

# 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: 0030203  
Denomination: ROBOGRES  
Chemical name and synonyms: ROBOGRES

### 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

Name: MARBEC S.R.L.  
Address: VIA CROCE ROSSA 5/i  
Location and State: 51037 MONTALE (PISTOIA)  
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  
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  $\geq$  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)
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**3-metossi-3-methyl-1-butanolo**

INDEX -	$3 \leq x < 9$	Eye Irrit. 2 H319
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CE 260-252-4

CAS 56539-66-3

Reg. REACH 01-2119976333-33-xxxx

**0030203 - ROBOGRES****PROPANE-2-OLO**

INDEX 603-117-00-0

 $3 \leq x < 9$ 

Flam. Liq. 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 -

 $1 \leq x < 3$ 

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:** Discard any contact lenses. Wash immediately and thoroughly with water for at least 15 minutes, opening the eyelids wide. Seek medical attention if the problem persists.

**SKIN:** To take off contaminated clothes. Wash immediately and thoroughly with water. If irritation persists, seek medical attention. Wash contaminated clothing before using it again.

**INHALATION:** Take the subject to fresh air. If breathing is difficult, call a doctor immediately.

**INGESTION:** Seek medical attention immediately. Induce vomiting only on the advice of the doctor. Do not administer anything orally if the subject is unconscious and unless authorized by the physician.

**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.

**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.

## SECTION 7. Handling and storage

### 7.1. Precautions for safe handling

## 0030203 - ROBOGRES

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):

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## 7.3. Special end-uses

Information not available

## SECTION 8. Exposure/Personal Protection Controls

### 8.1. Control parameters

Regulatory references:

DEU	Germany	Research Association MAK and BAT Values List 2022 Permanent Senate Commission for the Examination of Hazardous Substances in the Workplace Communication 58
Extrasensory perception BETWEEN	España	Occupational exposure limits for chemical agents in Spain 2023
	France	Occupational exposure limit values for chemical agents in France Decree No. 2021-1849 of 28 December 2021
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
	TLV-ACGIH	ACGIH 2023

### 3-metossi-3-methyl-1-butanolo

#### Health - Derived Level of No-Effect - DNEL / DMEL

Exhibition Street	Effects on consumers			Effects on workers				
	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-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	

#### 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

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

**Hydrogenated castor oil**

Health - Derived Level of No-Effect - DNEL / DMEL									
Exhibition Street	Effects on consumers			Effects on workers					
	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.

**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

Property	Value	Information
Physical State	liquid	
Color	blue	
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	Concentration: 100 %
Kinematic viscosity	unavailable	
Solubility	Water soluble	
Partition coefficient: n-octanol/water	unavailable	
Vapour pressure	unavailable	
Density and/or Relative Density	1 kg/l	Temperatura: 20 °C
Relative vapor density	unavailable	
Particle characteristics	Not applicable	

### 9.2. Other information

#### 9.2.1. Information on classes of physical hazards

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

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

#### Interactive effects

Information not available

#### ACUTE TOXICITY

ATE (Inhalation) of the mixture:

Unclassified (no relevant components)

ATE (Oral) of the mixture:

Unclassified (no relevant components)

ATE (Cutaneous) of the mixture: 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

LD50 (Cutanea): > 2000 mg/kg ratto  
LD50 (Oral): > 10000 mg/kg ratto

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

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

### 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  $\geq$  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

**14.4. Packaging group**

Not applicable

**14.5. Hazards to the environment**

Not applicable

**14.6. Special precautions for users**

Not applicable

**14.7. Bulk shipping in accordance with IMO acts**

Information not applicable

**SECTION 15. Regulatory Information****15.1. Laws and regulations on health, safety and the environment specific to the substance or mixture**

Seveso Category - Directive 2012/18/EU: None

Restrictions on the product or substances contained in Annex XVII Regulation (EC) 1907/2006

Product  
Point 3 - 40

Substances  
Point 75

Regulation (EU) 2019/1148 – on the marketing and use of explosives precursors

Not applicable

Sostanze in Candidate List (Art. 59 REACH)

Based on the available data, the product does not contain SVHC substances in a percentage  $\geq$  to 0.1%.

Substances subject to authorisation (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:

<b>Flam. Liq. 2</b>	Flammable liquid, category 2
<b>Eye Irrit. 2</b>	Eye irritation, category 2
<b>STOT SE 3</b>	Specific Target Organ Toxicity - Single Exposure, Category 3
<b>H225</b>	Easily flammable liquid and vapours.
<b>H319</b>	It causes severe eye irritation.
<b>H336</b>	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
- 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 (EU) 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 11.

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.