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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**

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

Description/ Intended use. **Emulsifiable concentrated liquid.
For civil use.**

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:

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Aspiration hazard, category 1

H304

May be fatal if swallowed and enters airways.

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: Danger

Signal word: Warning

Hazard statements:

H304 May be fatal if swallowed and enters airways.
H410 Very toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements:

P102 Keep out of reach of children.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 F SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331 Do NOT induce vomiting.
P391 Collect spillage.
P405 Store locked up.
P501 Dispose of contents/container in accordance with national regulation.

Contains: HYDROCARBONS C10–C13; NAPHTHA (PETROL.); HYDROTREATED LIGHT
Hydrocarbons, C10, aromatics, <1% naphthalene
Branched alcohols oxo ethoxylated.
Benzenesulphonic acid, calcium salt.

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:

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

Identification.	Conc. %	Classification 1272/2008 (CLP).
Hydrocarbons c10-c13, naphta(petrol.); hydrotreated light		
CAS. -	66 - 70	Asp. Tox. 1 H304
EC. 918-481-9		
INDEX. -		
Reg. no. 01-2119474196-32-XXXX		

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Hydrocarbons, C10, aromatics, <1% naphthalene

CAS. - 15 - 16,5 Asp. Tox. 1 H304, STOT SE 3 H336, Aquatic Chronic 2 H411
 EC. 918-811-1
 INDEX. -
 Reg. no. 01-21194-63583-34-XXXX

Cypermethrin

CAS. 52315-07-8 3,7 Acute Tox. 4 H302, Acute Tox. 4 H332, STOT SE 3 H335, Aquatic
 EC. 257-842-9 Acute 1 H400 M=1000, Aquatic Chronic 1 H410 M=1000
 INDEX. 607-421-00-4
 Reg. no. 02-2119680758-20-0000

Benzensulphonic acid, calcium salt

CAS. - 3 - 3,5 Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412
 EC. -
 INDEX. -
 Reg. no. 01-2119560592-37-XXXX

Branched alcohols oxo ethoxylated

CAS. 24938-91-8 3 - 3,5 Acute Tox. 4 H302, Eye Dam. 1 H318
 EC. -
 INDEX. -

2-ETHYLHEXANOL-1 olo

CAS. 104-76-7 2,5 - 3 Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3
 EC. 203-234-3 H335
 INDEX. -
 Reg. no. 01-2119487289-20-XXXX

The full wording of 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 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

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

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

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


Pharmacodynamic actions: the active substance blocks the nerve transmission and hyperstimulate the nerve endings pre-post synaptically. Consult a poison control center.

Seek medical advices in cases of doubt or when the symptoms persist, by providing the information contained in the label or in this safety datasheet. In case of accident, only trained person should carry out the first operation, to avoid further complication or damage to the person injured.

SECTION 5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

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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 firefighting 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).

Emulsifiable concentrated liquid for civil use. The product should be used only by trained person.


SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Hydrocarbons, C10, aromatics, <1% naphthalene

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.				7,5 mg/kg/d				VND
Inhalation.				32 mg/m3				151 mg/m3
Skin.				7,5 ma/kg/d				12,5 ma/kg/d

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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 a hood visor or protective visor combined with airtight 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	Liquid
Colour	Straw yellow
Odour	Characteristic
Odour threshold.	Not available.

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pH.	5
Melting point / freezing point.	Not relevant
Initial boiling point.	> 150 °C.
Boiling range.	Not relevant.
Flash point.	> 60 °C.
Evaporation Rate	Not available.
Flammability of solids and gases	Not applicable.
Lower inflammability limit.	Not applicable.
Upper inflammability limit.	Not applicable.
Lower explosive limit.	Not applicable.
Upper explosive limit.	Not applicable.
Vapour pressure.	Not relevant.
Vapour density	Not relevant.
Density	0,83 Kg/L
Solubility	Emulsionable in water
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	Not applicable
Decomposition temperature.	Not applicable
Viscosity	1,0- 2,3 mm2/s; 20°C
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.

Hydrocarbons, C10, aromatics, <1% naphthalene
Stable in normal conditions of use and storage °C.

10.2. Chemical stability.

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

HYDROCARBONS C10–C13, NAPHTA (PETROL.) HYDROTREATED LIGHT
Stable in normal conditions of use and storage °C.

Hydrocarbons, C10, aromatics, <1% naphthalene
Stable in normal conditions of use and storage °C.

10.3. Possibility of hazardous reactions.

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

Hydrocarbons, C10, aromatics, <1% naphthalene
Stable in normal conditions of use and storage °C.

10.4. Conditions to avoid.

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

HYDROCARBONS C10–C13, NAPHTA (PETROL.), HYDROTREATED LIGHT
Avoid exposure to: electrostatic discharges, overheated surfaces.

10.5. Incompatible materials.


HYDROCARBONS C10–C13, NAPHTA (PETROL.), HYDROTREATED LIGHT
Incompatible with: strong oxidising agents.

10.6. Hazardous decomposition products.

Information not available.

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.

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11.1. Information on toxicological effects.

ACUTE TOXICITY.

LC50 (Inhalation - vapours) of the mixture: 611,111 mg/l

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

LD50 (Oral) of the mixture: 25396,832 mg/kg

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

HYDROCARBONS C10–C13; NAPHTHA (PETROL.); HYDROTREATED LIGHT

LD50 (Oral).> 2000 mg/kg

LD50 (Dermal).> 2000 mg/kg

LC50 (Inhalation).> 5 mg/l 8 h

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

Hydrocarbons, C10, aromatics, <1% naphthalene

LD50 (Oral).6318 mg/kg

LD50 (Dermal).> 2000 mg/kg

LC50 (Inhalation).> 4688 mg/m³ 4 h

Branched alcohols oxo ethoxylated

LD50 (Oral).> 200 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 has negative effects on aquatic environment.

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12.1. Toxicity.

HYDROCARBONS C10–C13 NAPHTHA (PETROL.)
HYDROTREATED LIGHT

LC50 - for Fish.	> 100 mg/l/96h trota arcobaleno
EC50 - for Crustacea.	> 100 mg/l/48h
EC50 - for Algae / Aquatic Plants.	> 100 mg/l/72h
Chronic NOEC for Crustacea.	< 0,1 mg/l

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

Hydrocarbons, C10, aromatics, <1% naphthalene

LC50 - for Fish.	14 mg/l/96h
EC50 - for Crustacea.	10 mg/l/48h
EC50 - for Algae / Aquatic Plants.	< 3 mg/l/72h

Branched alcohols oxo ethoxylated

LC50 - for Fish.	> 1 mg/l/96h
EC50 - for Algae / Aquatic Plants.	> 1 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

12.2. Persistence and degradability.

Hydrocarbons, C10, aromatics, <1% naphthalene

Entirely biodegradable.

12.3. Bioaccumulative potential.

CYPERMETHRIN

BCF.	1204 mg/l Salmo Gairdneri
------	---------------------------

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.

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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 ≤ 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 ≤ 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 ≤ 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. (Hydrocarbons, C10, aromatics, <1% naphthalene; CYPERMETHRIN)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hydrocarbons, C10, aromatics, <1% naphthalene; CYPERMETHRIN)

IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hydrocarbons, C10, aromatics, <1% naphthalene; 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
Special Provision: -

Limited Quantities: 5 L

Tunnel restriction code: (-)

IMDG: EMS: F-A, S-F

Limited Quantities: 5 L

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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. 13200

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

Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
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
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H302	Harmful if swallowed.

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H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
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.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

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
 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

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- 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. The product should be used only by trained person.

Legislative Decree No 174 of 25 Febbraio 2000, "Attuazione della direttiva 98/8/CE in materia di immissione sul mercato di biocidi"

Presidential Decree No 392 of 6 Ottobre 1998, "Regolamento recante norme per la semplificazione dei procedimenti di autorizzazione alla produzione ed all'immissione in commercio di presidi medico-chirurgici" in accordance with Article 20, subparagraph 8, of Act No 59 of 15 Marzo 1997.

Changes to previous review:

The following sections were modified:

11; 14.

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.