

# Safety Data Sheet

Complies with Annex II of REACH - Regulation (EU) 2020/878

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

### 1.1. Product identifier

Code: 0036155  
Name: KW-L  
Chemical name and synonyms: KW-L

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

Sector of use: **SU22 – Professional uses**  
Product category: **PC31 – Polishes and wax mixtures**  
Uses advised against: **Uses other than those described Do not use in combination with other products**  
Description/Usage: **Liquid crystallizer for marble and limestone**

### 1.3. Details of the supplier of the safety data sheet

Business name: **MARBEC SRL**  
Address: **VIA CROCE ROSSA 5/i**  
Location and State: **51037 MONTALE (PISTOIA)**  
**ITALY**  
tel. **+039 0573/959848**  
fax

e-mail of the competent person,  
responsible for the safety data sheet

**info@marbec.it**

### 1.4. Emergency telephone number

For urgent inquiries please contact  
**MARBEC srl +390573959848 h8.30-13 h14-18 or +393348578502**  
**Telephone number of Poison Control Centers active 24/24 hours**  
**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 Gemelli Polyclinic –**  
**Rome 0039-06-3054343**  
**CAV Umberto I Polyclinic –**  
**Rome 0039-06 49978000**  
**CAV Cardarelli Hospital –**  
**Naples 0039-081 5453333**  
**CAV Integrated Hospital Verona - Verona 800011858**

## SECTION 2. Hazards identification

## 2.1. Substance or mixture classification

The product is classified as dangerous pursuant to the provisions of Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and adjustments). 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 given in sections. 11 and 12 of this sheet.

### Hazard classification and indications:

Acute toxicity, category 4

H302

Harmful if swallowed.

Serious eye damage, category 1

H318

Causes serious eye damage.

## 2.2. Label elements

Hazard labeling pursuant to Regulation (EC) 1272/2008 (CLP) and subsequent amendments and adjustments.

### Hazard pictograms:



Warnings:

Danger

### Indications of danger:

**H302**  
**H318**

Harmful if swallowed.  
Causes serious eye damage.

### Precautionary statements:

**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 eye protection / face protection.

**P310**

Immediately call a POISON CENTER / doctor / . . .

**P264**

Wash . . . thoroughly after handling.

**P330**

Rinse mouth.

### Contains:

Magnesium hexafluorosilicate hexahydrate, Acetic acid.

Product not intended for the uses envisaged by Directive 2004/42/EC.

## 2.3. Other dangers

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

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

## SECTION 3. Composition/information on ingredients

### 3.2. Blends

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
<b>Magnesium hexafluorosilicate hexahydrate</b> CAS 18972-56-0 EC 241-022-2 INDEX - REACH Reg. 01-2119980031-47	$10 \leq x < 25$	Acute Tox. 3 H301, Acute Tox. 4 H332, Eye Dam. 1 H318, Aquatic Chronic 3 H412 Oral LD50: 200 mg/l/4h, LC50 Inhalation mists/dusts: 3.6 mg/l/4h
<b>ACETIC ACID</b> CAS 64-19-7 CE 200-580-7 INDEX 607-002-00-6 REACH Reg. 01-2119475328-30-xxxx	$1 \leq x < 3$	Flam. Liq. 3 H226, Skin Corr. 1A H314, Eye Dam. 1 H318, Classification note according to Annex VI of the CLP Regulation: B Skin Corr. 1A H314: $\geq 90\%$ , Skin Corr. 1B H314: $\geq 25\%$ , Skin Irrit. 2 H315: $\geq 10\%$ , Eye Dam. 1 H318: $\geq 25\%$ , Eye Irrit. 2H319: $\geq 10\%$

The complete text of the danger indications (H) is given in section 16 of the sheet.

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

**EYES:** Remove any contact lenses. Wash immediately and abundantly with water for at least 30/60 minutes, opening the eyelids wide. Consult a doctor immediately.

**SKIN:** Take off all contaminated clothing. Take a shower immediately. Consult a doctor immediately.

**INGESTION:** Drink as much water as possible. Consult a doctor immediately. Do not induce vomiting unless specifically authorized by your doctor.

**INHALATION:** Call a doctor immediately. Move the person to fresh air away from the scene of the accident. If breathing stops, give artificial respiration. Take appropriate precautions for the rescuer.

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

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

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

Information not available

## SECTION 5. Fire fighting measures

### 5.1. Fire fighting

#### SUITABLE EXTINGUISHING MEANS

Choose the most appropriate extinguishing media for the specific situation.

**UNSUITABLE EXTINGUISHING MEANS**

No one in particular.

**5.2. Special hazards arising from the substance or mixture****HAZARDS DUE TO EXPOSURE IN THE EVENT OF FIRE**

The product is not flammable or combustible.

**5.3. Recommendations for firefighters****EQUIPMENT**

Normal fire fighting 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. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Stop the leak if there is no danger.

Wearing of suitable protective equipment (including personal protective equipment referred to in section 8 of the safety data sheet) to prevent contamination of skin, eyes and personal clothing. These indications are valid both for those involved in the work and for emergency interventions.

**6.2. Environmental precautions**

Prevent the product from entering sewers, surface waters and groundwater.

**6.3. Methods and materials for containment and cleaning up**

Suck the spilled product into a suitable container. Assess 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 must be carried out in accordance with the provisions of point 13.

**6.4. Reference to other sections**

Any information regarding individual protection and disposal is given in sections 8 and 13.

**SECTION 7. Handling and storage****7.1. Precautions for Safe Handling**

Avoid contact with skin and eyes, inhalation of vapors and mists.

Do not use empty containers before they have been cleaned.

Before transfer operations, make sure that there are no incompatible materials left in the containers.

Contaminated clothing must be changed before entering dining areas. At work do not eat or drink.

Please also refer to paragraph 8 for the recommended protective devices.

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

Store in an area used for acid products, away from alkaline products and chlorine-based oxidants.

Store away from sunlight. Store in cool and well-ventilated places.

Do not store in open or unlabeled containers. Keep away from food, drink and feed.

Incompatible materials:

See paragraph 10 below. Indication for premises:  
Adequately ventilated premises.

Storage class TRGS 510 (Germany):  
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### 7.3. Particular end uses

Information not available

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

Normative requirements:

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	Spain	Professional exhibition limits for chemical agents in Spain 2021
BETWEEN	France	Values limiters of professional exposure to chemical agents in France. ED 984 - INRS
ITA	Italy	Legislative Decree 9 April 2008, n.81
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valoris-limite de exposição profissional indicativa for chemical agents. Decreto-Lei n.º 35/2020 of 13 July, protection of workers against the risks associated with exposure during the work of cancerous or mutagenic agents
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	EU OEL	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2021

### Magnesium hexafluorosilicate hexahydrate

#### Threshold limit value

Guy	State	TWA/8h	STEL/15min	Notes / Observations
		mg/m3	ppm	
TLV-ACGIH		2.5		
Predicted no-effect concentration for the environment - PNEC				
Reference value in fresh water			0.9	mg/l
Reference value in sea water			0.9	mg/l
Reference value for STP microorganisms			51	mg/l
Reference value for the terrestrial compartment			11	mg/kg

#### Health - Derived no-effect level - DNEL / DMEL

Exposure route	Effects on consumers			Effects on workers				
	Sharp rooms	Acute systemic	Chronic premises	Chronic systemic	Sharp rooms	Acute systemic	Chronic premises	Chronic systemic
Inhalation						2.5mg/m3	2.5mg/m3	2.5mg/m3

### ACETIC ACID

#### Threshold limit value

Guy	State	TWA/8h	STEL/15min	Notes / Observations
		mg/m3	ppm	
AGW extension	DEU	25	10	50 (C) 20 (C)
MAK	DEU	25	10	50 20
VLA extension	ESP	25	10	50 20

VLEP extension	BETWEEN	25	10	50	20
VLEP extension	ITA	25	10	50	20
VLE	PRT	25	10	50	20
WEL	GBR	25	10	50	20
OEL extension	EU	25	10	50	20
TLV-ACGIH		25	10	37	15

#### Predicted no-effect concentration for the environment - PNEC

Reference value in fresh water	3.058	mg/l
Reference value in sea water	0.3058	mg/l
Reference value for sediments in fresh water	1.136	mg/kg/d
Reference value for sediments in marine water	1.136	mg/kg/d
Reference value for water, intermittent release	30.58	mg/l
Reference value for STP microorganisms	85	mg/l
Reference value for the terrestrial compartment	0.478	mg/kg/d

#### Health - Derived no-effect level - DNEL / DMEL

Exposure route	Effects on consumers			Effects on workers				
	Sharp rooms	Acute systemic	Chronic premises	Chronic systemic	Sharp rooms	Acute systemic	Chronic premises	Chronic systemic
Inhalation	25 mg/kg		25mg/m3		25mg/m3		25mg/m3	

Legend:

(C) = CEILING ; INALAB = Inhalable Fraction; RESPIR = Respirable Fraction; THORAC = Thoracic fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected; NPI = No Hazards Identified.

## 8.2. Exposure controls

Considering that the use of adequate technical measures should always take priority over personal protective equipment, ensure good ventilation in the workplace through effective local aspiration.

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

Personal protective equipment must bear the CE marking which certifies their compliance with current standards.

Provide for an emergency shower with a visor basin.

### HAND PROTECTION

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

For the final choice of work glove material, the following must be considered: compatibility, degradation, breakthrough time and permeation.

In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as it cannot be foreseen. The gloves have a wear time that depends on the duration and method of use.

### SKIN PROTECTION

Wear long-sleeved work clothes and category I professional safety footwear (ref. Regulation 2016/425 and standard EN ISO 20344). Wash with soap and water after removing protective clothing.

### EYE PROTECTION

It is advisable to wear airtight protective goggles (ref. standard EN 166).

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**

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

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

In the event that the substance in question is odorless or its olfactory threshold is higher than the relevant TLV-TWA and in case of emergency, wear an open-circuit compressed air respirator (ref. standard EN 137) or a plug-in respirator external air (ref. standard EN 138). For the correct choice of respiratory protection device, refer to the EN 529 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 basic physical and chemical properties**

Property	Value	Information
Physical state	liquid	
Color	white	
Odor	characteristic	
Melting or freezing point	Not applicable	
Initial boiling point	Not available	
Flammability	incombustible	
Lower explosive limit	Not applicable	
Upper explosive limit	Not applicable	
Flash point	> 90°C	
Self-ignition temperature	Not available	
pH	1	
Kinematic viscosity	Not available	
Solubility	soluble in water	
Partition coefficient: n-octanol/water	Not available	
Vapor pressure	Not available	
Density and/or Relative Density	1.09 kg/l	
Relative vapor density	Not available	
Particle characteristics	Not applicable	

**9.2. More info****9.2.1. Information relating to classes of physical hazards**

Information not available

**9.2.2. Other security features**

VOC (Directive 2010/75/EU)	1.00% - 10.90 g/litre
VOC (volatile carbon)	0.40% - 4.36 g/litre
Explosive properties	not explosive
Oxidizing properties	non-oxidant

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

There are no particular dangers 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 hazardous reactions

There are no particular dangers of reaction with other substances under normal conditions of use.

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

Information not available

### 10.6. Hazardous decomposition products

Due to thermal decomposition or in case of fire, gases and vapors potentially harmful to health can be released.

## SECTION 11. Toxicological information

### 11.1. Information on the hazard classes defined in Regulation (EC) no. 1272/2008

#### Metabolism, kinetics, mechanism of action and other information

Information not available

#### Information on likely routes of exposure

Information not available

#### Immediate, delayed and chronic effects resulting from short and long term exposure

Information not available

#### Interactive effects

Information not available

#### ACUTE TOXICITY

ATE (Inhalation - mists / dusts) of the mixture:	> 5 mg/l
ATE (Oral) of the mix:	800.00 mg/kg
ATE (Dermal) of the mixture:	Not classified (no relevant component)

#### Magnesium hexafluorosilicate hexahydrate

LD50 (Oral):	200 mg/kg guinea pig
LC50 (Inhalation of mists/dust):	3.6 mg/l/4h rat

#### ACETIC ACID

LD50 (Oral):	3310 mg/kg Rat
LC50 (Inhalation of vapours):	> 16000ppm/4h Rat

#### SKIN CORROSION / SKIN IRRITATION

Does not meet the classification criteria for this hazard class

#### SERIOUS EYE DAMAGE / EYE IRRITATION

Causes serious eye damage

#### RESPIRATORY OR SKIN SENSITIZATION

Does not meet the classification criteria for this hazard class

#### Respiratory sensitization

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

Information not available

Harmful effects on offspring development

Information not available

Effects on or through breastfeeding

Information not available

SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

SPECIFIC TARGET ORGAN TOXICITY (STOT) - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

DANGER IN CASE OF ASPIRATION

Does not meet the classification criteria for this hazard class

**11.2. Information about 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 effects on human health under evaluation.

**SECTION 12. Ecological information****12.1. Toxicity****ACETIC ACID**

LC50 - Fish	> 300.82 mg/l/96h oncorhynchus mykiss
EC50 - Crustaceans	> 300.82 mg/l/48h daphnia magna
EC50 - Algae / Aquatic Plants	> 300.82 mg/l/72h sceletonema costatum

**Magnesium hexafluorosilicate hexahydrate**

LC50 - Fish	1000 mg/l/96h barbel rayado
EC50 - Crustaceans	70.7 mg/l/48h daphnia magna
EC50 - Algae / Aquatic Plants	> 34.2 mg/l/72h pseudokirchneriella subcapitata
LC10 Pisces	> 100 mg/l/96h danio rerio

**12.2. Persistence and degradability**

## ACETIC ACID

Solubility in water &gt; 10000 mg/l

Quickly degradable

## Magnesium hexafluorosilicate hexahydrate

Degradability: data not available

**12.3. Bioaccumulative potential**

## ACETIC ACID

Partition coefficient: n-octanol/water -0.17

**12.4. Mobility in soil**

## ACETIC ACID

Partition coefficient: soil/water 1.153

**12.5. Results of PBT and vPvB assessment**Based on available data, the product does not contain PBT or vPvB substances in a percentage  $\geq 0.1\%$ .**12.6. Endocrine disrupting properties**

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

**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 special hazardous waste. The dangerousness of the waste which partially contains this product must be evaluated on the basis of the legislative provisions in force.

Disposal must be entrusted to an authorized waste management company, 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 pursuant to the provisions in force concerning the transport of dangerous goods by road (ADR), by rail (RID), by sea (IMDG Code) and by air (IATA).

**14.1. UN number or ID number**

Not applicable

**14.2. UN proper shipping name**

Not applicable

**14.3. Transport hazard classes**

Not applicable

**14.4. Packing group**

Not applicable

**14.5. Dangers for the environment**

Not applicable

**14.6. Special precautions for user**

Not applicable

**14.7. Shipping in bulk in accordance with IMO acts**

Irrelevant information

**SECTION 15. Regulatory Information**

**15.1. Safety, health and environmental laws and regulations specific to the substance or mixture**

Seveso category - Directive 2012/18/EU: None

Restrictions relating to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006

Product  
Point

3 - 40

Substances contained

Point 75

Regulation (EU) 2019/1148 - concerning the placing on the market and use of explosives precursors

Not applicable

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorization (Annex XIV REACH)

None

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

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Sanitary checks

Workers exposed to this chemical agent dangerous to health must be subjected to health surveillance carried out according to the provisions of art. 41 of Legislative Decree 81 of 9 April 2008 unless the risk to the worker's health and safety 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 prepared for the following substances contained in the mixture:  
Magnesium hexafluosilicate, Acetic acid.

## SECTION 16. Other information

Text of the danger indications (H) mentioned in sections 2-3 of the sheet:

<b>Flam. Liq. 3</b>	Flammable liquid, category 3
<b>Acute Tox. 3</b>	Acute toxicity, category 3
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>Skin Corr. 1A</b>	Skin corrosion, category 1A
<b>Eye Dam. 1</b>	Serious eye damage, category 1
<b>Aquatic Chronic 3</b>	Hazardous to the aquatic environment, chronic toxicity, category 3
<b>H226</b>	Flammable liquid and vapour.
<b>H301</b>	Toxic if ingested.

<b>H302</b>	Harmful if swallowed.
<b>H332</b>	Harmful if inhaled.
<b>H314</b>	It causes serious skin burns and serious eye injuries.
<b>H318</b>	Causes serious eye damage.
<b>H412</b>	Harmful to aquatic life with long lasting effects.

**LEGEND:**

- ADR: European agreement for the carriage of dangerous goods by road
- CAS: Chemical Abstract Service Number
- CE: Identification number in ESIS (European Archive of Existing Substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EC50: Concentration that affects 50% of the population tested
- EmS: Emergency Schedule
- GHS: Globally Harmonized System for the classification and labeling of chemicals
- IATA DGR: Regulations for the transport of dangerous goods of the International Air Transport Association
- IC50: Concentration of immobilisation 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: Level of occupational exposure
- PBT: Persistent, bioaccumulating and toxic according to REACH
- PEC: Predictable environmental concentration
- PEL: Predictable level of exposure
- PNEC: Predicted No Effect Concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation for the international transport of dangerous goods by train
- STA: Acute Toxicity Estimate
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that must not be exceeded during any moment of occupational exposure.
- TWA: Weighted Average Exposure Limit
- TWA STEL: Short Term Exposure Limit
- VOC: Volatile organic compound
- vPvB: Very persistent and very bioaccumulating according to REACH
- 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)
- The Merck Index. - 10th Edition
  - Handling Chemical Safety

- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- NI 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 for the user:**

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

This document should not be interpreted 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 regarding hygiene and safety under his own responsibility. No responsibility is assumed for improper use.

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

**CLASSIFICATION CALCULATION METHODS**

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

Health hazards: The classification of the product is based on the calculation methods 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.

**Changes from the previous revision**

Changes have been made to the following sections:

01 / 02 / 03 / 09 / 11 / 12 / 15 / 16.