



SAFETY DATA SHEET

according to Regulation (EC) No. 2020/878

Menthol (L) EP (157)

Wersja	Revision Date:	SDS Number	Date of last issue: -
2.0	25.10.2021	300000017050	Date of first issue: 20.10.2021

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

1.1 Product identifier: Mentol (L) EP (157)

CAS: 895964
L-menthol
EC: 2216-51-5
Index: 218-690-9
REACH: Not applicable
01-2119458866-21-XXXX

Other means of identification:

No data

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

Recommended use: Aroma. Fragrance. For industrial use only.
Use advised against: Any use not mentioned above and in section 7.3

1.2 Details of the standard card provider:

Company : CCEU Sp. z o.o.
ul. Ostatnia 45
PL 60-102 Poznań

Telephone : +48 888 666 156

Email address to the person responsible for MSDS : reach@cristalchem.com

1.3 Emergency telephone number:

Clinical Department of Toxicology : +48 12 411 99 99

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

Regulation No. 1272/2008 (CLP):

The classification of this product was carried out in accordance with Regulation No. 1272/2008 (CLP).

Eye Irrit. 2: Serious eye damage / eye irritation, Hazard Category 2, H319

Skin Irrit. 2: Skin corrosion / irritation, Category 2, H3152.2

Label elements:

Regulation No. 1272/2008 (CLP):

Warning pictograms :



Signal word

: Warning

Hazard statements

: Eye Irrit: H319 – Irritating to eyes.

Skin Irrit. 2: H315 – Irritating to the skin.

Precautionary statements

: P264: Wash thoroughly after use.

P280: Use protective gloves / protective clothing / Face protection.

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

P332+P313: If skin irritation occurs: Get medical advice / attention.

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P337+P313:

If eye irritation persists: Get medical advice / attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

2.3 Other dangers:

The product does not meet the PBT / vPvB criteria.

The product fails due to its system-disrupting properties hormonal.


SECTION 3: Composition / information on ingredients

3.1 Substances:

Chemical description: Organic substance

Substances:

In accordance with Annex II to Regulation (EC) No 1907/2006 (point 3), the product contains:

Identification	Chemical name / classification		Concentration
CAS: 2216-51-5 EC: 218-690-9 Index: Not applicable REACH: 01-2119458866-21-XXXX	L-menthol		100%
	Ordinance 1272/2008	Eye Irrit. 2:H319; Skin Irrit. 2: H315 – Warning 	

For more information on the hazards of substances, see sections 11, 12 and 16

Other information:

Identification	Specific concentration limit
L-mentol CAS: 2216-51-5 EC: 218-690-9	%(m/m) >=25: Skin Irrit. 2 – H315 %(m/m) >=25: Eye Irrit. 2 – H319

3.2 Mixtures:

Not applicable

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SECTION 4: First aid measures

4.1 Description of first aid measures:

Symptoms as a result of poisoning may occur only after exposure, therefore in case of doubt, direct exposure to a chemical product or prolonged ill-being, contact a doctor and show him the Product Safety Data Sheet.

By inhalation:

The product does not contain substances classified as dangerous for inhalation, but in the event of poisoning symptoms, remove the injured from the exposure zone and provide him with fresh air.

Consult a physician if symptoms persist or worsen

By skin contact:

Take off contaminated clothes and shoes, clean the skin or wash the injured person with natural soap, rinsing thoroughly with cold water. In case of serious discomfort, see a doctor. If the mixture caused burns or frostbite, do not remove the clothes from the injured person, as if the clothes are stuck to the skin it may cause even more injuries. If blisters appear on the skin, do not pierce the skin as this may increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with water at room temperature for 15 minutes. Do not allow the victim to rub or close his eyes. If the injured person wears contact lenses, they should be removed, unless they are stuck to the eye, otherwise further damage may be caused.

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By ingestion / aspiration:

In all cases, after washing the victim, consult a doctor as soon as possible and show him the Material Safety Data Sheet.

Do not induce vomiting and if necessary, keep head tilted forward to prevent aspiration of stomach contents. Provide the injured person with rest. Rinse mouth and throat as they have most likely been contaminated by ingestion.

The most important acute and delayed symptoms and effects of exposure:

Acute and delayed effects of exposure are given in section 2 i 11.

Indication of any immediate medical aid and special treatment of the injured:

No data

SECTION 5: Fire-fighting measures

5.1 Extinguishing media:

Suitable extinguishing media:

The product is non-flammable under normal conditions of storage, manipulation and use. In the event of fire due to improper handling, storage or use, powder extinguishers (ABC powder) should be used, in accordance with the Regulation on fire protection devices.

Inappropriate extinguishing media:

No data.

5.2 Special hazards related to the substance or mixture:

As a result of combustion or thermal decomposition, reaction sub-products are formed which can be highly toxic and consequently can pose a serious health risk.

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5.3 Information for firefighters:

Depending on the extent of the fire, it may be necessary to wear complete protective clothing and self-contained breathing equipment. A minimum supply of emergency devices and measures (fire blankets, first aid kit) in accordance with Directive 89/654 / EC should be available.

Additional provisions:

Act in accordance with the Internal Emergency Plan and information leaflets describing what to do in the event of accidents and other emergencies. Kill all sources of ignition. In the event of fire, cool the vessels and tanks used to store products susceptible to BLEVE's fire, explosion or explosion due to high temperatures. Do not allow products used to extinguish a fire to enter the water tank.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Sweep up and scoop up the product with a spatula or other tool and place it in a container for safe disposal.

For people giving help:

See section 8.

6.2 Environmental precautions:

The product is not classified as hazardous. Do not allow contamination of ground and surface waters, water courses, soil, sewage system.

6.3 Methods and materials preventing the spread of contamination and used for removing contamination:

It is recommended that:

Sweep up and scoop up the product with a spatula or other tool and place it in a container for safe disposal.

6.4 Reference to other sections:

See also 8 and 13.

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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions necessary for safe handling of the product. Comply with the applicable laws regarding the prevention of risks in the workplace. Keep the packages tightly closed. Control spills and wastes by safe disposal methods (section 6). Avoid spontaneous release from containers. Keep order and cleanliness when handling hazardous products.

B.- Technical recommendations for the prevention of fires and explosions. Due to the degree of flammability, the product does not constitute a fire hazard under normal conditions of storage, handling and use.

C.- Technical recommendations to prevent toxicological risks. Do not eat or drink when handling the product, wash your hands with an appropriate cleaning agent after completing the procedure.

D.- Technical recommendations to prevent environmental risks. It is recommended to store absorbent material in the vicinity of the product (see section 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical aspects of storage.

Min. temp.: No data

Maks.temp.: No data

B.- General storage conditions.

Avoid sources of heat, radiation and electrostatics. Keep away from food. For more information see section 10.5.

7.3 Specific end use (s):

Apart from the aforementioned guidelines, it is not necessary to follow any specific recommendations regarding the use of this product.

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SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters:

Occupational exposure limits should be monitored for the following substances:

Dusts not classified due to toxicity (Dusts not classified due to toxicity): NDS = 10 mg / m³

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systematic	Locally	Systematic	Locally
L-menthol CAS: 2216-51-5 EC: 218-690-9	Orally	No data	No data	No data	No data
	Skin	No data	No data	19 mg/kg	No data
	Inhalation route	No data	10 mg/m ³	132 mg/m ³	10 mg/m ³

DNEL (Populaciji):

Identification		Short exposure		Long exposure	
		Systematic	Locally	Systematic	Locally
L-menthol CAS: 2216-51-5 EC: 218-690-9	Orally	No data	No data	9,4 mg/kg	No data
	Skin	No data	No data	9,4 mg/kg	No data
	Inhalation route	No data	No data	33 mg/m ³	No data

PNEC:

Identification				
L-menthol CAS: 2216-51-5 EC: 218-690-9	Sewage treatment plant	2,37 mg/L	Fresh water	0,0156 mg/L
	Soils	0,0484 mg/kg	Sea waters	0,00156 mg/L
	Occasional	0,156 mg/L	Sediment (fresh water)	0,289 mg/kg
	Orally	0,0833 g/kg	Sediment (sea water)	0,0289 mg/kg

8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment As a preventive measure, it is recommended to use protective clothing marked with the "CE marking". More information on protective clothing (storage, use, cleaning, maintenance, protection class ...) can be found in the information brochure provided by the protective clothing manufacturer. The directions here are for the pure product.

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The instructions for the diluted product may vary according to the dilution ratio, application, method of application, etc. When determining the obligation to install emergency showers and / or eye washes in storage, the regulations regarding the storage of chemical products will be taken into account. For more information, see sections 7.1 and 7.2



All information contained in this point - due to the lack of information on the protective equipment owned by the company - should be treated as a recommendation in order to prevent the risk of a risk when working with the product.

B.- Respiratory protection. In the event of a mist formation or when the occupational exposure limits are exceeded, it will be necessary to use respiratory protection.

C.- Particular hand protection.

Pictogram	Protective equipment	Marking	CEN Standards	Remarks
 Mandatory hand protection	Gloves to protect against less serious risks			Gloves should be replaced if there is any sign of damage. During periods of prolonged exposure to the product of professional / industrial users, it is recommended to use CE III gloves in accordance with EN 420: 2004 + A1: 2010 and EN ISO 374-1: 2016 + A1: 2018

D. – Eye and face protection.

Pictogram	Protective equipment	Marking	CEN Standards	Remarks
 Mandatory face protection	Panoramic glasses against liquid splashes and / or splashes		EN 166:2002 EN ISO 4007:2018	Clean daily and disinfect regularly as recommended by the manufacturer. Recommended when there is a risk of liquid splash.



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E.- Body protection

Pictogram	Protective equipment	Marking	CEN Standards	Remarks
	Workwear			Replace if there is any sign of damage. In the event of prolonged exposure to the product, professional / industrial users are advised to use EC III in accordance with EN ISO 6529: 2013, EN ISO 6530: 2005, EN ISO 13688: 2013, EN 363: 1994
	Non-slip work shoes		EN ISO 20347:2012	Replace if there is any sign of damage. In case of prolonged exposure to the product, professional / industrial users are advised to use EC III in accordance with EN ISO 20345: 2012 and EN 13832-1: 2007

F.- Additional emergency measures.

Emergency measures	Standards	Emergency measures	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eye rinse device	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Environmental exposure controls:

Pursuant to the Community law on environmental protection, it is recommended to prevent the product and its packaging from getting into the environment. For more information see section 7.1.

Volatile organic compounds:

In accordance with the requirements of Journal Of Laws 2020, item 1860, this product has the following properties:

LZO (Contents):	0 % masa
Concentration LZO 20 °C:	0 kg/m ³ (0 g/L)
Average number of carbons:	No data
Average molecular weight:	No data

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

See product datasheet for complete information.

Physical appearance:

State of aggregation 20 °C:	Solid
Appearance:	Indefinite
Color:	Characteristic
Smell:	Characteristic
Odor threshold:	No data *

* No information on the risks posed by the product.

Volatility:

Boiling point at atmospheric pressure:	No data *
Vapor pressure 20 °C:	No data *
Vapor pressure 50 °C:	No data *
Evaporation Rate:	No data *

Product characteristics:

Density 20 °C:	1000 kg/m ³
Relative density 20 °C:	No data *
Dynamic viscosity 20 °C:	No data *
Kinematic viscosity 20 °C:	No data *
Kinematic viscosity 40 °C:	No data *
Concentration:	No data *
pH:	No data *
Vapour density 20 °C:	No data *
Partition coefficient n-octanol / water 20 °C:	3,3
Water solubility 20 °C:	4,31E-1 kg/m ³
The degree of solubility:	No data *
Decomposition temperature:	No data *
Melting point / freezing point:	42,1 – 43,4 °

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Combustibility:

Flash-point:	>100 °C
Flammability (solid, gas):	No data *
Ignition temperature:	405°C
Lower flammability limit:	No data *
Upper flammability limit:	No data *

Explosive (Solid):

Lower explosive limit:	0,8 Vol %
Upper explosive limit:	7 Vol %

Characteristics of molecules:

Median equivalent diameter:	No data *
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9.2 Other information's:

Information on the physical hazard classes:

Explosive properties:	No data *
Oxidizing properties:	No data *
Corrosive to metals:	No data *
Heat of combustion:	No data *
Aerosols - the total percentage (by mass) of flammable components:	No data *

Other safety properties:

Surface tension 20 °C:	No data *
Refractive index:	No data *

*There is no information about the risks posed by the product

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

The product is non-reactive under storage and storage conditions. See point 7.

10.2 Chemical stability:

Chemically stable in conditions of storage and use.

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10.3 Possibility of hazardous reactions:

They do not occur if the product is stored and stored in accordance with the instructions.

10.4 Conditions to Avoid:

Use and store at room temperature.

Shock and friction	Contact with air	Heating	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidizers	Flammable materials	Other
Avoid strong acids	Not applicable	Not applicable	Not applicable	Avoid strong rules

10.6 Hazardous decomposition products:

For a detailed description of the decomposition products see sections 10.3, 10.4 and 10.5.

Depending on the conditions of decomposition, complex mixtures of chemicals may be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds. See section 5 for more information.

SECTION 11: TOXICOLOGICAL INFORMATION

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

The experimental information on the toxicological properties of the product is not available.

Health hazard:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, side effects on health may arise depending on the route of exposure.:

A- Ingestion (acute effect):

- Acute toxicity: Based on the available data, the classification criteria are not met. The product does not contain substances classified as dangerous for ingestion. See section 3 for more information.
- Corrosive / Irritating: Swallowing a significant dose of the product may cause throat irritation, abdominal pain, dizziness and vomiting..

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B- Inhalation (acute effect):

- Acute toxicity: Based on the available data, the classification criteria are not met. The product does not contain substances classified as dangerous for inhalation. See section 3 for more information.
- Corrosive / Irritating: Based on the available data, the classification criteria are not met. The product does not contain substances classified as dangerous. See section 3 for more information.

C- Contact with skin and eyes (acute effect):

- Skin contact: Produces skin inflammation on contact
- Eye contact: Produces eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on the available data, the classification criteria are not met. The product does not contain substances classified as dangerous with the above-mentioned effects. See section 3 for more information.

IARC: No data

- May cause genetic defects: Based on the available data, the classification criteria are not met. The product does not contain substances classified as dangerous. See section 3 for more information.
- May damage fertility: Based on the available data, the classification criteria are not met. The product does not contain substances classified as dangerous. See section 3 for more information.

E- Sensitizing effects:

- Respiratory: Based on the available data, the classification criteria are not met. The product does not contain substances classified as dangerous due to their sensitizing effects. See section 3 for more information.
- Dermal: Based on the available data, the classification criteria are not met. The product does not contain substances classified as dangerous. See section 3 for more information.

- F- Specific target organ toxicity (STOT) -time exposure: Based on the available data, the classification criteria are not met. The product does not contain substances classified as dangerous. See section 3 for more information.

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G- Specific target organ toxicity (STOT), repeated exposure:

- Specific target organ toxicity (STOT), repeated exposure: Based on the available data, the classification criteria are not met. The product does not contain substances classified as dangerous. See section 3 for more information.
- Skin: Based on the available data, the classification criteria are not met. The product does not contain substances classified as dangerous. See section 3 for more information.

H- Aspiration hazard:

Based on the available data, the classification criteria are not met. The product does not contain substances classified as dangerous. See section 3 for more information.

Other information: No data. Detailed toxicological information about the substances:

Identification	Acute Toxicity		Type
L-menthol	LD50 mouth	2300 mg/kg	Rat
CAS: 2216-51-5	LD50 dermal	No data	
EC: 218-690-9	LC50 inhalation	No data	

11.2 Information about other threats:

Endocrine disrupting properties:

The product does not meet the criteria because of its endocrine disrupting properties.

Others information

No data

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

Toxic effect of the product on aquatic organisms:

	Acute Toxicity	Type	Type
LC50	15,6 mg/L (96 h)	Not applicable	Fish
EC50	26,6 mg/L (48 h)	Not applicable	Shellfish

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Toxic effect of substances on aquatic organisms:

Acute Toxicity:

Identification	Concentration		Type	Type
L-mentol CAS:2216-51-5 EC: 218-690-9	LC50	15,6 mg/L (96 h)	Brachydanio rerio	Fish
	EC50	26,6 mg/L (48 h)	Daphnia magna	Shellfish
	EC50	No data		

12.2 Persistence and degradability:

Identification	Degradability		Biodegradability	
	L-mentol CAS:2216-51-5 EC: 218-690-9	BZT5	No data	Concentration
ChZT		No data	Period	28 days
BZT5/ChZT		No data	% biodegradable	79 %

12.3 Bioaccumulative potential

Indefinite

12.4 Mobility in soil:

Identification	Absorption / Desorption		Variability	
	L-mentol CAS:2216-51-5 EC: 218-690-9	Blanket	149	Henry's constant
Conclusions		No data	Dry soil	No data
Surface tension		No data	Damp soil	No data

12.5 Results of PBT and vPvB assessment:

The product does not meet the PBT / vPvB criteria.

12.6 Endocrine disrupting properties:

The product does not meet the criteria because of its endocrine disrupting properties.

12.7 Other harmful effects:

Not reported

SECTION 13: DISPOSAL OF WASTE

13.1 Metody unieszkodliwiania odpadów:

Code	Description	Type of waste (Commission Regulation (EU) No 1357/2014)
20 01 29*	Detergents containing dangerous substances	Dangerous

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Type of waste (Commission Regulation (EU) No. 1357/2014):

HP4 Irritating - irritating to the skin and causing eye damage

Waste administration (disposal and assessment):

It should be handed over to a specialized disposal company authorized to assess and remove waste in accordance with Annex 1 and Annex 2 (Directive 2008/98 / EC of the European Parliament and of the Council) and Journal of Laws No. 2021 item 779. According to the code 15 01 (2014/955 / EU), when the container is in direct contact with the product, handle it in the same way as the product. Otherwise, it must be treated as non-hazardous waste. Its discharge into water courses is not recommended. See section 6.2.

Waste administration provisions:

Pursuant to Annex II of Regulation (EC) No. 1907/2006 (REACH), Community or national provisions related to waste management have been adopted. Community law: Directive 2008/98 / EC, 2014/955 / EU, Commission Regulation (EU) No. 1357/2014

National law:

Act of 13 June 2013 on the management of packaging and packaging waste (i.e. Journal of Laws of 2021, item 1114). Act of December 14, 2012 on waste (i.e. Journal of Laws 2021 item 779).

SECTION 14: TRANSPORT INFORMATION

Other relevant information:

ADR / RID: Not applicable;
IMDG: Not applicable;
IATA: Not applicable;

SECTION 15: REGULATORY INFORMATION



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

Candidate substances for authorization according to Regulation (EC) 1907/2006 (REACH):

No data

Substances present in Annex XIV of REACH (authorization list) and expiry date:

No data

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer:

No data

Article 95, REGULATION (EU) OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (EU) No 528/2012: No data REGULATION (EU) No 649/2012 concerning the export and import of hazardous chemicals:

No data

Restrictions on the sale and use of certain hazardous substances and mixtures (Annex XVII of REACH, etc ...):

No data

Specific provisions for the protection of people or the environment:

It is recommended to use the information collected in this safety data sheet as a preliminary data to assess the local risk in order to take the necessary steps to prevent the risks associated with the handling, use, storage and disposal of this product.

Other recipes:

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45 / EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94, as well as Council Directive 76/769 / EEC and Commission Directives 91/155 / EEC, 93/67 / EEC, 93/105 / EC and 2000/21 / EC as amended.



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Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548 / EEC and 1999/45 / EC, and amending Regulation (EC) No. 1907/2006 as amended.

Act of February 25, 2011 on chemical substances and their mixtures (i.e. Journal of Laws 2020, item 2289). Social Policy on general provisions on health and safety at work (Journal of Laws of 2003, No. 169, item 1650, as amended)

Regulation of the Minister of Health of February 2, 2011 on tests and measurements of factors harmful to health in the work environment (Journal of Laws No. 33 item 166 of 2011)

Act of December 14, 2012 on waste (i.e. Journal of Laws 2021 item 779).

Act of October 9, 2015 on biocidal products (ie Journal of Laws of 2021, item 24).

Commission Directive 2000/39 / EC of 8 June 2000 establishing the first list of indicative exposure limits to external factors at work in relation to the implementation of Council Directive 98/24 / EEC on the protection of the health and safety of workers from the risks related to chemical agents in the workplace.

Commission Directive 2006/15 / EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24 / EC and amending Directives 91/322 / EEC and 2000/39 / EC.

Commission Directive 2009/161 / EU of 17 December 2009 establishing a third list of occupational exposure indicia for the implementation of Council Directive 98/24 / EC and amending Commission Directive 2000/39 / EC.

Regulation of the Minister of Health of 11 June 2012 on the category of hazardous substances and dangerous mixtures, the packaging of which is equipped with closures that hinder opening by children and a tactile warning of danger (i.e. Journal of Laws of 2014, No. 0, item 1604) (recognized too repealed)

Regulation of the Minister of Economy of December 21, 2005 on the essential requirements for personal protective equipment (Journal of Laws of 2005, No. 259, item 2173).

Act of 19 August 2011 on the transport of dangerous goods (i.e. Journal of Laws of 2021, No. 0, item 756).

Government Statement of May 22, 2013 on the entry into force of amendments to the Regulations on the International Carriage of Dangerous Goods by Rail (RID), attached as Appendix C to the Convention Concerning International Carriage by Rail (COTIF), drawn up in Bern on May 9, 1980. . (Journal of Laws of 2013, item 840).



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Regulation of the Minister of Economy of 10 October 2013 on the application of the restrictions specified in Annex XVII to Regulation 1907/2006 (i.e. Journal of Laws of 2018, item 1865)

Act of 13 June 2013 on the management of packaging and packaging waste (i.e. Journal of Laws of 2021, item 1114).

Regulation of the Minister of Economy of January 29, 2013. on restrictions in the production, marketing or use of hazardous or hazardous substances and mixtures and on placing on the market or use of products containing such substances or mixtures (i.e. Journal of Laws of 2019, No. 0, item 1226)

Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) 1907/2006 and repealing Regulation (EU) No 98/20013.

Regulation of the Minister of the Environment of 9 December 2014. on the waste catalog (Journal of Laws of 2014, No. 0, item 1923) (deemed repealed).

Government statement of February 18, 2019. on the entry into force of amendments to Annexes A and B to the European Agreement on the International Carriage of Dangerous Goods by Road (ADR), drawn up in Geneva on September 30, 1957 (Journal of Laws 2019, item 769)

Act of 15 May 2015 on substances that deplete the ozone layer and on certain fluorinated greenhouse gases (i.e. Journal of Laws 2020, item 2065)

Regulation of the Minister of Health of 30 December 2004 on occupational health and safety related to the presence of chemical agents in the workplace (i.e. Journal of Laws of 2016, No. 0, item 1488),

Act of 29 July 2005 on counteracting drug addiction (i.e. Journal of Laws 2020, item 2050)

Regulation of the Minister of Health of 24 July 2012 on chemical substances, their mixtures, agents or technological processes having a carcinogenic or mutagenic effect in the work environment (i.e. Journal of Laws of 2016, No. 0 item 1117, as amended).

Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws 2018, item 1286, as amended)

Regulation (EC) No 648/2004 of the European Parliament and of the Council of March 31, 2004 on detergents

Commission Regulation (EC) No 907/2006 of 20 June 2006 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents in order to adapt its Annexes III and VII



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Commission Regulation (EC) No 551/2009 of 25 June 2009 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents to adapt Annexes V and VI to that Regulation (surfactant derogation)

Regulation (EC) No 1336/2008 of the European Parliament and of the Council of 16 December 2008 amending Regulation (EC) No 648/2004 to adapt it to Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures (Journal of Laws UE L 354 of 31 December 2008)

15.2 Chemical safety assessment:

A chemical safety assessment has not been performed

SECTION 16: OTHERS INFORMATIONS

Regulations concerning the Safety Data Sheets

This safety data sheet was prepared in accordance with ANNEX II-Guide for persons preparing Safety Data Sheets to Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878)

Changes to the previous safety data sheet influencing risk management:

No data

Texts of the regulation mentioned in section 2:

H315: Irritating to the skin.

H319: Irritating to eyes.

Texts of the regulation mentioned in section 3:

The phrases given do not refer to the product itself, they are for informational purposes only and refer to the individual ingredients that appear in chapter 3.

Regulation No. 1272/2008 (CLP):

Eye Irrit. 2: H319 - Irritating to eyes.

Skin Irrit. 2: H315 - Irritating to the skin.

Advice on the training of staff:

It is recommended that personnel who will handle this product receive basic occupational safety training to facilitate understanding and interpretation of the safety data sheet and product label.

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Main literature sources:

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

Abbreviations used in the text:

Classes. available: Supplier classification

ADR: international convention relating to the carriage of goods and loads by road
dangerous

IMDG: International Dangerous Goods Code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

COD: Chemical Oxygen Demand (COD)

BOD: Biochemical oxygen demand (BOD) in 5 days

BCF: bioconcentration factor

Log POW: log octanol / water partition coefficient logarithm

NDS: the highest permissible concentration

STEL: maximum permissible instantaneous concentration

EC50: effective concentration (the concentration of the component where 50% of the organisms are effective in specified time)

LD50: medial lethal dose

LC50: medial lethal concentration

EC50: Median Effective Concentration

PBT: Toxic substances can bioaccumulate

vPvB: Toxic substances are very bioaccumulative

IWO: personal protective equipment

STP: sewage treatment plants

Henry: solubility of a given component in solution depending on the partial pressure this component above the solution

EC: EINECS and ELINCS number (see also EINECS and ELINCS)

EINECS: European Inventory of Existing Commercial Substances

ELINCS: European Inventory of Notified Chemicals

CEN: European Committee for Standardization

STOT: specific target organ toxicity Koc: partition coefficient normalized to

organic carbon content determines the degree of absorption of organic substances in the soil

DNEL: Derived No Effect Level



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PNEC: Predicted No Effect Concentration

BDO: registration number from the Waste Database

UFI: Unique formulation identifier. IARC: International Agency for Research on Cancer

The information contained in this Material Safety Data Sheet is correct to the best of our knowledge and belief at the date of its publication. The information provided is intended solely as a guide for safe handling, use, processing, storage, transportation, disposal and release and cannot be considered a warranty or quality specification. The information relates only to the specific material indicated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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