30,00

#### 2.3. Other hazards

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

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

## **SECTION 3. Composition/information on ingredients**

#### 3.2. Mixtures

Contains:

Identificatio	n	x = Conc. %	Classification (EC) 1272/2008 (CLP)
ETHYLENE	GLYCOL		
INDEX	603-027-00-1	0,1 ≤ x < 0,5	Acute Tox. 4 H302
EC	203-473-3		ATE Oral: 500 mg/kg
CAS	107-21-1		
1,2-benzisc	othiazol-3(2H)-one		
INDEX	613-088-00-6	$0 \le x \le 0,0359$	Acute Tox. 2 H330, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315,
			Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC	220-120-9		Skin Sens. 1A H317: ≥ 0,036%
CAS	2634-33-5		ATE Oral: 500 mg/kg, ATE Inhalation vapours: 0,501 mg/l
2-methyl-2l	H-isothiazol-3-one		
INDEX		0 ≤ x < 0,00149	Acute Tox. 2 H330, Acute Tox. 3 H301, Acute Tox. 3 H311, Skin Corr. 1B
			H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=10,
			Aquatic Chronic 1 H410 M=1, EUH071
EC	220-239-6		Skin Sens. 1A H317: ≥ 0,0015%
CAS	2682-20-4		ATE Oral: 100 mg/kg, ATE Dermal: 300 mg/kg, ATE Inhalation vapours: 0,501
			mg/l, ATE Inhalation mists/powders: 0,051 mg/l
5-Chloro-2-	methyl- 3(2H)-isothi	azolone mixture with 2	-Methyl- 3(2H)-isothiazolone (3:1)
INDEX	613-167-00-5	0 ≤ x < 0,00149	Acute Tox. 2 H310, Acute Tox. 2 H330, Acute Tox. 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
EC			Skin Irrit. 2 H315: ≥ 0,06%, Skin Sens. 1A H317: ≥ 0,0015%, Eye Dam. 1 H318:
			≥ 0,6%, Eye Irrit. 2 H319: ≥ 0,06%
CAS	55965-84-9		ATE Oral: 100 mg/kg, ATE Dermal: 50,001 mg/kg, ATE Inhalation vapours:
			0,501 mg/l, ATE Inhalation mists/powders: 0,051 mg/l

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

## **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

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

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

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

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

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

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

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

Information not available



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## **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.

### **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

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

#### 7.2. Conditions for safe storage, including any incompatibilities

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

#### 7.3. Specific end use(s)

Information not available



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## **SECTION 8. Exposure controls/personal protection**

#### 8.1. Control parameters

Regulatory ref	erences:	
BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)
CZE	Česká Republika	NAŘÍZENÍ VLÁDY ze dne 10. května 2021, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci
DEU	Deutschland	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ ''σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία''»
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006
SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov
GBR EU	United Kingdom OEL EU	EH40/2005 Workplace exposure limits (Fourth Edition 2020) Directive (EU) 2022/431; 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.
	TLV-ACGIH	ACGIH 2023

				ETHYLENE GLY	COL	
reshold Limit	Value					
Туре	Country	TWA/8h		STEL/15mi	n	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	52	20	104	40	SKIN
TLV	CZE	50	19,4	100	38,8	SKIN
AGW	DEU	26	10	52	20	SKIN 11
MAK	DEU	26	10	52	20	SKIN
VLEP	FRA	52	20	104	40	SKIN
TLV	GRC	125	50	125	50	
AK	HUN	52	20	104	40	SKIN
GVI/KGVI	HRV	52	20	104	40	SKIN
TLV	ROU	52	20	104	40	SKIN
NPEL	SVK	52	20	104	40	SKIN
WEL	GBR	52	20	104	40	SKIN
OEL	EU	52	20	104	40	SKIN
TLV-ACGIH			25		50	
TLV-ACGIH				10		INHAL

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

#### 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.

HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time. The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use. SKIN PROTECTION



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#### SECTION 8. Exposure controls/personal 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 ISO 16321).

RESPIRATORY PROTECTION

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. Use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387).

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

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

### **SECTION 9.** Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	viscous liquid	
Colour	white	
Odour	odourless	
Melting point / freezing point	not available	
Initial boiling point	not available	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
	> 93 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
H	8-9	
Kinematic viscosity	1200-1700 mm²/s	Method:Theoretical Calculation from Dynamic
		Viscosity
Dynamic viscosity	105-115 KU	Method:ASTM D 562
		Temperature: = 25 °C
Solubility	not available	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	1,45-1,49 kg/l	Method:ISO 2811
Relative vapour density	not available	
Particle characteristics	not applicable	

#### 9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Information not available

## **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

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

#### ETHYLENE GLYCOL

In the air absorbs moisture.Decomposes at temperatures above 200°C/392°F.

#### 10.2. Chemical stability

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



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### SECTION 10. Stability and reactivity ...

#### 10.3. Possibility of hazardous reactions

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

#### ETHYLENE GLYCOL

Risk of explosion on contact with: perchloric acid.May react dangerously with: chlorosulphuric acid,sodium hydroxide,sulphuric acid,phosphorus pentasulphide,chromium (III) oxide,chromyl chloride,potassium perchlorate,potassium dichromate,sodium peroxide,aluminium.Forms explosive mixtures with: air.

#### 10.4. Conditions to avoid

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

#### ETHYLENE GLYCOL

Avoid exposure to: sources of heat, naked flames.

10.5. Incompatible materials

Information not available

#### 10.6. Hazardous decomposition products

ETHYLENE GLYCOL

May develop: hydroxyacetaldehyde,glyoxal,acetaldehyde,methane,carbon monoxide,hydrogen.

### **SECTION 11. Toxicological information**

#### 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

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

ETHYLENE GLYCOL WORKERS: inhalation; contact with the skin. POPULATION: inhalation of ambient air; contact with the skin of products containing the substance.

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

#### ETHYLENE GLYCOL

Ingestion initially stimulates the central nervous system; later replaced by a phase of depression. There may be kidney damage, with anuria and uremia. Over-exposure symptoms are: vomiting, drowsiness, difficulty in breathing, convulsions. The lethal dose for humans is approx. 1.4 ml/kg.

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture: ATE (Oral) of the mixture:	Not classified (no significant component) Not classified (no significant component)
ATE (Dermal) of the mixture:	Not classified (no significant component)
ETHYLENE GLYCOL	
LD50 (Dermal):	9530 mg/kg Rabbit
LD50 (Oral):	> 2000 mg/kg Rat
1,2-benzisothiazol-3(2H)-one	
LD50 (Dermal):	> 1,221 mg/kg 1,2-benziosothiazolin-3-one
LD50 (Oral):	> 2,175 mg/kg 1,2-benziosothiazolin-3-one
LC50 (Inhalation vapours):	0,5 mg/l

#### **SKIN CORROSION / IRRITATION**

Does not meet the classification criteria for this hazard class



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### SECTION 11. Toxicological information ... / >>

### SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

#### **RESPIRATORY OR SKIN SENSITISATION**

May produce an allergic reaction. Contains: 5-Chloro-2-methyl- 3(2H)-isothiazolone mixture with 2-Methyl- 3(2H)-isothiazolone (3:1) 2-methyl-2H-isothiazol-3-one 1,2-benzisothiazol-3(2H)-one

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

ETHYLENE GLYCOL

Available studies have shown no carcinogenic potential. In a carcinogenicity study lasting two years, carried out by the US National Toxicology Program (NTP), in which ethylene glycol was administered in the feed, "no evidence of carcinogenic activity" in male and female B6C3F1 mice was observed (NTP, 1993).

### **REPRODUCTIVE TOXICITY**

Does not meet the classification criteria for this hazard class

**STOT - SINGLE EXPOSURE** 

Does not meet the classification criteria for this hazard class

#### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

#### **ASPIRATION HAZARD**

Does not meet the classification criteria for this hazard class Viscosity: 1200-1700 mm²/s

#### 11.2. Information on other hazards

12.2. Persistence and degradability

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

### **SECTION 12. Ecological information**

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

#### 12.1. Toxicity

5-Chloro-2-methyl- 3(2H)-isothiazolone mixture w	ith 2-Methyl- 3(2H)-isothiazolone (3:1)
EC50 - for Crustacea	> 0,018 mg/l/48h
Chronic NOEC for Fish	0,5 mg/l
1,2-benzisothiazol-3(2H)-one	
LC50 - for Fish	> 2,18 mg/l/96h 1,2-benziosothiazolin-3-one Oncorhynchus mykiss OECD Test
	Guideline 203
EC50 - for Crustacea	> 2,94 mg/l/48h 1,2-benziosothiazolin-3-one Daphnia magna OECD Test Guideline
	202
EC50 - for Algae / Aquatic Plants	> 0,11 mg/l/72h 1,2-benziosothiazolin-3-one Pseudokirchneriella subcapitata OECD
	Test Guideline 201



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### SECTION 12. Ecological information ... / >

		1
ETHYLENE GLYCOL Solubility in water Rapidly degradable	1000 - 10000 mg/l	
12.3. Bioaccumulative potential		
2-methyl-2H-isothiazol-3-one Partition coefficient: n-octanol/water	0,32 Log Kow	
ETHYLENE GLYCOL Partition coefficient: n-octanol/water	-1,36	
12.4. Mobility in soil		
	Solubility in water Rapidly degradable <b>12.3. Bioaccumulative potential</b> 2-methyl-2H-isothiazol-3-one Partition coefficient: n-octanol/water ETHYLENE GLYCOL Partition coefficient: n-octanol/water	Solubility in water       1000 - 10000 mg/l         Rapidly degradable       1000 - 10000 mg/l         12.3. Bioaccumulative potential       2-methyl-2H-isothiazol-3-one         Partition coefficient: n-octanol/water       0,32 Log Kow         ETHYLENE GLYCOL       -1,36

Information not available

#### 12.5. Results of PBT and vPvB assessment

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

#### 12.6. Endocrine disrupting properties

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

#### 12.7. Other adverse effects

Information not available

## **SECTION 13. Disposal considerations**

#### 13.1. Waste treatment methods

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

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

### **SECTION 14. Transport information**

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

#### 14.1. UN number or ID number

not applicable

#### 14.2. UN proper shipping name

not applicable

#### 14.3. Transport hazard class(es)

not applicable

#### 14.4. Packing group

not applicable

#### 14.5. Environmental hazards

not applicable



ΕN

## SECTION 14. Transport information

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
Contained substance
Point 75

None

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  $\geq$  than 0,1%.

Substances subject to authorisation (Annex XIV REACH) None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012: None

<u>Substances subject to the Rotterdam Convention:</u> None

Substances subject to the Stockholm Convention: None

Healthcare controls Information not available

<u>VOC (Directive 2004/42/EC) :</u> Interior matt walls and ceilings (Gloss < 25@60°).

#### 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:

Acute toxicity, category 2 Acute toxicity, category 3 Acute toxicity, category 4 Skin corrosion, category 1B Skin corrosion, category 1C Serious eye damage, category 1 Skin irritation, category 2 Skin sensitization, category 1A Hazardous to the aquatic environment, acute toxicity, category 1 Hazardous to the aquatic environment, chronic toxicity, category 1 Fatal in contact with skin. Fatal if inhaled. Toxic if swallowed.
Fatal if inhaled.
Toxic if swallowed. Toxic in contact with skin. Harmful if swallowed.
Causes severe skin burns and eye damage. Causes serious eye damage. Causes skin irritation.



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#### SECTION 16. Other information ... / >>

H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.
EUH210	Safety data sheet available on request.
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- 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
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 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) 2020/217 (XV Ap. CLP)
- 20. Delegated Regulation (UE) 2020/1102 (XV Alp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVI Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVII Atp. CLP)
- 23. Delegated Regulation (UE) 2023/707
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)



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## SECTION 16. Other information ... / >>

- 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: 03 / 08 / 09 / 11 / 12 / 16.