

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: P0014
Product name: LERICI NEUTRO

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

Intended use: not available

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:
NHS111 in England: 111
NHS24 in 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)

Licata S.p.A.

P0014 - LERICI NEUTRO

Revision nr.4

Dated 11/02/2025

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Replaced revision:3 (Dated 12/09/2024)

EN

SECTION 2. Hazards identification ... / >>

May produce an allergic reaction.

Precautionary statements:

P273

P391

Avoid release to the environment.

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 \geq than 0,1%.

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

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
ETHANEDIOL		
INDEX 603-027-00-1	$0,5 \leq x < 0,6$	Acute Tox. 4 H302, STOT RE 2 H373 ATE Oral: 500 mg/kg
EC 203-473-3		
CAS 107-21-1		
TITANIUM DIOXIDE		
INDEX	$0,45 \leq x < 0,5$	EUH210, EUH212
EC 236-675-5		
CAS 13463-67-7		
REACH Reg. 01-2119489379-17-0013		
QUARTZ		
INDEX	$0,05 \leq x < 0,1$	Substance with a community workplace exposure limit.
EC 238-878-4		
CAS 14808-60-7		
2-OCTYL-2H-ISOTHIAZOL-3-ONE		
INDEX 613-112-00-5	$0,0025 \leq x < 0,025$	Acute Tox. 2 H330, Acute Tox. 3 H301, Acute Tox. 3 H311, Skin Corr. 1 H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=100, EUH071 Skin Sens. 1A H317: $\geq 0,0015\%$, Eye Irrit. 2 H319: $\geq 1\% - < 3\%$ LD50 Oral: 125 mg/kg, LD50 Dermal: 311 mg/kg, LC50 Inhalation mists/powders: 0,27 mg/l/4h
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	$0 < x < 0,0015$	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 Skin Corr. 1C H314: $\geq 0,6\%$, Skin Irrit. 2 H315: $\geq 0,06\% - < 0,6\%$, Skin Sens. 1A H317: $\geq 0,0015\%$, Eye Dam. 1 H318: $\geq 0,6\%$, Eye Irrit. 2 H319: $\geq 0,06\% - < 0,6\%$ LD50 Oral: 64 mg/kg, LD50 Dermal: 87,12 mg/kg, LC50 Inhalation mists/powders: 0,33 mg/l/4h
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	$0 < x < 0,0015$	Acute Tox. 2 H330, Acute Tox. 4 H302, Skin Corr. 1 H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=100, EUH071 Skin Irrit. 2 H315: $\geq 0,025\% - < 5\%$, Skin Sens. 1A H317: $\geq 0,0015\%$, Eye Irrit. 2 H319: $\geq 0,025\% - < 3\%$ LD50 Oral: 567 mg/kg, LC50 Inhalation mists/powders: 0,16 mg/l/4h
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

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SECTION 4. First aid measures			
4.1. Description of first aid measures			
<p>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.</p> <p>In case of doubt or in the presence of symptoms contact a doctor and show him this document.</p> <p>In case of more severe symptoms, ask for immediate medical aid.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>INHALATION: Remove victim to fresh air, away from the accident scene. Get medical advice/attention.</p> <p><u>Rescuer protection</u></p> <p>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.</p>			
4.2. Most important symptoms and effects, both acute and delayed			
<p>Specific information on symptoms and effects caused by the product are unknown.</p> <p>DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.</p>			
4.3. Indication of any immediate medical attention and special treatment needed			
<p>If symptoms occur, whether acute or delayed, consult a doctor.</p> <p><u>Means to have available in the workplace for specific and immediate treatment</u></p> <p>Running water for skin and eye wash.</p>			
SECTION 5. Firefighting measures			
5.1. Extinguishing media			
<p>SUITABLE EXTINGUISHING EQUIPMENT</p> <p>The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.</p> <p>UNSUITABLE EXTINGUISHING EQUIPMENT</p> <p>None in particular.</p>			
5.2. Special hazards arising from the substance or mixture			
<p>HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE</p> <p>Do not breathe combustion products.</p>			
5.3. Advice for firefighters			
<p>GENERAL INFORMATION</p> <p>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.</p> <p>SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS</p> <p>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).</p>			
SECTION 6. Accidental release measures			
6.1. Personal precautions, protective equipment and emergency procedures			
<p>Block the leakage if there is no hazard.</p>			
EPY 11.7.2 - SDS 1004.14			

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SECTION 6. Accidental release measures ... / >>			
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			
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	
EPY 11.7.2 - SDS 1004.14			

	ETHANEDIOL
Chemical name	Ethane-1,2-diol
Molecular formula	C ₂ H ₆ O ₂
Structure	
Relative molecular mass	62
Boiling point / °C	117.3
Melting point / °C	-12.9
Density / g cm ⁻³	1.115
Refractive index	1.414
Flash point / °C	11
Autoignition temperature / °C	499
LFL / %	5.0
UFL / %	19.0
Explosion limit (LEL) / %	5.0
Explosion limit (UEL) / %	19.0
Explosion pressure (P _{st}) / bar	10.0
Maximum rate of pressure rise (dP/dt) _{max} / bar s ⁻¹	0.15
Minimum ignition energy (MIE) / mJ	0.2
Heat of combustion / kJ mol ⁻¹	-1368
Heat of combustion / kJ kg ⁻¹	22.7
Standard enthalpy of formation / kJ mol ⁻¹	-483.5
Standard entropy of formation / J K ⁻¹ mol ⁻¹	167.5
Standard Gibbs free energy of formation / kJ mol ⁻¹	-484.6
Standard Gibbs free energy of combustion / kJ mol ⁻¹	-1326.9
Standard Gibbs free energy of combustion / kJ kg ⁻¹	21.5
Standard Gibbs free energy of formation / kcal mol ⁻¹	-115.8
Standard entropy of formation / cal K ⁻¹ mol ⁻¹	69.7
Standard Gibbs free energy of formation / Btu lb ⁻¹	-34.4
Standard Gibbs free energy of combustion / Btu lb ⁻¹	15.9
Standard Gibbs free energy of combustion / MJ kg ⁻¹	53.4
Standard Gibbs free energy of formation / MJ kmol ⁻¹	-483.5
Standard Gibbs free energy of combustion / MJ kmol ⁻¹	-1326.9
Standard Gibbs free energy of combustion / MJ kg ⁻¹	21.5
Standard Gibbs free energy of formation / GJ t ⁻¹	-483.5
Standard Gibbs free energy of combustion / GJ t ⁻¹	-1326.9
Standard Gibbs free energy of combustion / GJ kg ⁻¹	21.5
Standard Gibbs free energy of formation / kWh kg ⁻¹	-6.2
Standard Gibbs free energy of combustion / kWh kg ⁻¹	3.5
Standard Gibbs free energy of combustion / kWh t ⁻¹	3500
Standard Gibbs free energy of formation / kWh t ⁻¹	-6200
Standard Gibbs free energy of combustion / kWh t ⁻¹	3500
Standard Gibbs free energy of combustion / kWh kg ⁻¹	3.5
Standard Gibbs free energy of formation / MWh t ⁻¹	-6.2
Standard Gibbs free energy of combustion / MWh t ⁻¹	3.5
Standard Gibbs free energy of combustion / MWh kg ⁻¹	3.5
Standard Gibbs free energy of formation / MWh t ⁻¹	-6.2
Standard Gibbs free energy of combustion / MWh t ⁻¹	3.5
Standard Gibbs free energy of combustion / MWh kg ⁻¹	3.5
Standard Gibbs free energy of formation / TWh t ⁻¹	-6.2
Standard Gibbs free energy of combustion / TWh t ⁻¹	3.5
Standard Gibbs free energy of combustion / TWh kg ⁻¹	3.5
Standard Gibbs free energy of formation / TWh t ⁻¹	-6.2
Standard Gibbs free energy of combustion / TWh t ⁻¹	3.5
Standard Gibbs free energy of combustion / TWh kg ⁻¹	3.5
Standard Gibbs free energy of formation / PJ t ⁻¹	-6.2
Standard Gibbs free energy of combustion / PJ t ⁻¹	3.5
Standard Gibbs free energy of combustion / PJ kg ⁻¹	3.5
Standard Gibbs free energy of formation / PJ t ⁻¹	-6.2
Standard Gibbs free energy of combustion / PJ t ⁻¹	3.5
Standard Gibbs free energy of combustion / PJ kg ⁻¹	3.5
Standard Gibbs free energy of formation / EJ t ⁻¹	-6.2
Standard Gibbs free energy of combustion / EJ t ⁻¹	3.5
Standard Gibbs free energy of combustion / EJ kg ⁻¹	3.5
Standard Gibbs free energy of formation / EJ t ⁻¹	-6.2
Standard Gibbs free energy of combustion / EJ t ⁻¹	3.5
Standard Gibbs free energy of combustion / EJ kg ⁻¹	3.5
Standard Gibbs free energy of formation / YJ t ⁻¹	-6.2
Standard Gibbs free energy of combustion / YJ t ⁻¹	3.5
Standard Gibbs free energy of combustion / YJ kg ⁻¹	3.5
Standard Gibbs free energy of formation / YJ t ⁻¹	-6.2
Standard Gibbs free energy of combustion / YJ t ⁻¹	3.5
Standard Gibbs free energy of combustion / YJ kg ⁻¹	3.5
Standard Gibbs free energy of formation / ZJ t ⁻¹	-6.2
Standard Gibbs free energy of combustion / ZJ t ⁻¹	3.5
Standard Gibbs free energy of combustion / ZJ kg ⁻¹	3.5
Standard Gibbs free energy of formation / ZJ t ⁻¹	-6.2
Standard Gibbs free energy of combustion / ZJ t ⁻¹	3.5
Standard Gibbs free energy of combustion / ZJ kg ⁻¹	3.5
Standard Gibbs free energy of formation / QJ t ⁻¹	-6.2
Standard Gibbs free energy of combustion / QJ t ⁻¹	3.5
Standard Gibbs free energy of combustion / QJ kg ⁻¹	3.5
Standard Gibbs free energy of formation / QJ t ⁻¹	-6.2
Standard Gibbs free energy of combustion / QJ t ⁻¹	3.5
Standard Gibbs free energy of combustion / QJ kg ⁻¹	3.5
Standard Gibbs free energy of formation / RJ t ⁻¹	-6.2
Standard Gibbs free energy of combustion / RJ t ⁻¹	3.5
Standard Gibbs free energy of combustion / RJ kg ⁻¹	3.5
Standard Gibbs free energy of formation / RJ t ⁻¹	-6.2
Standard Gibbs free energy of combustion / RJ t ⁻¹	3.5
Standard Gibbs free energy of combustion / RJ kg ⁻¹	3.5
Standard Gibbs free energy of formation / TJ t ⁻¹	-6.2
Standard Gibbs free energy of combustion / TJ t ⁻¹	3.5
Standard Gibbs free energy of combustion / TJ kg ⁻¹	3.5
Standard Gibbs free energy of formation / TJ t ⁻¹	-6.2
Standard Gibbs free energy of combustion / TJ t ⁻¹	3.5
Standard Gibbs free energy of combustion / TJ kg ⁻¹	3.5
Standard Gibbs free energy of formation / YJ t ⁻¹	-6.2
Standard Gibbs free energy of combustion / YJ t ⁻¹	3.5
Standard Gibbs free energy of combustion / YJ kg ⁻¹	3.5
Standard Gibbs free energy of formation / YJ t ⁻¹	-6.2
Standard Gibbs free energy of combustion / YJ t ⁻¹	3.5
Standard Gibbs free energy of combustion / YJ kg ⁻¹	3.5
Standard Gibbs free energy of formation / ZJ t ⁻¹	-6.2
Standard Gibbs free energy of combustion / ZJ t ⁻¹	3.5
Standard Gibbs free energy of combustion / ZJ kg ⁻¹	3.5
Standard Gibbs free energy of formation / ZJ t ⁻¹	-6.2
Standard Gibbs free energy of combustion / ZJ t ⁻¹	3.5
Standard Gibbs free energy of combustion / ZJ kg ⁻¹	3.5
Standard Gibbs free energy of formation / QJ t ⁻¹	-6.2
Standard Gibbs free energy of combustion / QJ t ⁻¹	3.5
Standard Gibbs free energy of combustion / QJ kg ⁻¹	3.5
Standard Gibbs free energy of formation / QJ t ⁻¹	-6.2
Standard Gibbs free energy of combustion / QJ t ⁻¹	3.5
Standard Gibbs free energy of combustion / QJ kg ⁻¹	3.5
Standard Gibbs free energy of formation / RJ t ⁻¹	-6.2
Standard Gibbs free energy of combustion / RJ t ⁻¹	3.5
Standard Gibbs free energy of combustion / RJ kg ⁻¹	3.5
Standard Gibbs free energy of formation / RJ t ⁻¹	-6.2
Standard Gibbs free energy of combustion / RJ t ⁻¹	3.5

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 ³	

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

(3:1)

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SECTION 9. Physical and chemical properties ... / >>		
<div> <div>pH</div> <div>Kinematic viscosity</div> <div>Dynamic viscosity</div> <div>Solubility</div> <div>Partition coefficient: n-octanol/water</div> <div>Vapour pressure</div> <div>Density and/or relative density</div> <div>Relative vapour density</div> <div>Particle characteristics</div> </div>	<div> <div>9</div> <div>not available</div> <div>55000</div> <div>not available</div> <div>not available</div> <div>not available</div> <div>not available</div> <div>not available</div> <div>not applicable</div> </div>	<div>Method:Brookfield</div>
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)	0,94 %	
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		
<div>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.</div> <div>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.</div>		
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008		
Metabolism, toxicokinetics, mechanism of action and other information		

SECTION 11. Toxicological 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:

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

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SECTION 11. Toxicological information ... / >>

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

EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants

Chronic NOEC for Fish

Chronic NOEC for Crustacea

Chronic NOEC for Algae / Aquatic Plants

0,0078 mg/l/96h Oncorhynchus mykiss

0,0097 mg/l/48h Daphnia magna

0,025 mg/l/72h Desmodesmus subspicatus

0,00047 mg/l Brachydanio rerio

0,0004 mg/l Daphnia magna

0,015 mg/l Desmodesmus subspicatus

TITANIUM DIOXIDE

LC50 - for Fish

EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants

EC10 for Algae / Aquatic Plants

Chronic NOEC for Algae / Aquatic Plants

> 1000 mg/l/96h

> 1000 mg/l/48h Pulce d'acqua grande

> 10000 mg/l/72h Alghe cloroficee

12,7 mg/l/72h

5600 mg/l

2-OCTYL-2H-ISOTHAZOL-3-ONE

LC50 - for Fish

EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants

EC10 for Crustacea

EC10 for Algae / Aquatic Plants

Chronic NOEC for Fish

Chronic NOEC for Crustacea

Chronic NOEC for Algae / Aquatic Plants

0,036 mg/l/96h Oncorhynchus mykiss

0,00129 mg/l/48h Navicula peliculosa

0,084 mg/l/72h Desmodesmus subspicatus

0,000224 mg/l/48h

0,000224 mg/l/72h Navicula pelliculosa

0,022 mg/l Oncorhynchus mykiss

0,002 mg/l Daphnia magna

0,00068 mg/l Skeletonema costatum

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SECTION 12. Ecological information ... / >>

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 \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

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SECTION 13. Disposal considerations				
13.1. Waste treatment methods				
<p>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.</p> <p>Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.</p> <p>CONTAMINATED PACKAGING</p> <p>Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.</p>				
SECTION 14. Transport information				
<p>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.</p>				
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)				
None				
Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:				

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SECTION 15. Regulatory information ... / >>

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
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
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
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H302	Harmful if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure.
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.
H411	Toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.
EUH210	Safety data sheet available on request.
EUH212	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
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level

P0014 - LERICI NEUTRO**SECTION 16. Other information ... / >>**

- 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
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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
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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 / 04 / 06 / 07 / 08 / 09 / 11 / 12 / 15 / 16.