0030250 - PULIBRILL

Revision nr. 9

Dated 10/10/2023 Printed on 10/10/2023

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Replaced revision:8 (Dated: 12/01/2023)

Safety Data Sheet
According to Annex II to REACH - Regulation 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

0030250 Code: Product name **PULIBRILL** Chemical name and synonym **PULIBRILL**

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

SU22 - Professional use SU21 - Consumer use Sector of use:

Category of product: PC35 - Washing and cleaning products (including solvent based products)

Intended use. Wood cleaner

1.3. Details of the supplier of the safety data sheet

Name MARBEC S.R.L. Full address VIA CROCE ROSSA 5/i District and Country 51037 MONTALE (PISTOIA)

ITALIA

Tel. +039 0573/959848

Fax

e-mail address of the competent person

responsible for the Safety Data Sheet

info@marbec.it Supplier:

1.4. Emergency telephone number

For urgent inquiries refer to MARBEC srl

0573959848 h8.30-13 h14-18 o 3357267921

Numero telefonico di Centri Antiveleni attivi 24/24 ore

IRCSS Fondazione Maugeri -Pavia 0039-0382-24444 CAV Ospedali Riuniti -Bergamo 0039-800-883300

CAV Ospedale Niguarda Ca` Granda -

Milano 0039-02-66101029

CAV Ospedale Careggi- Firenze 0039-055-7947819

CAV Policlinico Gemelli -Roma 0039-06-3054343 CAV Policlinico Umberto I -Roma 0039-06 49978000 CAV Ospedale Cardarelli -Napoli 0039-081 5453333

CAV Azienda Ospedaliera Integrata Verona - Verona 800011858

SECTION 2. Hazards identification

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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:

Eye irritation, category 2 H319 Causes serious eye irritation.

Skin irritation, category 2 H315 Causes skin irritation.

2.2. Label elements

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

Hazard pictograms:



Signal words: Warning

Hazard statements:

H319 Causes serious eye irritation.
H315 Causes skin irritation.

Precautionary statements:

P280 Wear protective gloves / eye protection / face protection. **P337+P313** If eye irritation persists: Get medical advice / attention.

P102 Keep out of reach of children.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

Ingredients compliant with Regulation (EC) No. 648/2004

Nonionic surfactants 5% <C <15%, cationic surfactants <1%. Perfume (Geraniol, Orange Sweet Brasil Oil, d-Limonene, p-Menth-1,4 (8) - diene)

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

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Contains:

Identification x = Conc. % Classification (EC) 1272/2008 (CLP)

alcohols, branched C12-15 and linear, propoxylated ethoxylates

CAS 120313-48-6 $3 \le x < 9$ Eye Irrit. 2 H319, Skin Irrit. 2 H315

EC

INDEX -

REACH Reg. (REF.:N° 02-2119548508-30-0000

Alcohols, C11-13-branched, ethoxylated (>2.5 moles EO)

CAS 68439-54-3 1 ≤ x < 3 Acute Tox. 4 H302, Eye Dam. 1 H318

EC LD50 Oral: >300 mg/kg

INDEX -

2-BUTOXYETHANOL

CAS 111-76-2 1 ≤ x < 3 Acute Tox. 3 H331, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315

EC 203-905-0 LD50 Oral: >1200 mg/kg, LC50 Inhalation vapours: 3 mg/l/4h

INDEX 603-014-00-0

REACH Reg. 01-2119475108-36-

0005

1-METHOXY-2-PROPANOL

CAS 107-98-2 $1 \le x < 3$ Flam. Liq. 3 H226, STOT SE 3 H336

EC 203-539-1

INDEX 603-064-00-3

REACH Reg. 01-2119457435-35

Quaternary ammonium compounds, benzyl C12-C16

alkyldimethyl, compounds CAS 68424-85-1

CAS 68424-85-1 0 ≤ x < 0,25 Met. Corr. 1 H290, Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1

H318, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1

EC 270-325-2 LD50 Oral: 795 mg/kg

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

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again. INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

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

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

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Information not available

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.

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

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

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7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany):

12

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	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/ ACCIL	ACCIL 2024

ILV-ACGIN	ACGIT 2021

Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	;	
		mg/m3	ppm	mg/m3	ppm			
AGW	DEU	370	100	740	200			
MAK	DEU	370	100	740	200			
VLA	ESP	375	100	568	150	SKIN		
VLEP	FRA	188	50	375	100	SKIN		
VLEP	ITA	375	100	568	150	SKIN		
VLE	PRT	375	100	568	150			
WEL	GBR	375	100	560	150	SKIN		
OEL	EU	375	100	568	150	SKIN		
TLV-ACGIH		184	50	368	100			
Health - Derived no-ef	fect level - DNEL / [OMEL						
	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
Oral			VND	3,3 mg/kg bw/d				
Inhalation			VND	43,9 mg/m3	553,5 mg/m3	VND		369 mg/m3
Skin			VND	18,1 mg/kg bw/d		VND		50,6 mg/kg bw/d

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		mg/m3	ppm	mg/m3	ppm	Observatio	ons	
AGW	DEU	49	10	98 (C)	20 (C)	SKIN		
MAK	DEU	49	10	98	20	SKIN	Hinweis	
VLA	ESP	98	20	245	50	SKIN		
VLEP	FRA	49	10	246	50	SKIN		
VLEP	ITA	98	20	246	50	SKIN		
VLE	PRT	98	20	246	50	SKIN		
WEL	GBR	123	25	246	50	SKIN		
OEL	EU	98	20	246	50	SKIN		
TLV-ACGIH		97	20					
Predicted no-effect concer	ntration - PNEC							
Normal value in fresh water	er			8,8	mg	ı/l		
Normal value in marine wa	iter			0,88	mg	ı/I		
Normal value for fresh wat	er sediment			34,6	mg	ı/kg		
Normal value for marine w	ater sediment			3,46	mg	ı/kg		
Normal value for water, int	ermittent release			9,1	mg	ı/l		
Normal value of STP micro	oorganisms			463	mg	ı/l		
Normal value for the food	chain (secondary poisor	ning)		20	mg	ı/kg		
Normal value for the terres	strial compartment			2,33	mg	ı/kg		
Health - Derived no-ef	ffect level - DNEL / I Effects on consumers	OMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		26,7 mg/kg bw/d		6,3 mg/kg bw/d				,
Inhalation	147 mg/m3	426 mg/m3		59 mg/m3	246 mg/m3	1091 mg/m3		98 mg/m3
Skin				38 mg/kg bw/d				

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.

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.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

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The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

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 II 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

Droportion

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

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. The protection provided by masks is in any case limited.

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.

Information

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Value	Information
dense liquid	
green	
mild	
Not available	
Not available	
incombustible	
Not applicable	
Not applicable	
> 60 °C	
Not applicable	
8	
Not available	
soluble in water	
Not available	
Not available	
1 kg/l	
Not available	
Not applicable	
	green mild Not available Not available incombustible Not applicable Not applicable > 60 °C Not applicable 8 Not available soluble in water Not available Not available 1 kg/l Not available

Value

9.2. Other information

9.2.1. Information with regard to physical hazard classes

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Information not available

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU) 2,00 % - 20,00 g/litre VOC (volatile carbon) 1,14 % - 11,40 g/litre

Explosive properties non-explosive
Oxidising properties non-oxidizing

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

Under normal conditions of use and storage, no hazardous reactions are foreseeable.

10.4. Conditions to avoid

None in particular. However, please observe the usual precautions against chemicals.

10.5. Incompatible materials

Information not available.

10.6. Hazardous decomposition products

Information not available.

SECTION 11. Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

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1-METHOXY-2-PROPANOL

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; 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

1-METHOXY-2-PROPANOL

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product. Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported.

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation - vapours) of the mixture: > 20 mg/l
ATE (Oral) of the mixture: >2000 mg/kg

ATE (Dermal) of the mixture: Not classified (no significant component)

Alcohols, branched C12-15 and linear, propoxylated ethoxylates

LD50 (Oral): > 2000 mg/kg ratto

Ethoxylated aliphatic alcohol 7 moles

 LD50 (Dermal):
 > 2000 mg/kg coniglio

 LD50 (Oral):
 > 300 mg/kg ratto

1-METHOXY-2-PROPANOL

 LD50 (Dermal):
 > 2000 mg/kg Rabbit

 LD50 (Oral):
 4016 mg/kg Ratto

 LC50 (Inhalation vapours):
 > 7000 mg/l/4h Ratto

2-BUTOXYETHANOL

LD50 (Dermal): > 2000 mg/kg Porcellino d'India (OECD - linea guida 402)

LD50 (Oral): > 1200 mg/kg Guinea pig

LC50 (Inhalation vapours): 3 mg/l/4h Rat

Quaternary ammonium compounds, benzyl C12-C16 alkyldimethyl, compounds

LD50 (Dermal): > 5000 mg/kg calcolato LD50 (Oral): 795 mg/kg ratto

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SKIN CORROSION / IRRITATION	
Causes skin irritation	
SERIOUS EYE DAMAGE / IRRITATION	
Causes serious eye irritation	
DESCRIPATORY OF SKIN SENSITISATION	
RESPIRATORY OR SKIN SENSITISATION	
Does not meet the classification criteria for this hazard class	
Does not meet the classification chieffa for this nazard class	
Respiratory sensitization	
- Communication	
Information not available	
Skin sensitization	
Information not available	
GERM CELL MUTAGENICITY	
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	
Adverse effects on sexual function and fertility	

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Information not available	
Adverse effects on development of the offspring	
Information not available	
Effects on or via lactation	
Information not available	
Information not available	
STOT - SINGLE EXPOSURE	
Does not meet the classification criteria for this hazard class	
Target organs	
Information not available	
Route of exposure	
Information not available	
STOT - REPEATED EXPOSURE	
Does not meet the classification criteria for this hazard class	
<u>Target organs</u>	
Information not available	
Route of exposure	

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Information not available

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

12.1. Toxicity

2-Butoxyethanol

Evaluation of aquatic toxicity (supplier): the product is probably not harmful to aquatic organisms. There is a high probability that the product is not chronically harmful to aquatic organisms. The correct introduction of low concentrations in a biological purification plant should not compromise the degradation activity of activated sludge. Assessment of terrestrial toxicity (provider): scientifically unjustified study.

1-METHOXY-2-PROPANOL

The product is probably not harmful to aquatic organisms. The correct introduction of low concentrations in a biological purification plant should not compromise the degradation activity of the active hollows.

2-BUTOXYETHANOL

LC50 - for Fish 1474 mg/l/96h oncorhynchus mykiss EC50 - for Crustacea 1550 mg/l/48h daphnia magna

EC50 - for Algae / Aquatic Plants 1840 mg/l/72h pseudokirchneriella subcapitata

Chronic NOEC for Fish > 100 mg/l brachydanio rerio
Chronic NOEC for Crustacea 100 mg/l daphnia magna

1-METHOXY-2-PROPANOL

LC50 - for Fish > 6800 mg/l/96h leuciscus idus EC50 - for Crustacea 23300 mg/l/48h daphnia magna

Ethixylated aliphatic alcohol 7 moles

LC50 - for Fish5 mg/l/96hEC50 - for Crustacea5 mg/l/48hEC50 - for Algae / Aquatic Plants5 mg/l/72h

Chronic NOEC for Algae / Aquatic Plants 10 mg/kg Metodo OECD 208

Alcohols, branched C12-15 and linear,

propoxylated ethoxylates

LC50 - for Fish 5 mg/l/96h

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Quaternary ammonium compounds, benzyl-

C12-16-alkyldimethyl, chlorides

LC50 - for Fish 0,19 mg/l/96h trota iridea

 EC50 - for Crustacea
 0,16 mg/l/48h

 EC50 - for Algae / Aquatic Plants
 0,027 mg/l/72h

12.2. Persistence and degradability

1-METHOXY-2-PROPANOL

Evaluation of biodegradability and elimination (H2O): easily biodegradable (according to OECD critreri). Disposal considerations: 90-100% (28 days) (OECD 301E / 92/96 / EEC, C 4-B) (aerobic, municipal wastewater treatment effluent). In water, hydrolytic stability was not determined but rapid biodegradability was found (96% degraded in 28 days). OECD 301E test. Atmospheric vapor has rapidly photodegraded (half-life <1day)

2-BUTOXYETHANOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

1-METHOXY-2-PROPANOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

Ethixylated aliphatic alcohol 7 moles

Rapidly degradable

Alcohols, branched C12-15 and linear, propoxylated ethoxylates Rapidly degradable

Quaternary ammoniumcompounds, benzyl-C12-16-alkyldimethyl, chlorides Rapidly degradable

12.3. Bioaccumulative potential

2-BUTOXYETHANOL

Partition coefficient: n-octanol/water 0,81

BCF 3,16 (valore QSAR calcolato). Non si suppone che questa sostanza possa

bioaccumularsi

1-METHOXY-2-PROPANOL

Partition coefficient: n-octanol/water < 1

12.4. Mobility in soil

2-BUTOXYETHANOL

Evaluation of transport between environmental departments (supplier): the substance does not evaporate into the atmosphere from the surface of the water. Absorption to the solid phase of the soil is not expected. Study scientifically not justified. Water stability: immediate hydrolysis is not expected; it does not contain functional groups for which it is believed that they can be hydrolyzed in water. Soil stability: expected low absorption in soil particles.

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%.

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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 environmental effects under evaluation. 12.7. Other adverse effects	suspected endocrine disruptors with
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 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 regulation.	gulations.
SECTION 14. Transport information	
The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods be the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA)	y Road (ADR) and by Rail (RID), of 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

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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	
<u>Product</u>	
Point 3 - 40	
Contained substance	
Point 75	
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:	
None	
Substances subject to the Rotterdam Convention:	
None	
Substances subject to the Stockholm Convention:	

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None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has been prepared for the following substances in the mixture 2-BUTOXYETHANOL, 1-METHOXY-2-PROPANOL

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 3 Flammable liquid, category 3

Met. Corr. 1 Substance or mixture corrosive to metals, category 1

Acute Tox. 3 Acute toxicity, category 3

Acute Tox. 4 Acute toxicity, category 4

Skin Corr. 1B Skin corrosion, category 1B

Eye Dam. 1 Serious eye damage, category 1

Eye Irrit. 2 Eye irritation, category 2
Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1

Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1

H226 Flammable liquid and vapour. H290 May be corrosive to metals.

H331 Toxic if inhaled.
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.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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

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- 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 as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- 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 as for REACH Regulation
- 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 (EÚ) 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)
- 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.

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Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determ Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless	nined otherwise in Section 11. s determined otherwise in Section 12.
Changes to previous review: The following sections were modified: 03 / 08 / 11 / 16.	