#### Revision No. 1 MARBEC S.R.L. Revision date 10/12/2024 New issue Printed on 10/12/2024 0030204 - ROBOPARQUET Page No. 1/14

# Safety Data Sheet Complies with Annex II of REACH - Regulation (EU) 2020/878

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

1.1. Product identifier

Code: 0030204

Denomination **ROBOPARQUET** Chemical name and synonyms **ROBOPARQUET** 

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

Area of use SU21- Consumer Uses

**Product Category** PC35 - Washing and cleaning products (including solvent-based products)

Description/Use Concentrated detergent for robot floor cleaners

1.3. Information on the safety data sheet provider

MARBEC S.R.L. Name Address VIA CROCE ROSSA 5/i 51037 MONTALE (PISTOIA) Location and State

**ITALY** 

tel. +039 0573/959848

e-mail address of the competent person,

Safety Data Sheet Manager info@marbec.it

#### 1.4. Emergency telephone number

For urgent information, please contact

MARBEC srl

0573959848 8.30 a.m.-1 p.m. 2 p.m.-6 p.m. or +393348578502

Telephone number of Poison Control Centers active 24 hours a day

National Poisons Information Service (Birmingham Unit) +44 844 892 0111

#### **SECTION 2. Hazard identification**

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

The product is classified as hazardous pursuant to the provisions of Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and adaptations). The product therefore requires a safety data sheet that complies with the provisions of Regulation (EU) 2020/878. Any additional information regarding risks to health and/or the environment is reported in sections 11 and 12 of this sheet.

Classification and hazard statements:

Eye irritation, category 2 H319 It causes severe eye irritation.

#### 2.2. Label elements

#### 

Hazard labelling in accordance with Regulation (EC) 1272/2008 (CLP) and subsequent amendments and adaptations.

Hazard pictograms:



Warnings: Attention

Hazard statements:

H319 It causes severe eye irritation.

Precautionary statements:

P102 Keep out of reach of children.

P280 Protect your eyes/face.

P337+P313 If eye irritation persists, seek medical attention.

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

Nonionic surfactants <5%, Anionic surfactants <5%, Fragrance, Preservatives.

Product not intended for uses under Directive 2004/42/EC.

# 2.3. Other hazards

Based on the available data, the product does not contain PBT or vPvB substances in a percentage ≥ to 0.1%.

The product does not contain endocrine-disrupting substances in a concentration  $\geq$  0.1%.

# **SECTION 3. Composition/ingredient information**

#### 3.2. Mixtures

Contains:

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

CAS 7732-18-5

3-metossi-3-methyl-1-butanolo

INDEX -  $3 \le x < 9$  Eye Irrit. 2 H319

CE 260-252-4

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CAS 56539-66-3

Reg. REACH 01-2119976333-33-

XXXX

#### **PROPANE-2-OLO**

INDEX 603-117-00-0

 $3 \le x < 9$ 

Flam. Lig. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336

CE 200-661-7 CAS 67-63-0

Reg. REACH 01-2119457558-25-

XXXX

#### Hydrogenated castor oil

INDEX -

 $1 \le x < 3$ 

EC 232-292-2 CAS 8001-78-3

Reg. REACH 01-2119498298-18-

XXXX

The full text of the hazard statements (H) can be found in section 16 of the data sheet.

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

#### 4.1. Description of first aid measures

If in doubt or if you have symptoms, contact a doctor and show him this document. In case of more severe symptoms, call 118 for immediate medical help.

EYES: Remove, if present, contact lenses if the situation allows the operation to be carried out easily. Wash immediately and thoroughly with water for at least 15 minutes, opening the eyelids wide. Seek medical attention immediately.

SKIN: Remove contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Consult a doctor. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless expressly authorized by your doctor. Do not administer anything orally if the subject is unconscious. Seek medical attention immediately.

INHALATION: Take the subject to fresh air away from the scene of the accident. Seek medical attention immediately.

#### Protecting Rescuers

It is good practice for the rescuer who is helping a person who has been exposed to a chemical substance or mixture to wear personal protective equipment. The nature of such protections depends on the hazardousness of the substance or mixture, the mode of exposure and the extent of contamination. In the absence of other more specific indications, it is recommended to use disposable gloves in case of possible contact with biological liquids. For the type of PPE suitable for the characteristics of the substance or mixture, refer to section 8.

#### 4.2. Main symptoms and effects, both acute and delayed

No specific information is known about the symptoms and effects caused by the product.

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

#### 4.3. Indication of the need for immediate medical advice and special treatment

If eye irritation persists, seek medical attention.

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Means to be available in the workplace for specific and immediate treatment

Running water for skin and eye washing.

# **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing means

SUITABLE EXTINGUISHING MEANS

The means of extinguishing are: carbon dioxide, foam, chemical dust.

UNSUITABLE MEANS OF EXTINGUISHING

No one in particular.

#### 5.2. Special hazards arising from the substance or mixture

HAZARDS DUE TO EXPOSURE IN THE EVENT OF FIRE Avoid breathing in the combustion products.

#### 5.3. Recommendations for firefighters

#### GENERAL INFORMATION

Cool the containers with water jets to prevent the product from decomposing and developing substances that are potentially hazardous to health. Always wear full fire protection equipment. Collect extinguishing water that should not be discharged into the sewers. Dispose of contaminated water used for extinguishing and residual fire according to current regulations.

#### EQUIPMENT

Normal firefighting clothing, such as an open-circuit compressed air breathing apparatus (EN 137), flame-retardant suit (EN469), flame-retardant gloves (EN 659) and firefighter boots (HO A29 or A30).

## **SECTION 6. Measures in the event of accidental release**

# 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Stop the leak if there is no danger.

Wear appropriate protective equipment (including personal protective equipment referred to in section 8 of the Safety Data Sheet) to prevent contamination of the skin, eyes and personal clothing. These indications are valid both for workers and for emergency interventions.

#### 6.2. Environmental precautions

Prevent the product from entering sewers, surface water, groundwater.

#### 6.3. Methods and materials for containment and remediation

Vacuum the spilled product into a suitable container. Evaluate the compatibility of the container to be used with the product, checking section 10. Absorb the remainder with inert absorbent material.

Provide sufficient ventilation of the place affected by the leak. Disposal of contaminated material shall be carried out in accordance with the provisions of point 13.

#### 6.4. Reference to other sections

Any information regarding personal protection and disposal can be found in sections 8 and 13.

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# **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

Handle the product after consulting all other sections of this safety data sheet. Avoid dispersing the product into the environment. Do not eat, drink, or smoke during use. Remove contaminated clothing and protective equipment before entering eating areas.

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

Store in a well-ventilated place, away from direct sunlight and at a temperature below 50°C / 122°F, away from any source of combustion.

Storage class TRGS 510 (Germany):

#### 7.3. Special end-uses

Information not available

# **SECTION 8. Exposure/Personal Protection Controls**

#### 8.1. Control parameters

Regulatory references:

DEU Research Association MAK and BAT Values List 2022 Permanent Senate Commission for the Examination Germany

of Hazardous Substances in the Workplace Communication 58 Occupational exposure limits for chemical agents in Spain 2023

Extrasensory España

perception

BETWEEN France Occupational exposure limit values for chemical agents in FranceDecree No. 2021-1849 of 28 December

United Kingdom TLV-ACGIH EH40/2005 Workplace exposure limits (Fourth Edition 2020) ACGIH 2023 GBR

3-metossi-3-methyl-1-butanolo Health - Derived Level of No-Effect - DNEL / DMEL								
	Effects on consumers				Effects on workers			
Exhibition Street	Acute rooms	Acute systemic	Chronic Premises	Chronic systemic	Acute rooms	Acute systemic	Chronic Premises	Chronic systemic
Oral				2,5 mg/kg bw/d				
Inhalation				4,4 mg/m3				18 mg/m3
Dermal				3,1 mg/kg bw/d				6,25 mg/kg bw/d

PROPANE-2-OL	ROPANE-2-OLO						
Threshold limit	value						
Guy	State	TWA/8h		STEL/15min		Notes / Remarks	
		mg/m3	ppm	mg/m3	ppm		
AGW	GAVE	500	200	1000	400		_
MAK	GAVE	500	200	1000	400		
VLA	ESP	500	200	1000	400		_
OEL	FROM			980	400		
WELL	GBR	999	400	1250	500		
TLV-ACGIH		492	200	983	400		

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Predicted concentration of no effect on the environment - NECP				
Reference value in fresh water	140,9	mg/L		
Reference value in seawater	140.9	mg/L		
Reference value for freshwater sediment				
	552	mg/kg		
Reference value for sediment in seawater	552	mg/kg		
Reference value for the land compartment	28	mg/kg		

ı	Health - Derived Level of No	-Effect - DNEL	/ DMEL						
ı		Effects on				Effects on			
ı		consumers				workers			
ı	Exhibition Street	Acute rooms	Acute systemic	Chronic	Chronic	Acute rooms	Acute	Chronic	Chronic
ı				Premises	systemic		systemic	Premises	systemic
	Oral				26 mg/kg/d				
	Inhalation				89 mg/kg				500 mg/m3
	Dermal				319 mg/kg/d				888 mg/kg/d

Hydrogenated castor Health - Derived Leve		_/ DMEL						
	Effects on consumers				Effects on workers			
Exhibition Street	Acute rooms	Acute systemic	Chronic Premises	Chronic systemic	Acute rooms	Acute systemic	Chronic Premises	Chronic systemic
Oral				23.875 mg/kg bw/d				
Inhalation				83.085 mg/m3				336.75 mg/m3
Dermal				23.875 mg/kg bw/d				47.75 mg/kg bw/d

Legend:

(C) = CEILING; INALAB = Inhalable fraction; RESPIR = respirable fraction; TORAC = Thoracic fraction.

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

#### 8.2. Exposure Controls

Considering that the use of appropriate technical measures should always take priority over personal protective equipment, ensure good ventilation in the workplace by means of effective local suction.

When choosing personal protective equipment, seek advice from your chemical suppliers if necessary.

Personal protective equipment must bear the CE marking certifying its compliance with current standards.

Provide emergency showers with visocular basin.

#### HAND PROTECTION

Protect your hands with category III work gloves.

For the final choice of the material of the work gloves (ref. EN 374 standard) the following must be considered: compatibility, degradation, permeation time. In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as it is not foreseeable. Gloves have a wear time that depends on the duration and mode of use.

#### SKIN PROTECTION

Personal skin protection is usually not necessary. Skin protection required for: splashing, skin contact, spray application If necessary, wear long-sleeved workwear and safety footwear for professional use of category I (ref. Regulation 2016/425 and EN ISO 20344 standard). Wash with soap and water after removing protective clothing.

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#### EYE PROTECTION

It is recommended to wear airtight protective goggles (ref. EN ISO 16321 standard).

#### RESPIRATORY PROTECTION

Not required for normal use.

In case of exceeding the threshold value (e.g. TLV-TWA) of the substance or one or more of the substances present in the product, it is recommended to wear a mask with a type A filter whose class (1, 2 or 3) must be chosen in relation to the limit concentration of use. (ref. EN 14387 standard). If gases or vapours of a different nature and/or gases or vapours with particles (aerosols, fumes, mists, etc.) are present, combined filters must be provided.

The use of respiratory protective equipment is necessary if the technical measures adopted are not sufficient to limit the worker's exposure to the threshold values taken into consideration. The protection offered by masks is limited, however.

In the event that the substance in question is odourless or its odour threshold is higher than the relevant TLV-TWA and in an emergency, wear an open-circuit compressed air breathing apparatus (ref. EN 137 standard) or an external air intake respirator (ref. EN 138 standard). For the correct choice of respiratory protective device, refer to EN 529.

# ENVIRONMENTAL EXPOSURE CONTROLS

Emissions from production processes, including those from ventilation equipment, should be controlled for compliance with environmental protection legislation.

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

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

<b>Property</b> Physical State	<b>Value</b> liquid	Information
Color	light green	
Smell	Floral	
Melting or freezing point	unavailable	
Initial boiling point	unavailable	
Inflammability	unavailable	
Lower explosive limit	unavailable	
Upper explosive limit	unavailable	
Flash point	> 90 °C	
Auto-ignition temperature	unavailable	
Decomposition Temperature	unavailable	
ph	7	
Kinematic viscosity	unavailable	
Solubility	Water soluble	
Partition coefficient: n-octanol/water	unavailable	
Vapour pressure	unavailable	
Density and/or Relative Density	unavailable	
Relative vapor density	unavailable	
Particle characteristics	Not applicable	

#### 9.2. Other information

9.2.1. Information on classes of physical hazards

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Information not available

9.2.2. Other security features

VOC (Directive 2010/75/EU) 10,00 % - 100,00 g/litre

Explosive properties Non-explosive
Oxidizing properties Non-oxidizing

# **SECTION 10. Stability and responsiveness**

#### 10.1. Responsiveness

There is no particular danger of reaction with other substances under normal conditions of use.

#### 10.2. Chemical Stability

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

#### 10.3. Possibility of dangerous reactions

Under normal use and storage, no hazardous reactions are to be expected.

#### 10.4. Conditions to be avoided

None in particular. However, follow the usual caution with regard to 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 defined in Regulation (EC) No 1272/2008

Metabolism, kinetics, mechanism of action and other information

I Information not available

Information on probable routes of exposure

Information not available

Immediate, delayed and chronic effects from short- and long-term exposures

Information not available

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#### Interactive effects

Information not available

#### ACUTE TOXICITY

ATE (Inhalation) of the mixture:

ATE (Oral) of the mixture:

Unclassified (no relevant components)

Unclassified (no relevant components)

Unclassified (no relevant components)

Unclassified (no relevant components)

3-metossi-3-methyl-1-butanolo

LD50 (Cutanea): > 2000 mg/kg Ratto
LD50 (Oral): 4400 mg/kg Female rat

PROPANE-2-OLO

 LD50 (Cutanea):
 12800 mg/kg Rat

 LD50 (Oral):
 4710 mg/kg Rat

 LC50 (Vapor Inhalation):
 72.6 mg/l/4h Rat

Hydrogenated castor oil

 $\begin{array}{ll} \text{LD50 (Cutanea):} & > 2000 \text{ mg/kg ratto} \\ \text{LD50 (Oral):} & > 10000 \text{ mg/kg ratto} \\ \end{array}$ 

#### SKIN CORROSION / SKIN IRRITATION

Does not meet the classification criteria for this hazard class

#### SEVERE EYE DAMAGE/EYE IRRITATION

Causes severe eye irritation

#### RESPIRATORY OR SKIN SENSITIZATION

Does not meet the classification criteria for this hazard class

#### 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

#### SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

#### SPECIFIC TARGET ORGAN TOXICITY (STOT) - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

#### DANGER IN CASE OF SUCTION

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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 any substances listed in the main European lists of potential or suspected endocrine disruptors with effects on human health under evaluation.

# **SECTION 12. Ecological information**

Use according to good working practices, avoiding dispersing the product into the environment. Notify the competent authorities if the product has reached watercourses or if it has contaminated soil or vegetation.

# 12.1. Toxicity

PROPANE-2-OLO

LC50 - Fish > 100 mg/l/96h leuciscus idus melanotus, statico

EC50 - Crustaceans > 100 mg/l/48h Daphnia magna Static test

EC50 - Algae / Aquatic Plants > 100 mg/l/72h scenedesmus subspicatus. Prova statica

3-metossi-3-methyl-1-butanolo

LC50 - Fish > 100 mg/l/96h Oryzias latipes
EC50 - Crustaceans > 1000 mg/l/48h Daphnia Magna

EC50 - Algae / Aquatic Plants > 1000 mg/l/72h Raphidocelis subcapitata

Hydrogenated castor oil

 $LC50 - Fish > 10000 \ mg/l/96h \ Brachydanio \ rerio \\ EC50 - Crustaceans > 100 \ mg/l/48h \ Daphnia \ magna$ 

EC50 - Algae / Aquatic Plants > 100 mg/l/72h Desmodesmus subspicatus

# 12.2. Persistence and degradability

PROPANE-2-OLO

Quickly degradable

3-metossi-3-methyl-1-butanolo

Quickly degradable

#### 12.3. Bioaccumulation potential

PROPANE-2-OLO

Partition coefficient: n-octanol/water 0,05

3-metossi-3-methyl-1-butanolo

Partition coefficient: n-octanol/water 0,18

Hydrogenated castor oil

Partition coefficient: n-octanol/water 23.94 Log Kow

#### 12.4. Mobility in soil

Information not available

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

Based on the available data, the product does not contain PBT or vPvB substances in a percentage ≥ to 0.1%.

#### 12.6. Endocrine Disrupting Properties

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

#### 12.7. Other adverse effects

Information not available

# **SECTION 13. Disposal considerations**

#### 13.1. Waste treatment methods

Reuse, if possible. Product residues are to be considered hazardous special waste. The hazardousness of waste containing part of this product must be assessed in accordance with the applicable legal provisions.

Disposal must be entrusted to a company authorized to manage waste, in compliance with national and possibly local legislation.

#### CONTAMINATED PACKAGING

Contaminated packaging must be sent for recovery or disposal in compliance with national waste management regulations.

# **SECTION 14. Transportation Information**

The product is not to be considered dangerous under the current regulations on the transport of dangerous goods by road (A.D.R.), by rail (RID), by sea (IMDG Code) and by air (IATA).

#### 14.1. UN number or ID number

Not applicable

#### 14.2. Official UN transport designation

Not applicable

## 14.3. Transport hazard classes

Not applicable

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14.4. Packaging group			
Not applicable			
14.5. Hazards to the env	ironment		
Not applicable			
14.6. Special precaution	s for users		
Not applicable			
14.7. Bulk shipping in a	ccordance with IMO acts		
nformation not applicable			
SECTION 15. Ro	egulatory Information		
15.1. Laws and regula	tions on health, safety and the environn	nent specific to the substance or	r mixture
Seveso Category - Direct	ve 2012/18/EU: None		
Restrictions on the produc	ct or substances contained in Annex XVII R	Regulation (EC) 1907/2006	
	tor substantes contained in Annex XVIII A	<u>.oguidion (20) 1301/2300</u>	
<u>Product</u> Point	3 - 40		
Substances			
Point	75		
Regulation (EU) 2019/114	8 - on the marketing and use of explosives	s precursors	
Not applicable			
Sostanze in Candidate Lis	st (Art. 59 REACH)		
sased on the available da	ta, the product does not contain SVHC sub	ostances in a percentage ≥ to 0.1%	•
Substances subject to au	horisation (Annex XIV REACH)		
None			

#### 

Substances subject to export notification Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Health Checks

Workers exposed to this chemical agent dangerous to health must be subjected to health surveillance carried out in accordance with the provisions of art.
41 of Legislative Decree 81 of 9 April 2008 unless the risk to the safety and health of the worker has been assessed as irrelevant, in accordance with the provisions of art. 224 paragraph 2.

#### 15.2. Chemical Safety Assessment

A chemical safety assessment has been developed for the following substances contained in the mixture: 3-methoxy-3-methyl-1-butanol, 2-propanol.

#### **SECTION 16. Other information**

Text of the hazard statements (H) mentioned in sections 2-3 of the sheet:

Flam. Liq. 2 Flammable liquid, category 2

Eye Irrit. 2 Eye irritation, category 2

STOT SE 3 Specific Target Organ Toxicity - Single Exposure, Category 3

H225 Easily flammable liquid and vapours.
 H319 It causes severe eye irritation.
 H336 It can cause drowsiness or dizziness.

#### LEGEND:

- ADR: European Agreement for the Carriage of Dangerous Goods by Road
- ATE/STA: Acute Toxicity Estimation
- CAS: Chemical Abstract Service Number
- EC: Identification number in ESIS (European Repository of Existing Substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived level with no effect
- EC50: Concentration that affects 50% of the population being tested
- EmS: Emergency Schedule
- GHS: Global Harmonized System for the Classification and Labelling of Chemicals
- IATA DGR: Regulations for the Carriage of Dangerous Goods of the International Air Transport Association
- IC50: Immobilization concentration of 50% of the test population
- IMDG: International Maritime Code for the Transport of Dangerous Goods
- IMO: International Maritime Organization
  INDEX: Identification number in Annex VI of the CLP
- LC50: Lethal concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational exposure level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predictable environmental concentration
- PEL: Predictable level of exposure
- PMT: Persistent, mobile, and toxic

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- PNEC: Predictable no-effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulations for the International Carriage of Dangerous Goods by Train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that must not be exceeded during any time of occupational exposure.
- TWA: Weighted Average Exposure Limit
- TWA STEL: Short-Term Exposure Limit
- VOC: Volatile Organic Compound vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Aquatic hazard class (Germany).

#### GENERAL BIBLIOGRAPHY:

- 1. Regulation (EC) 1907/2006 of the European Parliament (REACH)
- 2. Regulation (EC) 1272/2008 of the European Parliament (CLP)
- 3. Regulation (EU) 2020/878 (Annex II REACH Regulation)
- 4. Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP) 5. Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
- 6. Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)
- 7. Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
- 8. Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
- 9. Regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)
- 10. Regulation (EÚ) 2015/1221 of the European Parliament (VII Atp. CLP)
- 11. Regulation (EU) 2016/918 of the European Parliament (VIII Atp. CLP)
- 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 (EU) 2018/1480 (XIII ATP. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (EU) 2020/217 (XIV ATP. CLP) 19. Delegated Regulation (EU) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (EU) 2021/643 (XVI ATP. CLP)
- 21. Delegated Regulation (EU) 2021/849 (XVII Atp. CLP) 22. Delegated Regulation (EU) 2022/692 (XVIII Atp. CLP)
- 23. Delegated Regulation (EU) 2023/707
- 24. Delegated Regulation (EU) 2023/1434 (XIX Atp. CLP)
- 25. Delegated Regulation (EU) 2023/1435 (XX Atp. CLP)
- The Merck Index. 10th Edition

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

## Note to the user:

The information contained in this sheet is based on the knowledge available to us at the date of the last version. The user must ensure that the information is suitable and complete in relation to the specific use of the product.

This document should not be construed as a guarantee of any specific property of the product.

Since the use of the product does not fall under our direct control, it is the user's obligation to observe the laws and regulations in force on hygiene and safety under their own responsibility. They do not accept responsibility for improper use.

Provide adequate training to personnel involved in the use of chemical products.

#### CLASSIFICATION CALCULATION METHODS

Chemical and physical hazards: The classification of the product has been derived from the criteria established by the CLP Regulation Annex I Part 2. The methods for evaluating the chemical and physical properties are given in section 9.

Health hazards: The classification of the product is based on the calculation methods set out in Annex I of CLP Part 3, unless otherwise indicated in section

Environmental hazards: The classification of the product is based on the calculation methods set out in Annex I of CLP Part 4, unless otherwise indicated in section 12.