

Safety Data Sheet

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

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

1.1. Product identifier

Code:

Denomination

UFI :

DPG200140

Emak Pro Clean

EY10-K09G-9007-V1PY

1.2. Relevant identified uses of the substance or mixture and discouraged uses

Description/Use

Hard Surface Cleaner

Identified Uses	Industrial	Professional	Consumption
Detergent	✓	-	-
Detergent	✓	✓	✓

Not recommended uses

All those not listed

1.3. Information on the safety data sheet provider

Name

Address

Location and State

LUIGI CHIZZONI & C.S.R.L.

Via della Meccanica, 12

I-37139 Verona (VR)

Italy

tel. +39 0458510422

fax +39 0458510422

e-mail address of the competent person,

Safety Data Sheet Manager

info@chizzoni-saponi.it

1.4. Emergency telephone number

For urgent information, please contact

24-hour anti-poison centers:

- Poison Control Centre, "Antonio Cardarelli" Hospital, III Anesthesia and Resuscitation Service, via Antonio Cardarelli 9, Naples;

- Poison Control Centre, Careggi University Hospital, Medical Toxicology Unit, via Largo Brambilla 3, Florence;

- Poison Control Center, National Toxicological Information Center, IRCCS Salvatore Maugeri Foundation Labor and Rehabilitation Clinic, via Salvatore Maugeri 10, Pavia;

- Poison Control Centre, Niguarda Ca' Grande Hospital, Piazza Ospedale Maggiore 3, Milan;

- Poison Control Center, "Papa Giovanni XXIII" Hospital, Clinical Toxicology, Department of Clinical Pharmacy and Pharmacology, WHO 1 square, Bergamo;

- Poison Control Center Policlinico "Umberto I", PRGM Emergency Toxicology, viale del Policlinico 155, Rome;

- Poison Control Center of the "Agostino Gemelli" Polyclinic, Clinical Toxicology Service, largo Agostino Gemelli 8, Rome;

- Poison Control Centre, University Hospital Riuniti, viale Luigi Pinto 1, Foggia;

- Poison Control Center, Bambino Gesù Children's Hospital, DEA Emergency and Acceptance Department, Piazza Sant'Onofrio 4, Rome;

- Poison Control Centre of the Integrated University Hospital (AOUI) of Verona in Borgo Trento, piazzale Aristide Stefani, 1 - 37126 Verona.

SECTION 2. Hazard identification

2.1. Classification of the substance or mixture

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The product is classified as hazardous pursuant to the provisions of Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and adaptations). The product therefore requires a safety data sheet that complies with the provisions of Regulation (EU) 2020/878. Any additional information regarding risks to health and/or the environment is reported in sections 11 and 12 of this sheet.

Classification and hazard statements:		
Serious eye injuries, category 1	H318	It causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.

2.2. Label elements

Hazard labelling in accordance with Regulation (EC) 1272/2008 (CLP) and subsequent amendments and adaptations.

Hazard pictograms:



Warnings:	Danger
Hazard statements:	
H318	It causes serious eye damage.
H315	Causes skin irritation.
EUH208	Contiene: Orange oil terpenes It can cause an allergic reaction.
Precautionary statements:	
P102	Keep out of reach of children.
P101	If you consult a doctor, have the container or product label available.
P305+P351+P338	IF IN CONTACT WITH EYES: Rinse thoroughly for several minutes. Remove any contact lenses if it is easy to do so. Continue rinsing.
P280	Wear protective gloves and protect your eyes/face.
P310	Contact a POISON CENTER or physician immediately.
P501	Dispose of the product/container in accordance with local regulations.
Contains:	Isotridecanol ethoxylate (>7 - < 10EO) ETHANOLAMINE

2.3. Other hazards

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

The product does not contain endocrine-disrupting substances in a concentration ≥ 0.1%.

SECTION 3. Composition/ingredient information

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
DIPROPYLENE GLYCOL MONOMETHYL ETHER INDEX - CE 252-104-2 CAS 34590-94-8 Reg. REACH 01-2119450011-60-	1 ≤ x < 4,5	Substance with a Community limit of exposure in the workplace.
3-BUTOXY-2-PROPANOL INDEX 603-052-00-8 CE 225-878-4 CAS 5131-66-8 Reg. REACH 01-2119475527-28-	1 ≤ x < 3,5	Eye Irrit. 2 H319, Skin Irrit. 2 H315 Skin Irrit. 2 H315: ≥ 20%, Eye Irrit. 2 H319: ≥ 20%
Isotridecanol ethoxylate (>7 - < 10EO) INDEX THAT- CAS 69011-36-5 Reg. REACH Polymer	0,5 ≤ x < 2,5	Acute Tox. 4 H302, Eye Dam. 1 H318 LD50 Orale: 555,556 mg/kg
PROPANE-2-OLO INDEX 603-117-00-0 CE 200-661-7 CAS 67-63-0 Reg. REACH 01-2119457558-25	0,5 ≤ x < 2	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336
ETHANOLAMINE INDEX 603-030-00-8 CE 205-483-3 CAS 141-43-5 Reg. REACH 01-2119486455-28-XXXX	0,5 ≤ x < 2	Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335, Aquatic Chronic 3 H412 Stott to 3H335: ≥ 5% LD50 Oral: 1089 mg/kg, STA Cutaneous: 1100 mg/kg, STA Vapor Inhalation: 11 mg/l
Orange oil terpenes INDEX - CE 232-433-8 CAS 8028-48-6	0,05 ≤ x < 0,15	Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411

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Reg. REACH 01-2119493353-35

The full text of the hazard statements (H) can be found in section 16 of the data sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

If in doubt or if you have symptoms, contact a doctor and show him this document.
In case of more severe symptoms, call 118 for immediate medical help.
EYES: Remove, if present, contact lenses if the situation allows the operation to be carried out easily. Wash immediately and thoroughly with water for at least 15 minutes, opening the eyelids wide. Seek medical attention immediately.
SKIN: Remove contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Consult a doctor. Avoid further contact with contaminated clothing.
INGESTION: Do not induce vomiting unless expressly authorized by your doctor. Do not administer anything orally if the subject is unconscious. Seek medical attention immediately.
INHALATION: Take the subject to fresh air away from the scene of the accident. In case of respiratory symptoms (cough, dyspnea, difficulty breathing, asthma) keep the victim in a comfortable position for breathing. If necessary, administer oxygen. If breathing stops, practice artificial respiration. Seek medical attention immediately.

Protecting Rescuers

It is good practice for the rescuer who is helping a person who has been exposed to a chemical substance or mixture to wear personal protective equipment. The nature of such protections depends on the hazardousness of the substance or mixture, the mode of exposure and the extent of contamination. In the absence of other more specific indications, it is recommended to use disposable gloves in case of possible contact with biological liquids. For the type of PPE suitable for the characteristics of the substance or mixture, refer to section 8.

4.2. Main symptoms and effects, both acute and delayed

No specific information is known about the symptoms and effects caused by the product.
DELAYED EFFECTS: Based on currently available information, there are no known cases of delayed effects following exposure to this product.

4.3. Indication of the need for immediate medical advice and special treatment

Contact a POISON CENTER or physician immediately.
Means to be available in the workplace for specific and immediate treatment

Running water for skin and eye washing.

SECTION 5. Firefighting measures

5.1. Extinguishing means

SUITABLE EXTINGUISHING MEANS
The means of extinguishing are: carbon dioxide, foam, chemical dust. For product leaks and spills that have not ignited, water mist can be used to disperse flammable vapors and protect people committed to stopping the leak.
UNSUITABLE MEANS OF EXTINGUISHING
Do not use water jets. Water is not effective at extinguishing fire, however it can be used to cool closed containers exposed to flame, preventing explosions and explosions.

5.2. Special hazards arising from the substance or mixture



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HAZARDS DUE TO EXPOSURE IN THE EVENT OF FIRE

Overpressure can be created in containers exposed to fire with a risk of explosion. Avoid breathing in the combustion products.

5.3. Recommendations for firefighters

GENERAL INFORMATION

Cool the containers with water jets to prevent the product from decomposing and developing substances that are potentially hazardous to health. Always wear full fire protection equipment. Collect extinguishing water that should not be discharged into the sewers. Dispose of contaminated water used for extinguishing and residual fire according to current regulations.

EQUIPMENT

Normal firefighting clothing, such as an open-circuit compressed air breathing apparatus (EN 137), flame-retardant suit (EN469), flame-retardant gloves (EN 659) and firefighter boots (HO A29 or A30).

SECTION 6. Measures in the event of accidental release

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Stop the leak if there is no danger.

Wear appropriate protective equipment (including personal protective equipment referred to in section 8 of the Safety Data Sheet) to prevent contamination of the skin, eyes and personal clothing. These indications are valid both for workers and for emergency interventions.

6.2. Environmental precautions

Prevent the product from entering sewers, surface water, groundwater.

6.3. Methods and materials for containment and remediation

Vacuum the spilled product into a suitable container. Evaluate the compatibility of the container to be used with the product, checking section 10. Absorb the remainder with inert absorbent material.

Provide sufficient ventilation of the place affected by the leak. Disposal of contaminated material shall be carried out in accordance with the provisions of point 13.

6.4. Reference to other sections

Any information regarding personal protection and disposal can be found in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Keep away from heat, sparks and open flames, do not smoke or use matches or lighters. Without adequate ventilation, vapours can accumulate on the ground and ignite even at a distance, if ignited, with the danger of backfire. Avoid the accumulation of electrostatic charges. Connect to an earth socket in the case of large packaging during decanting operations and wear antistatic shoes. Strong agitation and vigorous flow of liquid in pipes and equipment can cause the formation and accumulation of electrostatic charges. To avoid the danger of fire and explosion, never use compressed air in handling. Open containers carefully, as they may be under pressure. Do not eat, drink, or smoke during use. Avoid dispersing the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store closed containers in a well-ventilated place, away from direct sunlight. Store in a cool, well-ventilated place, away from heat sources, open flames, sparks and other sources of ignition. Store containers away from any incompatible materials, checking section 10.

7.3. Special end-uses

Information not available

SECTION 8. Exposure/Personal Protection Controls

8.1. Control parameters

Regulatory references:

ITA	Italy	Legislative Decree 9 April 2008, n.81
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2023

DIPROPYLENE GLYCOL MONOMETHYL ETHER						
Threshold limit value						
Type	State	TWA/8h		STEL/15min		Notes / Remarks
		mg/m3	Ppm	mg/m3	Ppm	
VLEP	ITA	308	50			SKIN
OIL	EU	308	50			SKIN
TLV-ACGIH			50			

ETHANOLAMINE						
Threshold limit value						
Guy	State	TWA/8h		STEL/15min		Notes / Remarks
		mg/m3	ppm	mg/m3	ppm	
OEL	ITA	2,5	1	7,6	3	SKIN
OIL	EU	2,5	1	7,6	3	SKIN
TLV-ACGIH		7,5	3	15	6	

PROPANE-2-OLO						
Threshold limit value						
Guy	State	TWA/8h		STEL/15min		Notes / Remarks
		mg/m3	ppm	mg/m3	Ppm	
TLV-ACGIH		492	200	983	400	

Legend:

(C) = CEILING ; INALAB = Inhalable fraction; RESPIR = respirable fraction; TORAC = Thoracic fraction.

8.2. Exposure Controls

Considering that the use of appropriate technical measures should always take priority over personal protective equipment, ensure good ventilation in the workplace by means of effective local suction.

When choosing personal protective equipment, seek advice from your chemical suppliers if necessary.
Personal protective equipment must bear the CE marking certifying its compliance with current standards.

Provide emergency showers with visocular basin.

HAND PROTECTION

Protect your hands with category III work gloves.
For the final choice of the material of the work gloves (ref. EN 374 standard) the following must be considered: compatibility, degradation, permeation time.
In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as it is not foreseeable. Gloves have a wear time that depends on the duration and mode of use.

SKIN PROTECTION

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

EYE PROTECTION

It is recommended to wear airtight protective goggles (ref. EN ISO 16321 standard).

RESPIRATORY PROTECTION

The use of respiratory protective equipment is necessary if the technical measures adopted are not sufficient to limit the worker's exposure to the threshold values taken into consideration. It is recommended to wear a mask with a type A filter whose class (1, 2 or 3) must be chosen in relation to the limit concentration of use. (ref. EN 14387 standard).
In the event that the substance in question is odourless or its odour threshold is higher than the relevant TLV-TWA and in an emergency, wear an open-circuit compressed air breathing apparatus (ref. EN 137 standard) or an external air intake respirator (ref. EN 138 standard). For the correct choice of respiratory protective device, refer to EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

Emissions from production processes, including those from ventilation equipment, should be controlled for compliance with environmental protection legislation.

SECTION 9. Physical and chemical properties

9.1. Information on fundamental physical and chemical properties

Property	Value	Information
Physical State	liquid	
Color	yellow	
Smell	characteristic	
Olfactory threshold	Not applicable	
Melting or freezing point	Not applicable	
Initial boiling point	Not applicable	
Boiling range	Not applicable	
Inflammability	non-flammable	
Lower explosive limit	Not applicable	
Upper explosive limit	Not applicable	
Flash point	> 60 °C	
Auto-ignition temperature	Not applicable	
Decomposition Temperature	Not applicable	
Self-accelerated decomposition temperature (TDAA)	Not applicable	

ph	10.50 - 11.49
Kinematic viscosity	Not applicable
Dynamic viscosity	Not applicable
Solubility	Water soluble
Partition coefficient: n-octanol/water	Not applicable
Vapour pressure	Not applicable
Density and/or Relative Density	0.95 - 1.05 Kg/l
Relative vapor density	Not applicable
Particle characteristics	Not applicable

9.2. Other information

9.2.1. Information on classes of physical hazards

Information not available

9.2.2. Other security features

Explosive properties	Non-explosive
Oxidizing properties	Non-oxidizing

SECTION 10. Stability and responsiveness

10.1. Responsiveness

There is no particular danger of reaction with other substances under normal conditions of use.

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Forms peroxides with: air.

10.2. Chemical Stability

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

10.3. Possibility of dangerous reactions

Vapors can form explosive mixtures with air.

DIPROPYLENE GLYCOL MONOMETHYL ETHER

It can react violently with: strong oxidizing agents.

ETHANOLAMINE

It can react dangerously with: acrylonitrile, chloroepoxypropane, chlorosulfuric acid, hydrogen chloride, iron-sulfur compounds, acetic acid, acetic anhydride, mesityl oxide, nitric acid, sulfuric acid, strong acids, vinyl acetate, cellulose nitrate.



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10.4. Conditions to be avoided

Avoid overheating. Avoid the accumulation of electrostatic charges. Avoid any ignition source.

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Avoid exposure to: heat sources. Possibility of explosion.

ETHANOLAMINE

Avoid exposure to: air, heat sources.

10.5. Incompatible Materials

ETHANOLAMINE

Incompatible with: iron, strong acids, strong oxidants.

10.6. Hazardous decomposition products

Gases and vapours that are potentially harmful to health can be released by thermal decomposition or in the event of a fire.

ETHANOLAMINE

It can develop: nitrogen oxides, carbon oxides.

SECTION 11. Toxicological information

11.1. Information on hazard classes defined in Regulation (EC) No 1272/2008

Metabolism, kinetics, mechanism of action and other information

Information not available

Information on probable routes of exposure

Information not available

Immediate, delayed and chronic effects from short- and long-term exposures

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation - vapours) of the mixture:	> 20 mg/l
ATE (Oral) of the mixture:	>2000 mg/kg
ATE (Cutaneous) of the mixture:	>2000 mg/kg

3-BUTOXY-2-PROPANOL

LD50 (Cutanea):	> 2000 mg/kg Rat
LD50 (Oral):	3300 mg/kg Rat

Isotridecanol ethoxylate (>7 - < 10EO)

LD50 (Oral):	555.556 mg/kg
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ETHANOLAMINE

LD50 (Cutanea):	2504 mg/kg
STA (Cutaneous):	1100 mg/kg estimated from Table 3.1.2 of Annex I of CLP (data used for the calculation of the estimation of the acute toxicity of the mixture)
LD50 (Oral):	1089 mg/kg Rat
LC50 (Vapor Inhalation):	> 1,3 mg/l/6h Rat
STA (Vapor Inhalation):	11 mg/l estimate from Table 3.1.2 of Annex I of CLP (data used for the calculation of the estimation of the acute toxicity of the mixture)

PROPANE-2-OL

LD50 (Cutanea):	12800 mg/kg Rat
LD50 (Oral):	4710 mg/kg Rat
LC50 (Vapor Inhalation):	72.6 mg/l/4h Rat

Orange oil terpenes

LD50 (Cutanea):	> 5000 mg/kg
LD50 (Oral):	> 5000 mg/kg

SKIN CORROSION / SKIN IRRITATION

Causes skin irritation

SEVERE EYE DAMAGE/EYE IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITIZATION

It can cause an allergic reaction.

Contains:

Orange oil terpenes

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

SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

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SPECIFIC TARGET ORGAN TOXICITY (STOT) - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

DANGER IN CASE OF SUCTION

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain any substances listed in the main European lists of potential or suspected endocrine disruptors with effects on human health under evaluation.

SECTION 12. Ecological information

Use according to good working practices, avoiding dispersing the product into the environment. Notify the competent authorities if the product has reached watercourses or if it has contaminated soil or vegetation.

12.1. Toxicity

Orange oil terpenes		
LC50 - Fish		2.76 mg/l/96h
EC50 - Crustaceans		1.1 mg/l/48h
EC50 - Algae / Aquatic Plants		150 mg/l/72h
ETHANOLAMINE		
NOEC Chronic Pisces		1,2 mg/l Oryzias latipes
NOEC Chronic Crustaceans		0,85 mg/l Daphnia magna

12.2. Persistence and degradability

DIPROPYLENE GLYCOL MONOMETHYL ETHER		
Water solubility		1000 - 10000 mg/l
Quickly degradable		
3-BUTOXY-2-PROPANOL		
Water solubility		52000 mg/l
Quickly degradable		
ETHANOLAMINE		
Water solubility		1000 - 10000 mg/l
Quickly degradable		
PROPANE-2-OLO		
Quickly degradable		

12.3. Bioaccumulation potential

DIPROPYLENE GLYCOL MONOMETHYL ETHER		
Partition coefficient: n-octanol/water		0,0043
3-BUTOXY-2-PROPANOL		
Partition coefficient: n-octanol/water		1,2



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ETHANOLAMINE

Partition coefficient: n-octanol/water -2,3

PROPANE-2-OL

Partition coefficient: n-octanol/water 0,05

12.4. Mobility in soil

Information not available

12.5. Results of the PBT and vPvB assessment

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

12.6. Endocrine Disrupting Properties

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

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, if possible. Product residues are to be considered hazardous special waste. The hazardousness of waste containing part of this product must be assessed in accordance with the applicable legal provisions.

Disposal must be entrusted to a company authorized to manage waste, in compliance with national and possibly local legislation.

The management of waste originating from the use or dispersion of this product must be organized in compliance with the regulations relating to safety at work. See section 8 for any need for PPE supplies.

CONTAMINATED PACKAGING

Contaminated packaging must be sent for recovery or disposal in compliance with national waste management regulations.

SECTION 14. Transportation Information

The product is not to be considered dangerous under the current regulations on the transport of dangerous goods by road (A.D.R.), by rail (RID), by sea (IMDG Code) and by air (IATA).

14.1. UN number or ID number

Not applicable

14.2. Official UN transport designation

Not applicable

14.3. Transport hazard classes

Not applicable

14.4. Packaging group

Not applicable

14.5. Hazards to the environment

Not applicable

14.6. Special precautions for users

Not applicable

14.7. Bulk shipping in accordance with IMO acts

Information not applicable

SECTION 15. Regulatory Information

15.1. Laws and regulations on health, safety and the environment specific to the substance or mixture

Seveso Category - Directive 2012/18/EU: None

Restrictions on the product or substances contained in Annex XVII Regulation (EC) 1907/2006

<u>Product</u>	
Point	3 - 40

Substances

Point 75

Regulation (EU) 2019/1148 – on the marketing and use of explosives precursors

Not applicable

Sostanze in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

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

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Health Checks

Workers exposed to this chemical agent dangerous to health must be subjected to health surveillance carried out in accordance with the provisions of art. 41 of Legislative Decree 81 of 9 April 2008 unless the risk to the safety and health of the worker has been assessed as irrelevant, in accordance with the provisions of art. 224 paragraph 2.

15.2. Chemical Safety Assessment

A chemical safety assessment has not been developed for the mixture/substances listed in section 3.

SECTION 16. Other information

Text of the hazard statements (H) mentioned in sections 2-3 of the sheet:

Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye injuries, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2

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STOT SE 3	Specific Target Organ Toxicity - Single Exposure, Category 3
Skin Sens. 1	Skin sensitization, 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
H225	Easily flammable liquid and vapours.
H226	Flammable liquid and vapors.
H302	Harmful was ingested.
H312	Harmful by skin contact.
H332	Harmful if inhaled.
H304	It can be fatal if swallowed and penetrated into the respiratory tract.
H314	It causes severe skin burns and serious eye damage.
H318	It causes serious eye damage.
H319	It causes severe eye irritation.
H315	Causes skin irritation.
H335	It can irritate the respiratory tract.
H317	It can cause an allergic skin reaction.
H336	It can cause drowsiness or dizziness.
H411	Toxic to aquatic organisms with long-lasting effects.
H412	Harmful to aquatic organisms with long-lasting effects.

- LEGEND:
- ADR: European Agreement for the Carriage of Dangerous Goods by Road
 - ATE/STA: Acute Toxicity Estimation
 - CAS: Chemical Abstract Service Number
 - EC: Identification number in ESIS (European Repository of Existing Substances)
 - CLP: Regulation (EC) 1272/2008
 - DNEL: Derived level with no effect
 - EC50: Concentration that affects 50% of the population being tested
 - EmS: Emergency Schedule
 - GHS: Global Harmonized System for the Classification and Labelling of Chemicals
 - IATA DGR: Regulations for the Carriage of Dangerous Goods of the International Air Transport Association
 - IC50: Immobilization concentration of 50% of the test population
 - IMDG: International Maritime Code for the Transport of Dangerous Goods
 - IMO: International Maritime Organization
 - INDEX: Identification number in Annex VI of the CLP
 - LC50: Lethal concentration 50%
 - LD50: Lethal dose 50%
 - OEL: Occupational exposure level
 - PBT: Persistent, bioaccumulative and toxic
 - PEC: Predictable environmental concentration
 - PEL: Predictable level of exposure
 - PMT: Persistent, mobile, and toxic
 - PNEC: Predictable no-effect concentration
 - REACH: Regulation (EC) 1907/2006
 - RID: Regulations for the International Carriage of Dangerous Goods by Train
 - TLV: Threshold Limit Value
 - TLV CEILING: Concentration that must not be exceeded during any time of occupational exposure.
 - TWA: Weighted Average Exposure Limit
 - TWA STEL: Short-Term Exposure Limit
 - VOC: Volatile Organic Compound
 - vPvB: Very persistent and very bioaccumulative
 - vPvM: Very persistent and very mobile
 - WGK: Aquatic hazard class (Germany).



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GENERAL BIBLIOGRAPHY:

1. Regulation (EC) 1907/2006 of the European Parliament (REACH)
 2. Regulation (EC) 1272/2008 of the European Parliament (CLP)
 3. Regulation (EU) 2020/878 (Annex II REACH Regulation)
 4. Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)
 5. Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
 6. Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)
 7. Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
 8. Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
 9. Regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)
 10. Regulation (EU) 2015/1221 of the European Parliament (VII Atp. CLP)
 11. Regulation (EU) 2016/918 of the European Parliament (VIII Atp. CLP)
 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
 13. Regulation (EU) 2017/776 (X Atp. CLP)
 14. Regulation (EU) 2018/669 (XI Atp. CLP)
 15. Regulation (EU) 2019/521 (XII Atp. CLP)
 16. Delegated Regulation (EU) 2018/1480 (XIII ATP. CLP)
 17. Regulation (EU) 2019/1148
 18. Delegated Regulation (EU) 2020/217 (XIV ATP. CLP)
 19. Delegated Regulation (EU) 2020/1182 (XV Atp. CLP)
 20. Delegated Regulation (EU) 2021/643 (XVI ATP. CLP)
 21. Delegated Regulation (EU) 2021/849 (XVII Atp. CLP)
 22. Delegated Regulation (EU) 2022/692 (XVIII Atp. CLP)
 23. Delegated Regulation (EU) 2023/707
 24. Delegated Regulation (EU) 2023/1434 (XIX Atp. CLP)
 25. Delegated Regulation (EU) 2023/1435 (XX Atp. CLP)
 26. Delegated Regulation (EU) 2024/197 (XXI 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
 - Sito Web IFA GESTIS
 - ECHA Agency website
 - Database of SDS models of chemical substances - Ministry of Health and Istituto Superiore di Sanità

Note to the user:

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

This document should not be construed as a guarantee of any specific property of the product.

Since the use of the product does not fall under our direct control, it is the user's obligation to observe the laws and regulations in force on hygiene and safety under their own responsibility. They do not accept responsibility for improper use.

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

CLASSIFICATION CALCULATION METHODS

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

Health hazards: The classification of the product is based on the calculation methods set out in Annex I of CLP Part 3, unless otherwise indicated in section 11.

Environmental hazards: The classification of the product is based on the calculation methods set out in Annex I of CLP Part 4, unless otherwise indicated in section 12.

Changes from previous revision

Changes have been made to the following sections:

03 / 04 / 09 / 12 / 13.