

**COLKIM S.r.l.**

Revision nr. 7

Dated 25/03/2019

**CYMINA PLUS**

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## Safety data sheet

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

#### 1.1. Product identifier.

Product name. **CYMINA PLUS**

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

Description/ Intended use. **Concentrated insecticide emulsifiable in water, based on synergized pyrethroids with knock-down and residual action. For professional use in domestic and civil areas.**

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

Name. **COLKIM S.r.l.**  
Full address. **Via Piemonte, 50**  
District and Country. **40064 OZZANO EMILIA (BO)**  
**Italia**  
**Tel. 051 / 799445**  
**Fax. 051 / 797555**E-mail address of the competent person,  
Responsible for the Safety Data Sheet. **info@colkim.it**Product distribution by: **COLKIM S.r.l. - Via Piemonte, 50 - 40064 OZZANO E. (BO)**

#### 1.4. Emergency telephone number.

For urgent inquiries refer to. **118**

Contact a poison control center:

Poison Control Center	Address	Telephone Number
CAV "Osp. Pediatrico Bambino Gesù"	P.zza Sant'Onofrio, 4 – 00165 Roma (RM)	06 68593726
Az. Osp. Univ. Foggia	V.le Luigi Pinto, 1 – 71122 Foggia (FG)	0881 732326
Az. Osp. "A. Cardarelli"	Via A. Cardarelli, 9 – 80131 Napoli (NA)	081 7472870
CAV Policlinico "Umberto I"	V.le del Policlinico, 155 – 00161 Roma (RM)	06 49978000
CAV Policlinico "A. Gemelli"	Largo Agostino Gemelli, 8 – 00168 Roma (RM)	06 3054343
Az. Osp. "Careggi" U.O. Tossicologia Medica	Largo Brambilla, 3 – 50134 Firenze (FI)	055 7947819
CAV Centro Nazionale di Informazione Tossicologica	Via Salvatore Maugeri, 10 – 27100 Pavia (PV)	0382 24444
Osp. Niguarda Ca' Granda	P.zza Ospedale Maggiore, 3 – 20162 Milano (MI)	02 66101029
Azienda Ospedaliera Papa Giovanni XXII	P.zza OMS, 1 – 24127 Bergamo (BG)	800883300

### SECTION 2. Hazards identification.

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

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

## Hazard classification and indication:

Hazardous to the aquatic environment, chronic toxicity, category 1

H410

Very toxic to aquatic life with long lasting effects.

**2.2. Label elements.**

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

Hazard pictograms:



Signal words: Warning

Hazard statements:

**H410** Very toxic to aquatic life with long lasting effects.

Precautionary statements:

**P102** Keep out of reach of children.  
**P270** Do not eat, drink or smoke when using this product.  
**P273** Avoid release to the environment.  
**P280** Wear protective gloves/protective clothing/eye protection/face protection.  
**P301+310** IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
**P391** Collect spillage.  
**P501** Dispose of contents/container in accordance with national regulation.

**2.3. Other hazards.**

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

**SECTION 3. Composition/information on ingredients.****3.1. Substances.**

Information not relevant.

**3.2. Mixtures.**

Contains:

Identification.	Conc.%	Classification 1272/2008 (CLP).
<b>PIPERONYL BUTOXIDE</b> CAS. 51-03-6 EC. 200-076-7 INDEX. - Reg. no. 01-219918969-16-0000	12,5	Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
<b>CYPERMETHRIN</b> CAS. 52315-07-8 EC. 257-842-9 INDEX. 607-421-00-4 Reg. no. 02-2119680758-20-0000	10	Acute Tox. 4 H302, Acute Tox. 4 H332, STOT SE 3 H335, Aquatic Acute 1 H400 M=1000, Aquatic Chronic 1 H410 M=1000
<b>POLIOSSIETILENSORBITAN TRIOLEATO</b> CAS. 9005-70-3	6 - 7	Aquatic Chronic 3 H412



wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS**

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

**SECTION 6. Accidental release measures.**
**6.1. Personal precautions, protective equipment and emergency procedures.**

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

**6.2. Environmental precautions.**

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

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

Collect the leaked product into a suitable container. If the product is flammable, use explosion-proof equipment. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

**6.4. Reference to other sections.**

Any information on personal protection and disposal is given in sections 8 and 13.

**SECTION 7. Handling and storage.**
**7.1. Precautions for safe handling.**

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

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

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

**7.3. Specific end use(s).**

Information not available.

**SECTION 8. Exposure controls/personal protection.**

It have not been set official limits of exposure for the product.

**8.1. Control parameters.**
**Benzensulphonic acid, calcium salt**

Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,023	mg/l
Normal value in marine water	0,0023	mg/l
Normal value for fresh water sediment	0,174	mg/kg
Normal value for marine water sediment	0,0174	mg/kg
Normal value of STP microorganisms	3	mg/l

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

Route of exposure	Effects on consumers.				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Skin.		89 mg/kg/d				1,7 mg/kg/d		

**2-ETHYLHEXANOL**

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

Route of exposure	Effects on consumers.				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.				1,1 mg/kg/d				
Inhalation.		2,3 mg/m3		11,4	106,4	53,2 mg/m3		23
Skin.				11,4 mg/kg/d				23 mg/kg/d

**8.2. Exposure controls.**

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

**HAND PROTECTION**

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

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

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

**SKIN PROTECTION**

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

**EYE PROTECTION**

Wear airtight protective goggles (see standard EN 166).

**RESPIRATORY PROTECTION**

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

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

**ENVIRONMENTAL EXPOSURE CONTROLS.**

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

**SECTION 9. Physical and chemical properties.****9.1. Information on basic physical and chemical properties.**

Appearance	Viscous liquid
Colour	Amber
Odour	Characteristic
Odour threshold.	Not available.
pH.	4,5
Melting point / freezing point.	Not relevant.
Initial boiling point.	Not relevant.
Boiling range.	Not relevant.
Flash point.	> 60 °C.
Evaporation Rate	Not available.
Flammability of solids and gases	not applicable.
Lower flammability limit.	Not applicable.
Upper flammability limit.	Not applicable.
Lower explosive limit.	Not applicable.
Upper explosive limit.	Not applicable.
Vapour pressure.	Not relevant.
Vapour density	Not relevant.
Density.	0,94 Kg/l

Solubility	Emulsionable in water
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	Not applicable
Decomposition temperature.	Not applicable
Viscosity	Not available.
Explosive properties	Not applicable
Oxidising properties	Not applicable

**9.2. Other information.**

Information not available.

**SECTION 10. Stability and reactivity.****10.1. Reactivity.**

There are no particular risks of reaction with other substances in normal conditions of use.

**10.2. Chemical stability.**

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

**10.3. Possibility of hazardous reactions.**

No hazardous reactions are foreseeable in normal conditions of use and storage.

**10.4. Conditions to avoid.**

None in particular.

**10.5. Incompatible materials.**

None in particular.

**10.6. Hazardous decomposition products.**

No applicable.

**SECTION 11. Toxicological information.**

No episodes of damage to health due to exposure to the product are known. In any case it is recommended to operate in compliance with the rules of good industrial hygiene. The preparation may, in particularly sensitive individuals, cause slight health effects due to inhalation and / or cutaneous absorption and / or contact with the eyes and / or ingestion.

**PIPERONYL BUTOXIDE**

Oral toxicity: acute LD50 (rat): 4570 mg/Kg (males) 7220 mg/Kg (females)

Dermal acute toxicity (rabbit): LD50 > 2000 mg/Kg

Acute inhalation toxicity: LC50 (rat) > 5,9 mg/L (4 h)

Irritability: non irritant

Cutaneous sensitization: not sensitizing .

**TETRAMETHRINE**

Oral LD50 (rat): > 2000 mg/Kg

Cutaneous LD50 (rat): > 2000 mg/Kg

Acute inhalation LC50 (rat): 5,63 mg/L .

**11.1. Information on toxicological effects.****ACUTE TOXICITY.**

LC50 (Inhalation - vapours) of the mixture:825,000 mg/l

LC50 (Inhalation - mists / powders) of the mixture: Not classified (no significant component).

LD50 (Oral) of the mixture:4166,667 mg/kg

LD50 (Dermal) of the mixture: Not classified (no significant component).

**2-ETHYLHEXANOL**

LD50 (Oral).3290 mg/kg

LD50 (Dermal).> 3000 mg/kg

LC50 (Inhalation).5,3 mg/kg

**CYPERMETHRIN**

LD50 (Oral).287 mg/kg  
LD50 (Dermal).> 2000 mg/kg  
LC50 (Inhalation).3,28 mg/l 4 h

**PIPERONYL BUTOXIDE**

LD50 (Oral).4570 mg/kg ratto femmina  
LD50 (Dermal).> 2000 mg/kg  
LC50 (Inhalation).> 5,9 mg/l 4 h

**TETRAMETHRINE**

LD50 (Oral).> 2000  
LD50 (Dermal).> 2000 mg/kg  
LC50 (Inhalation).> 5,63 mg/l

**POLIOSSIETILENSORBITAN TRIOLEATO**

LD50 (Oral).> 30000 mg/kg

**Benzensulphonic acid, calcium salt**

LD50 (Oral).4445 mg/kg  
LD50 (Dermal).> 2000 mg/kg

**SKIN CORROSION / IRRITATION**

Does not meet the classification criteria for this hazard class

**SERIOUS EYE DAMAGE / IRRITATION**

Does not meet the classification criteria for this hazard class

**RESPIRATORY OR SKIN SENSITISATION**

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

**STOT - SINGLE EXPOSURE**

Does not meet the classification criteria for this hazard class

**STOT - REPEATED EXPOSURE**

Does not meet the classification criteria for this hazard class

**ASPIRATION HAZARD**

Does not meet the classification criteria for this hazard class

**SECTION 12. Ecological information.**

This product is dangerous for the environment and highly toxic for aquatic organisms. In the long term, it have negative effects on aquatic environment.

**12.1. Toxicity.****2-ETHYLHEXANOL**

LC50 - for Fish.	17,1 mg/l/96h PESCE
EC50 - for Crustacea.	39 mg/l/48h SPECIE DAPHNIA
EC50 - for Algae / Aquatic Plants.	11,5 mg/l/72h

**CYPERMETHRIN**

LC50 - for Fish.	0,0028 mg/l/96h Salmo Gairdneri
EC50 - for Crustacea.	0,0003 mg/l/48h Daphnia Magna
Chronic NOEC for Fish.	0,00003 mg/l 34d, Pimephales Promelas

**PIPERONYL BUTOXIDE**

LC50 - for Fish.	3,94 mg/l/96h SPECIE CYPRINODON VARIEGATUS
EC50 - for Crustacea.	0,51 mg/l/48h SPECIE DAPHNIA MAGNA
EC50 - for Algae / Aquatic Plants.	3,89 mg/l/72h SPECIE SELENASTRUM CAPRICORNUTUM
Chronic NOEC for Fish.	0,053 mg/l
Chronic NOEC for Algae / Aquatic Plants.	0,824 mg/l

**TETRAMETHRINE**

LC50 - for Fish.	0,033 mg/l/96h
EC50 - for Crustacea.	0,47 mg/l/48h
EC50 - for Algae / Aquatic Plants.	1,36 mg/l/72h

**Benzensulphonic acid, calcium salt**

LC50 - for Fish.	10 mg/l/96h
EC50 - for Crustacea.	2,9 mg/l/48h
EC50 - for Algae / Aquatic Plants.	29 mg/l/72h
Fatty acids, C16-18 and C18-unsatd., Me esters	
EC50 - for Crustacea.	2504 mg/l/48h
EC50 - for Algae / Aquatic Plants.	> 0,131 mg/l/72h

**12.2. Persistence and degradability.****PIPERONYL BUTOXIDE**

Solubility in water.	28,9 mg/l
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NOT rapidly biodegradable.

**TETRAMETHRINE**

Solubility in water.	0,25 mg/l
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**12.3. Bioaccumulative potential.****CYPERMETHRIN**

BCF.	1204 mg/l Salmo Gairdneri
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**PIPERONYL BUTOXIDE**

Partition coefficient: n-octanol/water.	4,8
BCF.	91

**TETRAMETHRINE**

Partition coefficient: n-octanol/water.	> 4,09
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**12.4. Mobility in soil.****TETRAMETHRINE**

Partition coefficient: soil/water.	3,35
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**12.5. Results of PBT and vPvB assessment.**

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

**12.6. Other adverse effects.**



Information not available.

**SECTION 13. Disposal considerations.****13.1. Waste treatment methods.**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

The CER codes recommended (which may change according to the use) are:

CER 16.03.05\* – Organic waste containing hazardous substances.

**CONTAMINATED PACKAGING**

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

The CER codes recommended (which may change according to the use) are:

CER 15.01.10\* - Packaging containing residues of or contaminated by dangerous substances.

**SECTION 14. Transport information.****14.1. UN number**

ADR / RID, IMDG, IATA: 3082

ADR / RID: In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity  $\leq$  5Kg or 5L, is not submitted to ADR provisions.

IMDG: In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity  $\leq$  5Kg or 5L, is not submitted to IMDG Code provisions.

IATA: In accordance with SP A197, this product, when is packed in receptacles of a capacity  $\leq$  5Kg or 5L, is not submitted to IATA dangerous goods regulations.

**14.2. UN proper shipping name.**

ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PIPERONYL BUTOXIDE; CYPERMETHRIN)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PIPERONYL BUTOXIDE; CYPERMETHRIN)

IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PIPERONYL BUTOXIDE; CYPERMETHRIN)

**14.3. Transport hazard class(es)**

ADR / RID: Class: 9 Label: 9



IMDG: Class: 9 Label: 9



IATA: Class: 9 Label: 9

**14.4. Packing group**

ADR / RID, IMDG, IATA: III

**14.5. Environmental hazards**

ADR / RID: Environmentally Hazardous



IMDG: Marine Pollutant



IATA: Environmentally Hazardous

**14.6. Special precautions for user**

ADR / RID:	HIN - Kemler: 90	Limited Quantities: 5 L	Tunnel restriction code: (-)
	Special Provision: -		
IMDG:	EMS: F-A, S-F	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 450 L	Packaging instructions: 964
	Pass.:	Maximum quantity: 450 L	Packaging instructions: 964
	Special Instructions:	A97, A158, A197	

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

Information not relevant

**SECTION 15. Regulatory information.****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.**

Seveso Category - Directive 2012/18/EC: E1

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.Product.

Point. 3

Substances in Candidate List (Art. 59 REACH).

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH).

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls.

Workers exposed to this hazardous chemical agent must undergo health checks, made in accordance with the provisions of Art. 41 of D.Lgs.81 of 9 April 2008, except where the risk to the health and safety of workers has been evaluated as irrelevant, in accordance with Art. 224 subparagraph 2.

**15.2. Chemical safety assessment.**

Refer to the protection and prevention measures in sections 7 and 8 of the datasheet.

**SECTION 16. Other information.****MINISTRY OF HEALTH AUTHORIZATION N. 19896**

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

<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>Eye Dam. 1</b>	Serious eye damage, category 1

<b>Eye Irrit. 2</b>	Eye irritation, category 2
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>STOT SE 3</b>	Specific target organ toxicity - single exposure, category 3
<b>Aquatic Acute 1</b>	Hazardous to the aquatic environment, acute toxicity, category 1
<b>Aquatic Chronic 1</b>	Hazardous to the aquatic environment, chronic toxicity, category 1
<b>Aquatic Chronic 2</b>	Hazardous to the aquatic environment, chronic toxicity, category 2
<b>Aquatic Chronic 3</b>	Hazardous to the aquatic environment, chronic toxicity, category 3
<b>H302</b>	Harmful if swallowed.
<b>H332</b>	Harmful if inhaled.
<b>H318</b>	Causes serious eye damage.
<b>H319</b>	Causes serious eye irritation.
<b>H315</b>	Causes skin irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H400</b>	Very toxic to aquatic life.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.
<b>H412</b>	Harmful to aquatic life with long lasting effects.

**LEGEND:**

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

**GENERAL BIBLIOGRAPHY**

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament



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- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

**Note for users:**

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.  
This document must not be regarded as a guarantee on any specific product property.  
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.  
Provide appointed staff with adequate training on how to use chemical products.

**Changes to previous review:**

The following sections were modified:  
8.2

**Legend of the information contained at section 9.1 of the datasheet:**

Not Applicable: the data or the characteristic is not applicable to the product in question, due to its nature.

Not Relevant: the data or the characteristic is not relevant to determine the hazardous characteristics of the product.

Not Available: the data or the characteristic, even though it would be potentially relevant to determine the characteristics of the product, is not available.