

Revision nr. 1

Dated 29/10/2019 First compilation

Printed on 19/12/2019

Page n. 1/14

Safety Data Sheet

TRONCHETTO ANTIFULIGGINE

According to Annex II to REACH - Regulation 2015/830

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

1.1. Product identifier

Code: C00317-11045

Product name TRONCHETTO ANTIFULIGGINE

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

Intended use Anti-soot wooden log for chimney, stoves; based on ammonium chloride.

1.3. Details of the supplier of the safety data sheet

Name PIGAL S.R.L. A SOCIO UNICO

Full address Via G. Rossa, 2

District and Country 40053 VALSAMOGGIA - Crespellano (BO)

ITALIA

Tel. +39 051969068 Fax +39 051969353

e-mail address of the competent person

responsible for the Safety Data Sheet health.safety@pigal.it; pigalab@pigal.it

1.4. Emergency telephone number

For urgent inquiries refer to +39 051969068 ore ufficio/office hours (8.30-13; 14-17.30)

118 (contattare il centro antiveleni più vicino)/please contact your near local poison

control center

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 (EU) Regulation 2015/830.

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:

Acute toxicity, category 4 H302 Harmful if swallowed.

Eye irritation, category 2 H319 Causes serious eye irritation.

Hazardous to the aquatic environment, chronic toxicity, H411 Toxic to aquatic life with long lasting effects.

category 2

2.2. Label elements

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

Hazard pictograms:



Revision nr. 1

Dated 29/10/2019 First compilation

Printed on 19/12/2019

Page n. 2/14

TRONCHETTO ANTIFULIGGINE





Signal words: Warning

Hazard statements:

H302 Harmful if swallowed.H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P501 Dispose of contents / container to local regulation.

P102 Keep out of reach of children.

P101 If medical advice is needed, have product container or label at hand.

P391 Collect spillage.

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

rinsing.

P264 Wash the hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301+P312 IF SWALLOWED: Call a POISON CENTER / doctor / . . . / if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice / attention.

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

3.2. Mixtures

Contains:

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

AMMONIUM CHLORIDE

CAS 12125-02-9 $47,5 \le x < 50$ Acute Tox. 4 H302, Eye Irrit. 2 H319

EC 235-186-4

INDEX 017-014-00-8 Reg. no. 01-2119487950-27

FERROUS SULPHATE EPTAHYDRATE

CAC 7700 CO O

CAS 7782-63-0 $2 \le x < 2,5$ Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315

EC 231-753-5

INDEX 026-003-01-4
COPPER(II) SULFATE

CAS 7758-99-8 1,5 \leq x < 2 Acute Tox. 4 H302, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=10, Aquatic

Chronic 1 H410 M=10

EC 231-847-6



TRONCHETTO ANTIFULIGGINE

Revision nr. 1

Dated 29/10/2019

First compilation

Printed on 19/12/2019

Page n. 3/14

INDEX 029-004-00-0

ZINC OXIDE

CAS 1314-13-2

 $1.5 \le x < 2$

Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

EC 215-222-5

INDEX 030-013-00-7

Reg. no. 01-2119463881-32

The full wording of hazard (H) phrases is given in section 16 of the sheet.

Other components: Paraffin waxes and hydrocarbon waxes (CAS 8002-74-2) <10%

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again. INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always 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).



Revision nr. 1

Dated 29/10/2019

First compilation

Printed on 19/12/2019

Page n. 4/14

TRONCHETTO ANTIFULIGGINE

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

If there are no contraindications, spray powder with water to prevent the formation of dust.

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 and place it in containers for recovery or disposal. If there are no contraindications, use jets of water to eliminate product residues

Make sure the leakage site is well aired. Evaluate the compatibility of the container to be used, by checking section 10. 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

8.1. Control parameters

Regulatory References:

DEU Deutschland TRGS 900 (Fassung 31.1.2018 ber.) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte ESP España INSHT - Límites de exposición profesional para agentes químicos en España 2017 GBR United Kingdom EH40/2005 Workplace exposure limits GRC Ελλάδα ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012

TLV-ACGIH ACGIH 2018



Revision nr. 1

Dated 29/10/2019

First compilation

Printed on 19/12/2019

Page n. 5/14

TRONCHETTO ANTIFULIGGINE

AMMONIUM CHLORIDE Threshold Limit Value					
Туре	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
VLA	ESP	10		20	
WEL	GBR	10		20	
TLV	GRC	10		20	
TLV-ACGIH		10		20	

FERROUS SULPHATE E Threshold Limit Value	PTAHYDRATE				
Туре	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV-ACGIH		1			

Threshold Limit Value						
Туре	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
MAK	DEU	1		1		
VLA	ESP	2		10		
TLV	GRC	5		10		
TLV-ACGIH		2		10	RESP	
Predicted no-effect concentration	on - PNEC					
Normal value in fresh water				0,0206	mg/l	
Normal value in marine water				0,0061	mg/l	
Normal value for fresh water se	ediment			117,8	mg/kg	
Normal value for marine water	sediment			56,5	mg/kg	
Normal value of STP microorga	anisms			0,052	mg/l	
Normal value for the terrestrial	compartment			35,6	mg/kg	

Health - Derived no-effect level - DNEL / DMEL									
	Effects on				Effects on				
	consumers				workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic	
				systemic		systemic		systemic	
Oral			VND	0,83 mg/kg/d					
Inhalation			VND	1,3 mg/m3			VND	2,5 mg/m3	
Skin			VND	8,3 mg/kg/d			VND	8,3 mg/kg/d	

Legend:
(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

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.



Revision nr. 1

Dated 29/10/2019 First compilation

Printed on 19/12/2019

Page n. 6/14

TRONCHETTO ANTIFULIGGINE

When choosing personal protective equipment, ask your chemical substance supplier for advice.
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

In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (see standard EN 374).
Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

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

None required, unless indicated otherwise in the chemical risk assessment.

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 solid
Colour brown

Odour Mild (paraffinic) Odour threshold Not available рΗ Not applicable Melting point / freezing point Not applicable Initial boiling point Not applicable Boiling range Not applicable Flash point Not applicable **Evaporation Rate** Not applicable Flammability of solids and gases not applicable Lower inflammability limit Not available Upper inflammability limit Not available Lower explosive limit Not available Upper explosive limit Not available Not applicable Vapour pressure Vapour density Not applicable Relative density Not applicable Solubility insoluble



Revision nr. 1

Dated 29/10/2019
First compilation

Printed on 19/12/2019

Page n. 7/14

TRONCHETTO ANTIFULIGGINE

Partition coefficient: n-octanol/water Not applicable
Auto-ignition temperature Not applicable
Decomposition temperature Not applicable
Viscosity Not applicable
Explosive properties not applicable
Oxidising properties not applicable

SECTION 10. Stability and reactivity

10.1. Reactivity

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

COPPER(II) SULFATE

The aqueous solutions act as: weak acids.

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.

COPPER(II) SULFATE

May react dangerously with: strong oxidising agents, magnesium powder, hydroxylamine.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

AMMONIUM CHLORIDE

Avoid exposure to: moisture, sources of heat.

10.5. Incompatible materials

AMMONIUM CHLORIDE

Incompatible with: water, bromine trifluoride, bromine pentafluoride, iodine heptafluoride, potassium chlorate, alkalis, alkaline carbonates, acids, lead salts, silver salts.

10.6. Hazardous decomposition products

AMMONIUM CHLORIDE

May develop: nitric oxide,ammonia,hydrochloric acid.

COPPER(II) SULFATE

May develop: sulphur oxides.



Revision nr. 1

Dated 29/10/2019
First compilation

Printed on 19/12/2019

Page n. 8/14

TRONCHETTO ANTIFULIGGINE

SECTION 11. Toxicological information

11.1. Information on toxicological effects

Serious eye damage / eye irritation AMMONIUM CHLORIDE Draize eye test (rabbit): irritant COPPER SULPHATE

Draize eye test (rabbit): severely irritating

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

AMMONIUM CHLORIDE LD50 (Oral) 1410 mg/kg Rat

COPPER(II) SULFATE LD50 (Oral) 481 mg/kg Rat LD50 (Dermal) > 2000 mg/kg

FERROUS SULPHATE EPTAHYDRATE LD50 (Oral) 1520 mg/kg Mouse

ZINC OXIDE LD50 (Oral) > 5000 mg/kg Rat LC50 (Inhalation) > 5,7 ppm/4h Rat

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation



Revision nr. 1

Dated 29/10/2019 First compilation

Printed on 19/12/2019

Page n. 9/14

TRONCHETTO ANTIFULIGGINE

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 is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment.

12.1. Toxicity

COPPER(II) SULFATE

LC50 - for Fish 0,032 mg/l/96h Pimephales promelas

EC50 - for Crustacea 0,18 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants 0,003 mg/l/72h Pseudokirchneriella subcapitata

Chronic NOEC for Crustacea 0,029 mg/l Ceriodaphnia dubia

ZINC OXIDE

LC50 - for Fish 1,1 mg/l/96h Oncorhynchus mykiss EC50 - for Crustacea 1,7 mg/l/48h Daphnia Magna

EC50 - for Algae / Aquatic Plants 0,136 mg/l/72h Pseudokirchneriella subcapitata

Chronic NOEC for Fish 0,53 mg/l

Chronic NOEC for Algae / Aquatic Plants 0,136 mg/l Pseudokirchnerella subcapitata

12.2. Persistence and degradability



Revision nr. 1

Dated 29/10/2019 First compilation

Printed on 19/12/2019

Page n. 10/14

TRONCHETTO ANTIFULIGGINE

AMMONIUM CHLORIDE

Solubility in water > 10000 mg/l

Degradability: information not available

COPPER(II) SULFATE

Solubility in water 220 mg/l

NOT rapidly degradable

ZINC OXIDE

Solubility in water 2,9 mg/l

The main constituents of the product are inorganic substances.

12.3. Bioaccumulative potential

ZINC OXIDE

BCF > 175

Bioaccumulation is not expected for the product in aquatic / terrestrial organisms.

12.4. Mobility in soil

Unpredictable.

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 correct disposal code (determined by the waste generation mode) cannot be specified by the manufacturer in the case of products used in various sectors.

CER code (recommended): 03 02 01

REGULATION (EU) No. 1357/2014: HP4 - Irritant - Skin irritation and eye damage; HP14 - Ecotoxic

SECTION 14. Transport information



Revision nr. 1

Dated 29/10/2019 First compilation

Printed on 19/12/2019

Page n. 11/14

TRONCHETTO ANTIFULIGGINE

14.1. UN number

ADR / RID, IMDG,

3077

ADR / RID:

IATA:

IATA:

In accordance with Special Provision 375, this product,

when is packed in receptacles of a capacity ≤ 5Kg or

5L, is not submitted to ADR provisions.

In accordance with Section $\dot{2}.10.2.7$ of IMDG Code, this IMDG:

product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IMDG Code provisions.

In accordance with SP A197, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not

submitted to IATA dangerous goods regulations.

14.2. UN proper shipping name

ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (COPPER(II) SULFATE; ZINC OXIDE) IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (COPPER(II) SULFATE; ZINC OXIDE) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (COPPER(II) SULFATE; ZINC OXIDE) IATA:

14.3. Transport hazard class(es)

ADR / RID:

Class: 9

Label: 9

IMDG:

Class: 9

Label: 9

Label: 9

IATA:

IATA:

Class: 9

14.4. Packing group

ADR / RID, IMDG,

Ш

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 Tunnel restriction code: (-)



Revision nr. 1

Dated 29/10/2019 First compilation

Printed on 19/12/2019
Page n. 12/14

TRONCHETTO ANTIFULIGGINE

Special Provision: -

EMS: F-A, S-F Limited

Quantities: 5

IATA: Cargo: Maximum

Pass.:

quantity: 400 instructions: Kg 956

Kg Maximum quantity: 400

Packaging instructions:

Packaging

Kg

956 4158

Special Instructions: A97, A158, A179, A197

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

Information not relevant

IMDG:

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: E2

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

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 chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

Water hazard WGK = 3 (Self-classification): very dangerous



Revision nr. 1

Dated 29/10/2019 First compilation

Printed on 19/12/2019

Page n. 13/14

TRONCHETTO ANTIFULIGGINE

15.2. Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information

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

Acute Tox. 4 Acute toxicity, category 4

Eye Dam. 1 Serious eye damage, category 1

Eye Irrit. 2 Eye irritation, category 2
Skin Irrit. 2 Skin irritation, category 2

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1

Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1

Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2

H302 Harmful if swallowed.

H318 Causes serious eye damage.H319 Causes serious eye irritation.

H315 Causes skin irritation.
H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.H411 Toxic 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).



Revision nr. 1

Dated 29/10/2019

First compilation

Printed on 19/12/2019 Page n. 14/14

TRONCHETTO ANTIFULIGGINE

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
- Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
 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
- 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.