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:	**00401154**
Name	**SEIGENICO SODIUM PERCARBONATE**
Chemical name and synonyms	**SODIUM PERCARBONATE**
CE Name	**Disodium carbonate, compound with hydrogen peroxide (2:3)**
EC number	**239-707-6**
CAS Number	**15630-89-4**
Registration Number	**01-2119457268-30-xxxx**

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

Area of use	**SU22 – Professional Uses SU21- Consumer Uses**
Product Category	**PC35 – Washing and cleaning products (including solvent-based products)**
Description/Use	**Granular powder bleaching and stain remover additive**

1.3. Information on the safety data sheet provider

Company 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
+39 0573959848 8.30 a.m.-1 p.m. 2 p.m.-6 p.m. / +393348578502
Telephone number of Poison Control Centers active 24 hours a day
IRCSS Maugeri Foundation –
Pavia 0039-0382-24444
CAV Ospedali Riuniti –
Bergamo 0039-800-883300
CAV Niguarda Ca' Granda Hospital –
Milan 0039-02-66101029
CAV Careggi Hospital- Florence 0039-055-7947819
CAV Policlinico Gemelli –
Rome 0039-06-3054343
CAV Policlinico Umberto I –
Rome 0039-06 49978000
CAV Cardarelli Hospital –
Naples 0039-081 5453333
CAV Azienda Ospedaliera Integrata Verona - Verona 800011858

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:

Oxidizing solid, category 3	H272	It can aggravate a fire; oxidizer.
Acute toxicity, category 4	H302	Harmful was ingested.
Serious eye injuries, category 1	H318	It causes serious eye damage.

2.2. Label elements

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

Hazard pictograms:

Warnings: Danger

Hazard statements:

H272 May intensify fire; oxidiser.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220 Keep away from clothing and other combustible materials.

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

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P310 Contact a POISON CENTER / doctor / . . . immediately

P370+P378 In the event of a fire: use carbon dioxide and chemical powder to extinguish.

P264 Wash hands thoroughly after handling.

sodium percarbonate
EC No.: 239-707-6

2.3. Other hazards

The substance has no persistence, bioaccumulation and toxicity (PBT) properties and is not very persistent and very bioaccumulative (vPvB).

The substance has no endocrine disrupting properties.

SECTION 3. Composition/ingredient information

3.1. Substances

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
sodium percarbonate		
INDEX -	85 ≤ C < 100	Ox. Sol. 3 H272, Acute Tox. 4 H302, Eye Dam. 1 H318
CE 239-707-6		LD50 Oral: 1034 (rat) mg/kg LD Dermal >2000 (rabbit) mg/kg
CAS 15630-89-4		
Reg. REACH 01-2119457268-30-xxxx		

Impurities:

SODIUM CARBONATE	
INDEX 011-005-00-2	C < 11
CE 207-838-8	
CAS 497-19-8	
Reg. REACH 01-2119485498-19	
Sodium Silicate	
INDEX -	
CE 215-687-4	C < 2
CAS 1344-09-8	

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

Information not available

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

Contact a POISON CENTER / doctor / . . . immediately

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 and chemical powder. For product leaks and spills that have not ignited, water mist can be used to disperse flammable vapors and protect people committed to stopping the leak.
UNSUITABLE MEANS OF EXTINGUISHING
Do not use water jets.
Water is not effective at extinguishing fire, however it can be used to cool closed containers exposed to flame, preventing explosions and explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS DUE TO EXPOSURE IN THE EVENT OF FIRE
The product, if involved in significant quantities in a fire, can aggravate it considerably. Avoid breathing in the combustion products.

5.3. Recommendations for firefighters

GENERAL INFORMATION
In the event of a fire, cool the containers immediately to avoid the danger of explosion (product decomposition, overpressure) and the development of substances that are potentially hazardous to health. Always wear full fire protection equipment. If possible without risk, remove the containers containing the product from the fire.
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

Avoid dust formation by spraying the product with water if there are no contraindications.
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

Collect the spilled product and place it in containers for recovery or disposal. Remove the residue with water jets if there are no contraindications. Provide sufficient ventilation of the place affected by the leak. Evaluate the compatibility of the container to be used with the product, checking section 10. 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

Ensure an adequate grounding system for systems and people. Avoid contact with eyes and skin. Do not inhale any dust or vapors or mists. Do not eat, drink, or smoke during use. Wash hands after use. Avoid dispersing the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a ventilated place, away from ignition sources. Keep containers tightly sealed. Keep the product in clearly labeled containers. Avoid overheating. Avoid violent impacts. Store containers away from any incompatible materials, checking section 10.

Storage class TRGS 510 (Germany):
5.1B

7.3. Special end-uses

Information not available

SECTION 8. Exposure/Personal Protection Controls

8.1. Control parameters

Regulatory references:

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.

Disodium carbonate, composed with hydrogen peroxide (2:3)

Threshold limit value

Type	Status	TWA/8h		STEL/15min		Notes / Remarks
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	10				INALAB
OEL	EU	5				RESPIR

Predicted concentration of no effect on the environment - NECP		
Reference value in fresh water	0,035	mg/l
Water reference value, intermittent release	0,035	mg/l

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
Inhalation							5 mg/m3	VND

Dermal	6.4 mg/cm2	VND			12.8 mg/cm2	VND		

SODIUM CARBONATE

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
Inhalation			10 mg/m3				10 mg/m3	

Sodium Silicate

Predicted concentration of no effect on the environment - NECP

Reference value in fresh water	7,5	mg/l
Reference value in seawater	1	mg/l
Reference value for seawater, intermittent release	7,5	mg/l
Reference value for STP microorganisms	348	mg/l

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				0.8 mg/kg bw/d				
Inhalation				1.38 mg/m3				5.61 mg/m3
Dermal				0.8 mg/kg bw/d				1.59 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
If prolonged contact with the product is expected, it is recommended to protect your hands with penetration-resistant work gloves (ref. EN 374 standard).
For the final choice of the material of the work gloves, the process of use of the product and any other products derived from it must also be evaluated. It should also be remembered that latex gloves can give rise to sensitization phenomena.

SKIN PROTECTION
Wear long-sleeved work clothes 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).

If there is a risk of being exposed to splashes or splashes in relation to the work carried out, adequate protection of the mucous membranes (mouth, nose, eyes) must be provided in order to avoid accidental absorption.

RESPIRATORY PROTECTION
We recommend the use of a type P filtering face mask whose class (1, 2 or 3) and actual need must be defined according to the outcome of the risk assessment (ref. EN 149 standard).

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

Properties	Value	Information
Physical State	Crystalline powder	
Color	White	
Odor	odorless	
Melting or freezing point	Out of stock	Note: Decays on heat
Initial boiling point	Out of stock	Note: Decays on heat
Flammability	non-flammable	
Lower explosive limit	Out of stock	
Upper explosive limit	Out of stock	
Flash point	Out of stock	Reason for lack of data:Not applicable
Auto-ignition temperature	Out of stock	Reason for lack given:Rots under heat
Decomposition Temperature	> 110 °C	
pH	10,4 - 10,6	Note: Solution 10 gr/lt Concentration: 1 %
Kinematic viscosity	Out of stock	Reason for lack of data:Not applicable
Solubility	140 g/l	Temperature: 20 °C
Partition coefficient: n-octanol/water	Out of stock	
Vapour pressure	Out of stock	Note:Negligible at 25°C
Density and/or Relative Density	2.01-2.16 g/cm3	
Relative vapor density	Out of stock	
Particle characteristics	Out of stock	

9.2. Other information

9.2.1. Information on classes of physical hazards

Information not available

9.2.2. Other security features

Explosive properties	Non-explosive
Oxidizing properties	Oxidizer. In the event of a fire, it feeds combustion

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

Dusts are potentially explosive when mixed with air.

10.4. Conditions to be avoided

Avoid the accumulation of dust in the environment.

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

LD50 (Cutaneous):	> 2000 mg/kg
LD50 (Oral):	1034 mg/kg
LD50 (Cutaneous):	> 2000 mg/kg rabbit
LD50 (Oral):	2800 mg/kg ratto
LC50 (Mist/Dust Inhalation):	2300 mg/l/2h Ratto
LD50 (Cutaneous):	> 5000 mg/kg Rat

LD50 (Oral):	3400 mg/kg Ratto
LC50 (Mist/Dust Inhalation):	> 2.06 mg/l/4h rat

SKIN CORROSION / SKIN IRRITATION

Does not meet the classification criteria for this hazard class

SEVERE EYE DAMAGE/EYE IRRITATION

Causes serious eye damage

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 substance is not 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

LC50 - Fish	300 mg/l/96h lepomis macrochirus
EC50 - Crustaceans	200 mg/l/48h daphnia magna

LC50 - Fish	70.7 mg/l/96h
EC50 - Crustaceans	4.9 mg/l/48h
EC50 - Algae / Aquatic Plants	2.62 mg/l/72h
NOEC Chronic Algae / Aquatic Plants	2 mg/l

12.2. Persistence and degradability

Water solubility	1000 - 10000 mg/l

Degradability: data not available

Quickly degradable
NOT rapidly degradable

12.3. Bioaccumulation potential

Information not available

12.4. Mobility in soil

Information not available

12.5. Results of the PBT and vPvB assessment

The substance has no persistence, bioaccumulation and toxicity (PBT) properties and is not very persistent and very bioaccumulative (vPvB).

12.6. Endocrine Disrupting Properties

Based on the available data, the substance is not 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.
The transport of waste may be subject to ADR.
The management of waste originating from the use or dispersion of this product must be organized in compliance with the regulations relating to safety at work. See section 8 for any need for PPE supplies.
CONTAMINATED PACKAGING
Contaminated packaging must be sent for recovery or disposal in compliance with national waste management regulations.

SECTION 14. Transportation Information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: UN 3378

14.2. Official UN transport designation

ADR/RID: SODIUM CARBONATE PEROXIDE
IMDG: SODIUM CARBONATE PEROXYHYDRATE
IATA: SODIUM CARBONATE PEROXYHYDRATE

14.3. Transport hazard classes

ADR/RID: Class: 5.1 Label: 5.1
IMDG: Class: 5.1 Label: 5.1
IATA: Class: 5.1 Label: 5.1

14.4. Packaging group

ADR / RID, IMDG, IATA: III

14.5. Hazards to the environment

ADR/RID: NO
IMDG: non-polluting marine
IATA: NO

14.6. Special precautions for users

ADR/RID:	HIN - Kemler: 50	Limited quantities: 5 kg	Restriction code in the gallery: (E)
	Special Provision:-		
IMDG:	EMS: F-A, S-Q	Limited quantities: 5 kg	
IATA:	Cargo:	Maximum quantity: 100 kg	Packaging Instructions: 563
	Passengers:	Maximum quantity: 25 kg	Packaging Instructions: 559
	Special Provision:	-	

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: P8

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

Substances contained

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 ≥ 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.

Classification for water pollution in Germany (AwSV, vom 18. April 2017)

WGK 1: Not very dangerous for water

Substance in Annex 2

15.2. Chemical Safety Assessment

A chemical safety assessment was carried out for the substance.

SECTION 16. Other information

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

Ox. G. 3	Oxidizing solid, category 3
Acute Tox. 4	Acute toxicity, category 4
Eye Dam. 1	Serious eye injuries, category 1
H272	It can aggravate a fire; oxidizer.
H302	Harmful was ingested.
H318	It causes serious eye damage.

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)
26. Delegated Regulation (EU) 2024/197 (XXI Atp. CLP)
- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Toxicological sheet
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- 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.