

Safety data sheet

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

1.1. Product identifier

Code: **045020 (060900 Cod. Cattani)**
Product name: **Puli Jet Plus New**

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

Intended use: Disinfectant cleaner for dental aspirators

1.3. Details of the supplier of the safety data sheet

Name: Magnolia srl
Full address: Via Natta 6/A
District and Country: 43122 Parma - Italy
Tel +39 0521 607277
fax +39 0521 399967

e-mail address of the competent person responsible for the Safety Data Sheet: info.magnolia@cattani.it

1.4. Emergency telephone number

For urgent inquiries refer to: Poisons Information Centre
Pharmacy Department Royal Hospital Suite Grosvenor Road Belfast
+44 28 90 63 2032 (24h/24h)

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:

Skin Corr. 1B	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
Aquatic Chronic 2	H411

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

2.2. Label elements.

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

Hazard pictograms:



Signal words:

Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.
EUH208 Contains:
 (R)-P-MENTHA-1,8-DIENE

May produce an allergic reaction.

Precautionary statements:

P280 Wear protective gloves, protective clothing, eye protection and face protection.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water and a shower
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 Immediately call a POISON CENTER or doctor
P333 + P313 If skin irritation or rash occurs: Get medical advice
P501 Dispose of contents/container to regional law

Contains: SODIUM HYDROXIDE
 4-chloro-3-methylphenol
 2-benzyl-4-chlorophenol
 ethylenediamine tetraacetate tetrasodium

2.3. Other hazards.

Information not available.

SECTION 3. Composition/information on ingredients.

3.2. Mixtures.

Contains:

Identification.	Conc. %.	Classification 1272/2008 (CLP).
4-chloro-3-methylphenol		
CAS. 59-50-7	10,5 - 12	Acute Tox. 4 H302, Acute Tox. 4 H312, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1
EC. 200-431-6		
INDEX. 604-014-00-3		
2-benzyl-4-chlorophenol		
CAS. 120-32-1	6 - 7	Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410
EC. 204-385-8		
INDEX. -		

SODIUM HYDROXIDE

CAS. 1310-73-2

3,5 - 4

Met. Corr. 1 H290, Skin Corr. 1A H314

EC. 215-185-5

INDEX. 011-002-00-6

ethylenediamine tetraacetate tetrasodium

CAS. 64-02-8

3 - 3,5

Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Dam. 1 H318

EC. 200-573-9

INDEX. -

(R)-P-MENTHA-1,8-DIENE

CAS. 5989-27-5

0,35 - 0,4

Flam. Liq. 3 H226, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410, Note C

EC. 227-813-5

INDEX. 601-029-00-7

Reg. no. 01-2119529223-47

PHOSPHORIC ACID

CAS. 7664-38-2

0,05 - 0,1

Skin Corr. 1B H314, Note B

EC. 231-633-2

INDEX. 015-011-00-6

Note: Upper limit is not included into the range.

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

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 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice.

INGESTION: Get medical advice. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

For symptoms and effects caused by the contained substances, see chap. 11.

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**

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. 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).

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. 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. Check incompatibility for container material in section 7. 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.**

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. 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:

United Kingdom	EH40/2005 Workplace exposure limits. Containing the list of workplace exposure limits for use with the Control of Substances Hazardous to Health Regulations (as amended).
Éire	Code of Practice Chemical Agent Regulations 2011.
OEL EU	Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC.
TLV-ACGIH	ACGIH 2012

SODIUM HYDROXIDE**Threshold Limit Value.**

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
WEL	UK			2	
OEL	IRL			2	
TLV-ACGIH				2 (C)	

ethylenediamine tetraacetate tetrasodium**Threshold Limit Value.**

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV-ACGIH		10			
TLV-ACGIH		3			

Predicted no-effect concentration - PNEC.

Normal value for the terrestrial compartment	0,72	mg/Kg
Normal value in fresh water	2,2	mg/l
Normal value for water, intermittent release	1,2	mg/l
Normal value in marine water	0,22	mg/l
Normal value of STP microorganisms	43	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
Oral.			VND	25 mg/Kg				
Inhalation.	1,5 mg/m3	1,5 mg/m3			2,5 mg/m3	2,5 mg/m3		

PHOSPHORIC ACID**Threshold Limit Value.**

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
WEL	UK	1		2	
OEL	IRL	1		2	
OEL	EU	1		2	
TLV-ACGIH		1		3	

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.
 VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

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.

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

Protect hands with gloves for chemical class F, D, K, A whose category will be selected based on the outcome of the chemical risk assessment (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 II 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 B 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.

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	liquid
Colour	white
Odour	phenolic
Odour threshold.	Not available.
pH.	12
Melting point / freezing point.	Not available.
Initial boiling point.	Not available.
Boiling range.	Not available.
Flash point.	> 100 °C.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Lower inflammability limit.	Not available.
Upper inflammability limit.	Not available.
Lower explosive limit.	Not available.
Upper explosive limit.	Not available.
Vapour pressure.	Not available.
Vapour density	Not available.
Relative density.	1,095 Kg/l
Solubility	Not available.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	not applicable

9.2. Other information.

Information not available.

SECTION 10. Stability and reactivity.**10.1. Reactivity.****PHOSPHORIC ACID:**

decomposes at temperatures over 200 °C.

10.2. Chemical stability.

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

10.3. Possibility of hazardous reactions.

PHOSPHORIC ACID:

risk of explosion on contact with nitromethane. May react dangerously with alkalis and sodium borohydride.

10.4. Conditions to avoid.

SODIUM HYDROXIDE:

exposure to the air, moisture and sources of heat.

10.5. Incompatible materials.

SODIUM HYDROXIDE:

strong acids, ammonia, zinc, lead, aluminium, water and flammable liquids.

PHOSPHORIC ACID:

Metals, strong alkalis, aldehydes, sulphides and peroxides.

10.6. Hazardous decomposition products.

PHOSPHORIC ACID:

phosphorus oxide.

SECTION 11. Toxicological information.**11.1. Information on toxicological effects.**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

a) acute toxicity;

Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

Ingestion may cause burns to the mouth, throat and esophagus; vomiting, diarrhea, edema, larynx swelling and, consequently, asphyxia. Perforation of the gastrointestinal tract

4-chloro-3-methylphenol

NOEL chronic oral male rat: 103 mg/Kg/die

NOEL chronic oral female rat: 134 mg/Kg/die

SODIUM HYDROXIDE

LD50 (Oral). 1350 mg/kg Rat

LD50 (Dermal). 1350 mg/kg Rat

PHOSPHORIC ACID

LD50 (Oral) 1530 mg/kg Rat

LD50 (Dermal) 2740 mg/kg Rabbit

LC50 (Inhalation) > 0,85 mg/l/1h Rat

4-chloro-3-methylphenol

LD50 (Oral). 1830 mg/Kg rat

LD50 (Dermal). > 2000 mg/Kg rat

LC50 (Inhalation). > 2871 mg/l rat - 403 acute inhalation toxicity

2-benzyl-4-chlorophenol

LD50 (Oral) > 5000 mg/kg rat

LD50 (Dermal) > 2500 mg/Kg rat

ethylenediamine tetraacetate tetrasodium

LD50 (Oral) 2581 mg/Kg rat

LD50 (Dermal) > 5000 mg/Kg rabbit

LC50 (Inhalation) 3000 mg/m³ rat

b) skin corrosion/irritation:

The product is corrosive and causes severe burns and blistering on the skin, which can arise even after exposure. Burns are very stinging and painful.

c) serious eye damage/irritation:

Contact with eyes causes serious injuries and may cause corneal opacity, iris lesions, irreversible eye coloration.

d) respiratory or skin sensitisation:

Possible vapors are caustic for the respiratory system and may cause pulmonary edema, whose symptoms sometimes arise only after some hours.

e) germ cell mutagenicity:

Information not available.

f) Carcinogenicity

Information not available.

(g) reproductive toxicity

Information not available.

(h) STOT-single exposure;

Information not available.

i) STOT-repeated exposure

Information not available.

(j) aspiration hazard.

Information not available.

SECTION 12. Ecological information.

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

12.1. Toxicity.(R)-P-MENTHA-1,8-DIENE

LC50 - for Fish

35 mg/l/96h *Oncorhynchus mykiss*

EC50 - for Crustacea.

69,6 mg/l/48h *Daphnia pulex*

4-chloro-3-methylphenol

LC50 - for Fish.

0,92 mg/l *Oncorhynchus mykiss*

EC50 - for Crustacea.

3,9 mg/l/48h *Daphnia*

EC50 - for Algae / Aquatic Plants.

30,62 mg/l/72h *Scenedesmus subspicatus*

ethylenediamine tetraacetate tetrasodium

LC50 - for Fish.

> 1000 mg/l/96h

EC50 - for Crustacea.

140 mg/l *Daphnia*

EC50 - for Algae / Aquatic Plants.

> 300 mg/l/72h

12.2. Persistence and degradability.

2-benzyl-4-chlorophenol

NOT rapidly biodegradable.

12.3. Bioaccumulative potential.

2-benzyl-4-chlorophenol

BCF110

12.4. Mobility in soil.

Information not available.

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.

Avoid littering. Do not contaminate soil, sewers and waterways.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

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

SECTION 14. Transport information.

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations. These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

14.1. UN number

ADR/ADN/RID: 1760

IMDG: 1760

IATA: 1760

14.2. UN proper shipping name

ADR/ADN/RID: CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE, 4-CHLORO-3-METHYLPHENOL), MARINE POLLUTANT

IMDG: CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE, 4-CHLORO-3-METHYLPHENOL), MARINE POLLUTANT

IATA: CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE, 4-CHLORO-3-METHYLPHENOL), MARINE POLLUTANT

14.3. Transport hazard class(es)

ADR/ADN/RID: 8

IMDG: 8

IATA: 8

14.4. Packing group

ADR/ADN/RID: II

IMDG: II

IATA: II

14.5. Environmental hazards

ADR/ADN/RID: YES

IMDG: YES

Marine Pollutant: YES

IATA: YES

14.6. Special precautions for user

ADR/ADN/RID

Codice classificazione: C9

Categoria di trasporto: 2

N. Kemler: 80

Label: 8

Special Instructions: 274

Limited Quantity: 1 L

Quantità esente: E2

Magnolia - Puli Jet Plus New

IMDG

Label: 8
Special Instructions: 274
Limited Quantity: 1 L
Exempted Quantity: E2

IATA



Exempted Quantity:	E2				
Packaging instructions:	Cargo:	855	Pass.:	851	Limited Quantity: Y840
Maximum quantity:		30 L		1 L	0.5 L
Special Instructions:	A3 - A803				

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

If you plan to bulk transport adhere to annex II MARPOL 73/78 and the IBC code where applicable.

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

Seveso category. 9ii

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).
None.

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.

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:

Flam. Liq. 3 Flammable liquid, category 3
Met. Corr. 1 Substance or mixture corrosive to metals, category 1

Magnolia - Puli Jet Plus New

Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1A	Skin corrosion, category 1A
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
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
H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
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).

GENERAL BIBLIOGRAPHY

1. Directive 1999/45/EC and following amendments

Magnolia - Puli Jet Plus New

2. Directive 67/548/EEC and following amendments and adjustments
3. Regulation (EC) 1907/2006 (REACH) of the European Parliament
4. Regulation (EC) 1272/2008 (CLP) of the European Parliament
5. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
6. Regulation (EC) 830/2015 of the European Parliament
7. Regulation (EC) 286/2011 (II Atp. CLP) of the European Parliament
8. Regulation (EC) 618/2012 (III Atp. CLP) of the European Parliament
9. The Merck Index. - 10th Edition
10. Handling Chemical Safety
11. Niosh - Registry of Toxic Effects of Chemical Substances
12. INRS - Fiche Toxicologique (toxicological sheet)
13. Patty - Industrial Hygiene and Toxicology
14. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
15. ECHA website

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.