

## Safety Data Sheet

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

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

#### 1.1. Product identifier

Code: P0013  
Product name: LERICI BIANCO

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

Intended use: Finitura per pareti in pasta

#### 1.3. Details of the supplier of the safety data sheet

Name: Licata S.p.A.  
Full address: Via De Gasperi,155  
District and Country: 92024 Canicatti (AG) Italia  
Tel.: +39 0922 856088  
Fax: +39 0922 831427  
e-mail address of the competent person responsible for the Safety Data Sheet: controllo-qualita@licataspa.it

#### 1.4. Emergency telephone number

For urgent inquiries refer to:  
NHS111in England: 111  
NHS24in Scotland: 111  
NHS Direct in Wales: 111 or 0845 4647  
In an emergency, if the patient has collapsed or is not breathing properly, call 999

### SECTION 2. Hazards identification

#### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.

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

Hazard classification and indication:

Hazardous to the aquatic environment, chronic toxicity, category 2 H411 Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

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

Hazard pictograms:



Signal words: --

Hazard statements:

H411 Toxic to aquatic life with long lasting effects.  
EUH208 Contains: 4,5-dicloro-2-ottil-2H-isotiazol-3-one  
REACTION MASS OF 5-CHLORO-2- METHYL-2H-ISOTHIAZOL-3-ONE AND  
2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)

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P0013 - LERICI BIANCO			
SECTION 2. Hazards identification ... / >>			
May produce an allergic reaction.			
Precautionary statements:			
P273	Avoid release to the environment.		
P391	Collect spillage.		
Contains:			
2-OCTYL-2H-ISOTHIAZOL-3-ONE			
2.3. Other hazards			
On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.			
The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.			
SECTION 3. Composition/information on ingredients			
3.2. Mixtures			
Contains:			
Identification			
x = Conc. %			
Classification (EC) 1272/2008 (CLP)			
TITANIUM DIOXIDE			
INDEX	1,5 ≤ x < 2		EUH210, EUH212
EC	236-675-5		
CAS	13463-67-7		
REACH Reg.	01-2119489379-17-0013		
ETHANEDIOL			
INDEX	603-027-00-1		0,5 ≤ x < 0,6
EC	203-473-3		
CAS	107-21-1		
QUARTZ			
INDEX	238-878-4		0,05 ≤ x < 0,1
EC	14808-60-7		
CAS	14808-60-7		
2-OCTYL-2H-ISOTHIAZOL-3-ONE			
INDEX	613-112-00-5		0,0025 ≤ x < 0,025
EC	247-761-7		
CAS	26530-20-1		
REACTION MASS OF 5-CHLORO-2- METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)			
INDEX	613-167-00-5		0 < x < 0,0015
EC	611-341-5		
CAS	55965-84-9		
REACH Reg.	01-2120764691-48		
4,5-dicloro-2-ottil-2H-isotiazol-3-one			
INDEX	613-335-00-8		0 < x < 0,0015
EC	264-843-8		
CAS	64359-81-5		
The full wording of hazard (H) phrases is given in section 16 of the sheet.			

EPY 11.7.2 - SDS 1004.14

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

No effects requiring implementation of special first aid measures are expected. The following information represents practical indications of correct behaviour in the event of contact with a chemical product, even if not hazardous.

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice.

Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

INHALATION: Remove victim to fresh air, away from the accident scene. Get medical advice/attention.

#### Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

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

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

If symptoms occur, whether acute or delayed, consult a doctor.

#### Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

## SECTION 5. Firefighting measures

### 5.1. Extinguishing media

#### SUITABLE EXTINGUISHING EQUIPMENT

Choose the most appropriate extinguishing equipment for the specific case.

#### 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

The product is neither flammable nor combustible.

### 5.3. Advice for firefighters

#### 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.

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SECTION 6. Accidental release measures ... / >>			
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			
SECTION 8. Exposure controls/personal protection			
8.1. Control parameters			
Regulatory references:			
DEU	Deutschland	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58	
ESP	España	Límites de exposición profesional para agentes químicos en España 2023	
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021	
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)	
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81	
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)	
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)	
EU	OEL EU	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	
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ETHANEDIOL	
Chemical structure	
Chemical formula	$\text{C}_2\text{H}_6\text{O}_2$
Relative molecular mass	62
Boiling point	197.3 °C
Melting point	-12.9 °C
Density	1.113 g cm <sup>-3</sup>
Refractive index	1.4130
Flash point	11 °C
Auto-ignition temperature	499 °C
Limiting oxygen index	21.0
Heat of combustion	1189 kJ mol <sup>-1</sup>
Heat of formation	-1191 kJ mol <sup>-1</sup>
Heat of vaporization	42.3 kJ mol <sup>-1</sup>
Heat of fusion	5.62 kJ mol <sup>-1</sup>
Heat of solidification	-5.62 kJ mol <sup>-1</sup>
Heat of condensation	-42.3 kJ mol <sup>-1</sup>
Heat of evaporation	42.3 kJ mol <sup>-1</sup>
Heat of sublimation	1189 kJ mol <sup>-1</sup>
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Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	26	10	52	20	SKIN
MAK	DEU	26	10	52	20	SKIN
VLA	ESP	52	20	104	40	SKIN
VLEP	FRA	52	20	104	40	SKIN
GVI/KGVI	HRV	52	20	104	40	SKIN
VLEP	ITA	52	20	104	40	SKIN
MV	SVN	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

Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
MAK	DEU	0,3		2,4		RESP Hinweis
VLA	ESP	10				
VLEP	FRA	10				
GVI/KGVI	HRV	10				INHAL
GVI/KGVI	HRV	4				RESP
WEL	GBR	10				INHAL
WEL	GBR	4				RESP
TLV-ACGIH		2.5				RESP

Normal value in fresh water	0,127	mg/l
Normal value in marine water	1	mg/l
Normal value for fresh water sediment	1000	mg/kg
Normal value for marine water sediment	100	mg/kg
Normal value for water, intermittent release	0,61	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the food chain (secondary poisoning)	1667	mg/kg
Normal value for the terrestrial compartment	100	mg/kg

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation							10 mg/m <sup>3</sup>	

Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	0,05		0,1		INHAL
AGW	DEU	0,05		0,1		SKIN
MAK	DEU	0,05		0,1		INHAL
MAK	DEU	0,05		0,1		SKIN

Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
VLA	ESP		0,05			RESP
VLEP	FRA	0,1				RESP
GVI/KGVI	HRV	0,1				
VLEP	ITA	0,1				RESP
MV	SVN	0,15				RESP
OEL	EU	0,1				RESP
TLV-ACGIH		0,025				RESP



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SECTION 9. Physical and chemical properties ... / >>			
pH	11		
Kinematic viscosity	not available		
Solubility	soluble		
Partition coefficient: n-octanol/water	not available		
Vapour pressure	not available		
Density and/or relative density	not available		
Relative vapour density	not available		
Particle characteristics	not applicable		
9.2. Other information			
9.2.1. Information with regard to physical hazard classes			
Flammable liquids			
Sustained combustibility	does not sustain combustion		
9.2.2. Other safety characteristics			
VOC (Directive 2010/75/EU)	0,94 %		
VOC (volatile carbon)	0,24 %		
SECTION 10. Stability and reactivity			
10.1. Reactivity			
There are no particular risks of reaction with other substances in normal conditions of use.			
ETHANEDIOL			
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.			
10.3. Possibility of hazardous reactions			
No hazardous reactions are foreseeable in normal conditions of use and storage.			
ETHANEDIOL			
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.			
ETHANEDIOL			
Avoid exposure to: sources of heat,naked flames.			
10.5. Incompatible materials			
Information not available			
10.6. Hazardous decomposition products			
ETHANEDIOL			
May develop: hydroxyacetaldehyde,glyoxal,acetaldehyde,methane,carbon monoxide,hydrogen.			
SECTION 11. Toxicological information			
In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.			
It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.			
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008			

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**SECTION 11. Toxicological information** ... / >>

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

**ETHANEDIOL**

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

**ETHANEDIOL**

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:

Not classified (no significant component)

ATE (Oral) of the mixture:

Not classified (no significant component)

ATE (Dermal) of the mixture:

Not classified (no significant component)

**4,5-dicloro-2-ottil-2H-isotiazol-3-one**

LD50 (Oral):

567 mg/kg

LC50 (Inhalation mists/powders):

0,16 mg/l/4h

**ETHANEDIOL**

LD50 (Dermal):

9530 mg/kg Rabbit

LD50 (Oral):

> 2000 mg/kg Rat

**TITANIUM DIOXIDE**

LD50 (Dermal):

> 10000 mg/kg Coniglio

LD50 (Oral):

> 5000 mg/kg Rat

LC50 (Inhalation vapours):

> 6,82 mg/l/4h Ratto

**2-OCTYL-2H-ISOTHIAZOL-3-ONE**

LD50 (Dermal):

311 mg/kg

LD50 (Oral):

125 mg/kg Rat

LC50 (Inhalation mists/powders):

0,27 mg/l/4h Rat

**REACTION MASS OF 5-CHLORO-2- METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)**

LD50 (Dermal):

87,12 mg/kg Rabbit

LD50 (Oral):

64 mg/kg Rat

LC50 (Inhalation mists/powders):

0,33 mg/l/4h Rat

**CARBONATO DI CALCIO**

LD50 (Oral):

6450 mg/kg

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:



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SECTION 11. Toxicological information ... / >>			
4,5-dicloro-2-ottil-2H-isotiazol-3-one REACTION MASS OF 5-CHLORO-2- METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)			
Skin sensitization			
Ponted principle with reference n ° S5146_R2 and S5147_R2 pursuant to article 9, paragraph 4, and sections 3.4.3.1/3.4.3.2 of the Annex of the CLP (EC) regulation 1272/2008			
GERM CELL MUTAGENICITY			
Does not meet the classification criteria for this hazard class			
CARCINOGENICITY			
Does not meet the classification criteria for this hazard class			
ETHANEDIOL 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			
11.2. Information on other hazards			
Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.			
SECTION 12. Ecological information			
This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it has negative effects on the aquatic environment.			
12.1. Toxicity			
4,5-dicloro-2-ottil-2H-isotiazol-3-one			
LC50 - for Fish	0,0078 mg/l/96h Oncorhynchus mykiss		
EC50 - for Crustacea	0,0097 mg/l/48h Daphnia magna		
EC50 - for Algae / Aquatic Plants	0,025 mg/l/72h Desmodesmus subspicatus		
Chronic NOEC for Fish	0,00047 mg/l Brachydanio rerio		
Chronic NOEC for Crustacea	0,0004 mg/l Daphnia magna		
Chronic NOEC for Algae / Aquatic Plants	0,015 mg/l Desmodesmus subspicatus		
TITANIUM DIOXIDE			
LC50 - for Fish	> 1000 mg/l/96h		
EC50 - for Crustacea	> 1000 mg/l/48h Pulce d'acqua grande		
EC50 - for Algae / Aquatic Plants	> 10000 mg/l/72h Alghe cloroficee		
EC10 for Algae / Aquatic Plants	12,7 mg/l/72h		
Chronic NOEC for Algae / Aquatic Plants	5600 mg/l		
2-OCTYL-2H-ISOTHIAZOL-3-ONE			
LC50 - for Fish	0,036 mg/l/96h Oncorhynchus mykiss		
EC50 - for Crustacea	0,00129 mg/l/48h Navicula peliculosa		
EC50 - for Algae / Aquatic Plants	0,084 mg/l/72h Desmodesmus subspicatus		
EC10 for Crustacea	0,000224 mg/l/48h		
		EPY 11.7.2 - SDS 1004.14	

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EC10 for Algae / Aquatic Plants		0,000224 mg/l/72h Navicula pelliculosa	
Chronic NOEC for Fish		0,022 mg/l Oncorhynchus mykiss	
Chronic NOEC for Crustacea		0,002 mg/l Daphnia magna	
Chronic NOEC for Algae / Aquatic Plants		0,00068 mg/l Skeletonema costatum	
REACTION MASS OF 5-CHLORO-2- METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)			
LC50 - for Fish		0,19 mg/l/96h	
EC50 - for Crustacea		0,16 mg/l/48h Daphnia magna	
EC50 - for Algae / Aquatic Plants		0,037 mg/l/72h	
Chronic NOEC for Fish		0,0464 mg/l Danio rerio	
Chronic NOEC for Crustacea		0,1 mg/l Daphnia magna	
Chronic NOEC for Algae / Aquatic Plants		0,0012 mg/l	
12.2. Persistence and degradability			
4,5-dicloro-2-ottil-2H-isotiazol-3-one			
Rapidly degradable			
ETHANEDIOL			
Solubility in water		1000 - 10000 mg/l	
Rapidly degradable			
TITANIUM DIOXIDE			
NOT rapidly degradable			
2-OCTYL-2H-ISOTHIAZOL-3-ONE			
Solubility in water		500 mg/l	
NOT rapidly degradable			
QUARTZ			
Degradability: information not available			
REACTION MASS OF 5-CHLORO-2- METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)			
NOT rapidly degradable		<50%	
12.3. Bioaccumulative potential			
4,5-dicloro-2-ottil-2H-isotiazol-3-one			
Partition coefficient: n-octanol/water		4,4 Log Kow	
BCF		13	
ETHANEDIOL			
Partition coefficient: n-octanol/water		-1,36	
2-OCTYL-2H-ISOTHIAZOL-3-ONE			
Partition coefficient: n-octanol/water		2,92 Log Kow Metodo HPLC	
BCF		> 500 Ratto	
REACTION MASS OF 5-CHLORO-2- METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)			
Partition coefficient: n-octanol/water		< 0,71 Log Kow Metodo HPLC	
BCF		3,16	
12.4. Mobility in soil			
Information not available			
12.5. Results of PBT and vPvB assessment			
On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ 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.			
EPY 11.7.2 - SDS 1004.14			

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12.7. Other adverse effects			
Information not available			
SECTION 13. Disposal considerations			
13.1. Waste treatment methods			
Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.			
SECTION 14. Transport information			
The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.			
14.1. UN number or ID number			
not applicable			
14.2. UN proper shipping name			
not applicable			
14.3. Transport hazard class(es)			
not applicable			
14.4. Packing group			
not applicable			
14.5. Environmental hazards			
not applicable			
14.6. Special precautions for user			
not applicable			
14.7. Maritime transport in bulk according to IMO instruments			
Information not relevant			
SECTION 15. Regulatory information			
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture			
Seveso Category - Directive 2012/18/EU: E2			
Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006			
Product			
Point 3			
Contained substance			
Point 75			
Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors			
not applicable			
Substances in Candidate List (Art. 59 REACH)			
On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.			
Substances subject to authorisation (Annex XIV REACH)			

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None

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

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

**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:

<b>Acute Tox. 2</b>	Acute toxicity, category 2
<b>Acute Tox. 3</b>	Acute toxicity, category 3
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>STOT RE 2</b>	Specific target organ toxicity - repeated exposure, category 2
<b>Skin Corr. 1C</b>	Skin corrosion, category 1C
<b>Skin Corr. 1</b>	Skin corrosion, category 1
<b>Eye Dam. 1</b>	Serious eye damage, category 1
<b>Eye Irrit. 2</b>	Eye irritation, category 2
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>Skin Sens. 1A</b>	Skin sensitization, category 1A
<b>Aquatic Acute 1</b>	Hazardous to the aquatic environment, acute toxicity, category 1
<b>Aquatic Chronic 1</b>	Hazardous to the aquatic environment, chronic toxicity, category 1
<b>Aquatic Chronic 2</b>	Hazardous to the aquatic environment, chronic toxicity, category 2
<b>H310</b>	Fatal in contact with skin.
<b>H330</b>	Fatal if inhaled.
<b>H301</b>	Toxic if swallowed.
<b>H311</b>	Toxic in contact with skin.
<b>H302</b>	Harmful if swallowed.
<b>H373</b>	May cause damage to organs through prolonged or repeated exposure.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H318</b>	Causes serious eye damage.
<b>H319</b>	Causes serious eye irritation.
<b>H315</b>	Causes skin irritation.
<b>H317</b>	May cause an allergic skin reaction.
<b>H400</b>	Very toxic to aquatic life.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.
<b>H411</b>	Toxic to aquatic life with long lasting effects.
<b>EUH071</b>	Corrosive to the respiratory tract.
<b>EUH210</b>	Safety data sheet available on request.
<b>EUH212</b>	Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

**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

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

- 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) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
23. Delegated Regulation (UE) 2023/707
24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
24. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)

- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

#### Note for users:

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

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

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

Provide appointed staff with adequate training on how to use chemical products.

#### CALCULATION METHODS FOR CLASSIFICATION

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

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

SECTION 16. Other information ... / >>

Section 11.  
Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:  
The following sections were modified:  
02 / 03 / 04 / 06 / 07 / 08 / 09 / 11 / 12 / 15 / 16.