

Licata S.p.A.

P10989 - Tiles Eco Primer

Revision nr.4
Dated 17/09/2025
Printed on 17/09/2025
Page n. 1 / 12
Replaced revision:3 (Dated 12/09/2024)

EN

Safety Data Sheet

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

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

1.1. Product identifier

Code: **P10989**
Product name: **Tiles Eco Primer**

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

Intended use: **Substructure adhesion promoter**

1.3. Details of the supplier of the safety data sheet

Name: **Licata S.p.A.**
Full address: **Via dei Mille 32**
District and Country: **00185 Roma (RM) 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 not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP). However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to (EU) Regulation 2020/878.

Hazard classification and indication: --

2.2. Label elements

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

Hazard pictograms: --

Signal words: --

Hazard statements:

EUH210

EUH208

Safety data sheet available on request.

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

May produce an allergic reaction.

Precautionary statements: --

2.3. Other hazards

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SECTION 2. Hazards identification ... / >>				
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)	
QUARTZ				
INDEX		37,5 ≤ x < 40	Substance with a community workplace exposure limit.	
EC 238-878-4				
CAS 14808-60-7				
1,2-Benzisothiazol-3(2H)-one				
INDEX 613-088-00-6		0,008 ≤ x < 0,012	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			LD50 Oral: 490 mg/kg, ATE Inhalation mists/powders: 0,051 mg/l	
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	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, Classification note according to Annex VI to the CLP Regulation: B	
EC 611-341-5			Skin Corr. 1C H314: ≥ 0,6%, Skin Irrit. 2 H315: ≥ 0,06% - < 0,6%, Skin Sens. 1A H317: ≥ 0,0015%, Eye Dam. 1 H318: ≥ 0,6%, Eye Irrit. 2 H319: ≥ 0,06% - < 0,6%	
CAS 55965-84-9			LD50 Oral: 64 mg/kg, LD50 Dermal: 87,12 mg/kg, LC50 Inhalation mists/powders: 0,33 mg/l/4h	
REACH Reg. 01-2120764691-48				
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				
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				
EPY 11.9.0 - SDS 1004.14				

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SECTION 4. First aid measures ... / >>			
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 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.			
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SECTION 7. Handling and storage ... / >>

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

DEU	Deutschland	WirkungDosisNOAELMAK-und BAT-Werte-Liste 2024 Ständige Senatskommission zur Prüfung
ESP	España	gesundheits-schädlicher Arbeitsstoffe
FRA	France	Límites de exposición profesional para agentes químicos en España 2024
HRV	Hrvatska	Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021
ITA	Italia	PRAVILNIK O IZMJENAMA I DOPUNAMA PRAVILNIKA O ZAŠTITI RADNIKA OD
SVN	Slovenija	IZLOŽENOSTI OPASNIM KEMIČNIM AGENTIMA NA RADU, GRANIČNIM VRIJEDNOSTIMA
EU	OEL EU	IZLOŽENOSTI I BIOLOŠKIM GRANIČNIM VRIJEDNOSTIMA

Decreto Legislativo 9 Aprile 2008, n.81

Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti rakotvornim, mutagenim ali reprotoksičnim snovem pri delu. Ljubljana, četrtek 4. 4. 2024

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.

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

Predicted no-effect concentration - PNEC								
Normal value in fresh water		0,00403		mg/l				
Normal value in marine water		0,00040		mg/l				
		3						
Normal value for fresh water sediment		0,0499		mg/kg/d				
Normal value for marine water sediment		0,00499		mg/kg/d				
Normal value for marine water, intermittent release		0,0011		mg/l				
Normal value of STP microorganisms		1,03		mg/l				
Normal value for the terrestrial compartment		3		mg/kg				
Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers			Effects on workers				
	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Inhalation				1,2				6,81
				mg/m3				mg/m3
Skin				0,345				0,966
				mg/kg bw/d				mg/kg bw/d

QUARTZ

Threshold Limit Value					
Type	Country	TWA/8h	STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	
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

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SECTION 8. Exposure controls/personal protection ... / >>

REACTION MASS OF 5-CHLORO-2- METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE

(3:1)

Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
MAK	DEU	0.2		0.4		INHAL

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,00339	mg/l
Normal value for fresh water sediment	0,027	mg/kg
Normal value for marine water sediment	0,027	mg/kg
Normal value of STP microorganisms	0,23	mg/l
Normal value for the terrestrial compartment	0,01	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation						0,04 mg/m3		0,02 mg/m3

Legend:

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

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

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

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 B 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	liquid	
Colour	white	
Odour	characteristic	
Melting point / freezing point	not available	
Initial boiling point	not available	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	not available	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	9.61	Method:pHmetro Mettler Toledo

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SECTION 9. Physical and chemical properties ... / >>				
		Remark:Miscela con acqua Temperature: 20 °C		
Kinematic viscosity	not available			
Dynamic viscosity	16700			
		Method:Brookfield Remark:mPa*s Temperature: 20 °C		
Solubility	miscible			
Partition coefficient: n-octanol/water	not available			
Vapour pressure	not available			
Density and/or relative density	1,51 g/ml			
Relative vapour density	not available			
Particle characteristics	not applicable			
Supplementary information for nanoforms				
FERRIC OXIDE (nanoform)				
Denomination	Ferro idrossido ossido giallo			
Other identifier	Triossido di diferro			
Shape 1:				
Shape name	Aste			
Category	elongated			
Shape	rod			
Aspect ration (x:1)	4-6 :1			
D10	30 - 50	nm		
D50	50 - 100	nm		
D90	120 - 200	nm		
Specific surface area by volume	8 - 25	m2/cm3		
Method				
Shape 2:				
Category	spheroidal			
Shape	spherical			
D10	20 - 50	nm		
D50	70 - 100	nm		
D90	120 - 200	nm		
Specific surface area by volume	8 - 20	m2/cm3		
Method				
9.2. Other information				
9.2.1. Information with regard to physical hazard classes				
Information not available				
9.2.2. Other safety characteristics				
VOC (Directive 2010/75/EU)	0,25 %	-	3,70	g/litre
SECTION 10. Stability and reactivity				
10.1. Reactivity				
There are no particular risks of reaction with other substances in normal conditions of use.				
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.				
10.4. Conditions to avoid				
None in particular. However the usual precautions used for chemical products should be respected.				
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SECTION 10. Stability and reactivity ... / >>			
10.5. Incompatible materials			
Information not available			
10.6. Hazardous decomposition products			
Information not available			
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			
<u>Metabolism, toxicokinetics, mechanism of action and other information</u>			
Information not available			
<u>Information on likely routes of exposure</u>			
Information not available			
<u>Delayed and immediate effects as well as chronic effects from short and long-term exposure</u>			
Information not available			
<u>Interactive effects</u>			
Information not available			
<u>ACUTE TOXICITY</u>			
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)	
BARIUM SULFATE			
LD50 (Oral):		5000 mg/kg Rat	
1,2-Benzisothiazol-3(2H)-one			
LD50 (Dermal):		2000 mg/kg Ratto	
LD50 (Oral):		490 mg/kg Ratto	
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	
<u>SKIN CORROSION / IRRITATION</u>			
Does not meet the classification criteria for this hazard class			
<u>SERIOUS EYE DAMAGE / IRRITATION</u>			
Does not meet the classification criteria for this hazard class			
<u>RESPIRATORY OR SKIN SENSITISATION</u>			
May produce an allergic reaction.			
Contains:			
REACTION MASS OF 5-CHLORO-2- METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)			
1,2-Benzisothiazol-3(2H)-one			
<u>GERM CELL MUTAGENICITY</u>			

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SECTION 11. Toxicological information ... / >>

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

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

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**BARIUM SULFATE**

LC50 - for Fish	88,75 mg/l/96h
EC50 - for Crustacea	58,8 mg/l/48h
EC50 - for Algae / Aquatic Plants	57,075 mg/l/72h
EC10 for Algae / Aquatic Plants	18,5 mg/l/72h
Chronic NOEC for Crustacea	58,8 mg/l
Chronic NOEC for Algae / Aquatic Plants	50,575 mg/l

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

LC50 - for Fish	12,075 mg/l/96h
EC50 - for Crustacea	2,92 mg/l/48h
EC50 - for Algae / Aquatic Plants	0,11 mg/l/72h
EC10 for Algae / Aquatic Plants	0,0403 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	0,0403 mg/l

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
EC50 - for Algae / Aquatic Plants	0,037 mg/l/72h
Chronic NOEC for Fish	0,0464 mg/l
Chronic NOEC for Crustacea	0,1 mg/l
Chronic NOEC for Algae / Aquatic Plants	0,0012 mg/l

12.2. Persistence and degradability**QUARTZ**

Degradability: information not available

BARIUM SULFATE

Solubility in water	3,1 mg/l
Degradability: information not available	Sostanza inorganica

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SECTION 12. Ecological information ... / >>			
1,2-Benzisothiazol-3(2H)-one			
Solubility in water		1288 mg/l	
NOT rapidly degradable			
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			
1,2-Benzisothiazol-3(2H)-one			
Partition coefficient: n-octanol/water		0,7 20°C	
BCF		6,62	
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			
1,2-Benzisothiazol-3(2H)-one			
Partition coefficient: soil/water		9,33	
12.5. Results of PBT and vPvB assessment			
On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.			
12.6. Endocrine disrupting properties			
Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.			
12.7. Other adverse effects			
Information not available			
SECTION 13. Disposal considerations			
13.1. Waste treatment methods			
Reuse, when possible. 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.			
The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.			
CONTAMINATED PACKAGING			
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.			
SECTION 14. Transport information			
The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.			
14.1. UN number or ID number			
not applicable			
14.2. UN proper shipping name			
not applicable			
14.3. Transport hazard class(es)			
not applicable			
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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: None Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006 Contained substance Point75 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 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: Acute Tox. 2 Acute toxicity, category 2 Acute Tox. 3 Acute toxicity, category 3 Acute Tox. 4 Acute toxicity, category 4 Skin Corr. 1C Skin corrosion, category 1C Skin Corr. 1 Skin corrosion, category 1 Eye Dam. 1 Serious eye damage, category 1 Eye Irrit. 2 Eye irritation, category 2 Skin Irrit. 2 Skin irritation, category 2 Skin Sens. 1A Skin sensitization, category 1A Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1 Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1		
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SECTION 16. Other information ... / >>

H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
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.

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

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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)

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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)
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27. Delegated Regulation (UE) 2024/2564 (XXII Atp. CLP)

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

Note for users:

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

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

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

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

CALCULATION METHODS FOR CLASSIFICATION

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

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

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

Changes to previous review:

The following sections were modified:

02 / 03 / 06 / 07 / 08 / 09 / 11 / 12 / 13 / 16.