

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

Ludwik Ekologiczny - dishwasher powder

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: Ludwik Ekologiczny - dishwasher powder

Other means of identification:

Not relevant

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

Relevant uses: Cleaner

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:

GRUPA INCO S.A. ul. Wspólna 25

00-519 Warszawa - Mazowieckie - Polska

Phone: +48 22 71 15 900 info.produkty@inco.pl

www.inco.pl

1.4 Emergency telephone number: +48 22 7115900 (7.30-15.30)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Eye Irrit. 2: Eye irritation, Category 2, H319

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Warning



Hazard statements:

Eye Irrit. 2: H319 - Causes serious eye irritation.

Precautionary statements:

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

P102: Keep out of reach of children.

P264: Wash thoroughly after handling.

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

Continue rinsing.

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

P501: Dispose of contents/container according to the separated collection system used in your municipality.

Supplementary information:

EUH208: Contains Subtilisin. May produce an allergic reaction.

2.3 Other hazards:

Product does not meet PBT/vPvB criteria

Endocrine-disrupting properties: The product does not meet the criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Not relevant

3.2 Mixture:

Chemical description: Mixture composed of chemical products

Components:

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



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

	Identification		Chemical name/Classification		Concentration	
CAS:	497-19-8	sodium carbonate(1)		ATP CLP00		
	207-838-8 011-005-00-2 01-2119485498-19- XXXX	Regulation 1272/2008	Eye Irrit. 2: H319 - Warning	! >	25 - <40 %	
CAS:	15630-89-4	Disodium carbonate,	compound with hydrogen peroxide (2:3)(1)	Self-classified		
	239-707-6 Not relevant 01-2119457268-30- XXXX	Regulation 1272/2008	Acute Tox. 4: H302; Eye Dam. 1: H318; Ox. Sol. 3: H272 - Danger		10 - <12 %	
CAS: 13870-28-5		Disodium disilicate(1)		Self-classified		
	Regulation 1777/70	Regulation 1272/2008	Eye Dam. 1: H318 - Danger	\$	2 - <5 %	
CAS:	1344-09-8	Silicic acid, sodium sa	alt (2.6 < MR <=3.2) ⁽¹⁾	Self-classified		
	215-687-4 Not relevant 01-2119448725-31- XXXX	Regulation 1272/2008	Eye Irrit. 2: H319; Skin Irrit. 2: H315; STOT SE 3: H335 - Warning	(! >	3 - <5 %	
CAS:	111905-53-4	Alcohols, C13-15-bra	nched and linear, butoxylated ethoxylated(1)	Self-classified		
	Not relevant Not relevant Not relevant	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Chronic 3: H412; Eye Irrit. 2: H319 - Warning	! >	1 - <3 %	
CAS: 9014-01-1		Subtilisin(1)		Self-classified		
	EC: 232-752-2	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Eye Dam. 1: H318; Resp. Sens. 1: H334; Skin Irrit. 2: H315; STOT SE 3: H335 - Danger		0,1 - <1 %	

⁽¹⁾ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

Other information:

Identification	Specific concentration limit
Disodium carbonate, compound with hydrogen peroxide (2:3) CAS: 15630-89-4 EC: 239-707-6	% (w/w) >=25: Eye Dam. 1 - H318 7,5<= % (w/w) <25: Eye Irrit. 2 - H319
Disodium disilicate CAS: 13870-28-5 EC: 237-623-4	% (w/w) >=10: Eye Dam. 1 - H318 1<= % (w/w) <10: Eye Irrit. 2 - H319

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

This product is not classified as hazardous when in contact with the skin. However, in case of skin contact it is recommended to remove contaminated clothes and shoes, rinse the skin or if necessary shower the affected person thoroughly with cold water and neutral soap. In case of serious reaction consult a doctor.



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SECTION 4: FIRST AID MEASURES (continued)

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Not relevant

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Water

Unsuitable extinguishing media:

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and Self Contained Breathing Apparatus. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

It is recommended to avoid environmental spillage of both the product and its container.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:



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SECTION 7: HANDLING AND STORAGE (continued)

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Due to its non-inflammable nature, the product does not present a fire risk under normal conditions of storage, handling and use.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Preferably use aspiration for cleaning. Given the danger of the product by inhalation, any cleaning method that involves exposure to the product in this way (sweeping, etc.) is not recommended

7.2 Conditions for safe storage, including any incompatibilities:

A.- Specific storage requirements

Store in a cool, dry, well-ventilated location

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Nuisance dust: Inhalable dust 10 mg/m3 // Respirable dust 4 mg/m3

DNEL (Workers):

		Short e	xposure	Long e	xposure
Identification		Systemic	Local	Systemic	Local
sodium carbonate	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 497-19-8	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 207-838-8	Inhalation	Not relevant	Not relevant	Not relevant	10 mg/m ³
Disodium carbonate, compound with hydrogen peroxide (2:3)	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 15630-89-4	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 239-707-6	Inhalation	Not relevant	Not relevant	Not relevant	5 mg/m ³
Disodium disilicate	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 13870-28-5	Dermal	Not relevant	Not relevant	318 mg/kg	Not relevant
EC: 237-623-4	Inhalation	Not relevant	Not relevant	11,21 mg/m ³	Not relevant
Silicic acid, sodium salt (2.6 < MR <=3.2)	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 1344-09-8	Dermal	Not relevant	Not relevant	1,59 mg/kg	Not relevant
EC: 215-687-4	Inhalation	Not relevant	Not relevant	5,61 mg/m ³	Not relevant

DNEL (General population):

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
sodium carbonate	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 497-19-8	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 207-838-8	Inhalation	Not relevant	10 mg/m ³	Not relevant	Not relevant
Disodium disilicate	Oral	Not relevant	Not relevant	1,59 mg/kg	Not relevant
CAS: 13870-28-5	Dermal	Not relevant	Not relevant	159 mg/kg	Not relevant
EC: 237-623-4	Inhalation	Not relevant	Not relevant	2,39 mg/m ³	Not relevant



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

		Short exposure		Long	Long exposure	
Identification		Systemic	Local	Systemic	Local	
Silicic acid, sodium salt (2.6 < MR <=3.2)	Oral	Not relevant	Not relevant	0,8 mg/kg	Not relevant	
CAS: 1344-09-8	Dermal	Not relevant	Not relevant	0,8 mg/kg	Not relevant	
EC: 215-687-4	Inhalation	Not relevant	Not relevant	1,38 mg/m ³	Not relevant	
Subtilisin	Oral	3,6 mg/kg	Not relevant	1,8 mg/kg	Not relevant	
CAS: 9014-01-1	Dermal	Not relevant	Not relevant	Not relevant	Not relevant	
EC: 232-752-2	Inhalation	Not relevant	Not relevant	Not relevant	Not relevant	

PNEC:

Identification				
Disodium carbonate, compound with hydrogen peroxide (2:3)	STP	16,24 mg/L	Fresh water	0,035 mg/L
CAS: 15630-89-4	Soil	Not relevant	Marine water	0,035 mg/L
EC: 239-707-6	Intermittent	0,035 mg/L	Sediment (Fresh water)	Not relevant
	Oral	Not relevant	Sediment (Marine water)	Not relevant
Disodium disilicate	STP	28 mg/L	Fresh water	7,5 mg/L
CAS: 13870-28-5	Soil	1,47 mg/kg	Marine water	7,5 mg/L
EC: 237-623-4	Intermittent	Not relevant	Sediment (Fresh water)	29,4 mg/kg
	Oral	0,106 g/kg	Sediment (Marine water)	29,4 mg/kg
Silicic acid, sodium salt (2.6 < MR <=3.2)	STP	348 mg/L	Fresh water	7,5 mg/L
CAS: 1344-09-8	Soil	Not relevant	Marine water	1 mg/L
EC: 215-687-4	Intermittent	7,5 mg/L	Sediment (Fresh water)	Not relevant
	Oral	Not relevant	Sediment (Marine water)	Not relevant
Subtilisin	STP	65 mg/L	Fresh water	0,0017 mg/L
CAS: 9014-01-1	Soil	0,568 mg/kg	Marine water	0,00017 mg/L
EC: 232-752-2	Intermittent	0,0009 mg/L	Sediment (Fresh water)	Not relevant
	Oral	Not relevant	Sediment (Marine water)	Not relevant

8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

If the working conditions and/or safety measures adopted do not allow keeping the airborne concentration of the product below the exposure limits (if any) or at acceptable levels (if no exposure limits exist), suitable respiratory protection equipment chosen by a qualified professional should be used.

C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand protection	Chemical protective gloves (Material: Nitrile, Breakthrough time: > 480 min, Thickness: 0.11 mm)	CAT III	EN ISO 21420:2020	Replace the gloves at any sign of deterioration.

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory face protection	Panoramic glasses against splash/projections.	CATII	EN 166:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Body protection



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Work clothing	CATI		Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
	Anti-slip work shoes	CATII	EN ISO 20347:2022	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2022 y EN 13832-1:2007

F.- Additional emergency measures

It is advised to implement additional emergency equipments in workplaces that are particularly exposed to the product or in situations where risk assessments highlight the necessity of such equipments.

Emergency measure	Standards	Emergency measure	Standards
Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Environmental exposure controls:

To comply with environmental protection regulations, it is recommended to prevent any spillage of the product and its container. For more detailed information, please refer to subsection 7.1.D.

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply): 0 % weight
V.O.C. density at 20 °C: 0 kg/m³ (0 g/L)
Average carbon number: Not relevant
Average molecular weight: Not relevant

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 °C:

Appearance:

Colour:

Odour:

Odourless

Odour threshold:

Powdery

White

Odourless

Not relevant *

Volatility:

Boiling point at atmospheric pressure:

Vapour pressure at 20 °C:

Vapour pressure at 50 °C:

Not relevant *

Evaporation rate at 20 °C:

Not relevant *

Product description:

Density at 20 °C: 1701,8 kg/m³
Relative density at 20 °C: 1,702

Dynamic viscosity at 20 °C: Not relevant *

Kinematic viscosity at 20 °C: Not relevant *

Kinematic viscosity at 40 °C: Not relevant *

*Not relevant tue to the nature of the product, not providing information property of its hazards.

Solid

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Concentration: Not relevant * pH: 10 - 11 (at 1 %) Vapour density at 20 °C: Not relevant * Partition coefficient n-octanol/water 20 °C: Not relevant * Solubility in water at 20 °C: Not relevant * Not relevant * Solubility properties: Decomposition temperature: Not relevant * Melting point/freezing point: Not relevant *

Flammability:

Flash Point:

Flammability (solid, gas):

Autoignition temperature:

Lower flammability limit:

Upper flammability limit:

Not relevant *

Not relevant *

Explosive (Solid):

Lower explosive limit:

Upper explosive limit:

Not relevant *

Not relevant *

Particle characteristics:

Median equivalent diameter: Not relevant *

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties:

Oxidising properties:

Not relevant *

Corrosive to metals:

Heat of combustion:

Aerosols-total percentage (by mass) of flammable components:

Not relevant *

Other safety characteristics:

Surface tension at 20 °C:

Refraction index:

Not relevant *

Not relevant *

Not relevant *

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Not applicable	Precaution	Avoid alkalis or strong bases

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SECTION 10: STABILITY AND REACTIVITY (continued)

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

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

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

- A- Ingestion (acute effect):
 - Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.
- B- Inhalation (acute effect):
 - Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for skin contact. For more information see section 3.
 - Contact with the eyes: Produces eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
 - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
 - IARC: Talc (3)
 - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
 - Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- E- Sensitizing effects:
 - Respiratory: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with sensitising effects. For more information see section 3.
 - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- F- Specific target organ toxicity (STOT) single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.

- G- Specific target organ toxicity (STOT)-repeated exposure:
 - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
 - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Not relevant



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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Specific toxicology information on the substances:

Identification	Acu	Acute toxicity	
sodium carbonate	LD50 oral	2800 mg/kg	Rat
CAS: 497-19-8 EC: 207-838-8	LD50 dermal		
	LC50 inhalation		
Disodium carbonate, compound with hydrogen peroxide (2:3) CAS: 15630-89-4 EC: 239-707-6	LD50 oral	1034 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation		
Alcohols, C13-15-branched and linear, butoxylated ethoxylated CAS: 111905-53-4 EC: Not relevant	LD50 oral	500 mg/kg	
	LD50 dermal		
	LC50 inhalation		
Disodium disilicate	LD50 oral	2507 mg/kg	Rat
CAS: 13870-28-5 EC: 237-623-4	LD50 dermal		
	LC50 inhalation		

11.2 Information on other hazards:

Endocrine disrupting properties

Endocrine-disrupting properties: The product does not meet the criteria.

Other information

Not relevant

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

12.1 Toxicity:

Acute toxicity:

Identification	Concentration		Species	Genus
sodium carbonate	LC50	740 mg/L (96 h)	Gambussia afinis	Fish
CAS: 497-19-8	EC50	265 mg/L (48 h)	Daphnia magna	Crustacean
EC: 207-838-8	EC50	Not relevant		
Disodium disilicate	LC50	Not relevant		
CAS: 13870-28-5	EC50	Not relevant		
EC: 237-623-4	EC50	179 mg/L (72 h)	Scenedesmus subspicatus	Algae
Alcohols, C13-15-branched and linear, butoxylated ethoxylated	LC50	>10 - 100 mg/L (96 h)		Fish
CAS: 111905-53-4	EC50	>10 - 100 mg/L (48 h)		Crustacean
EC: Not relevant	EC50	>10 - 100 mg/L (72 h)		Algae
Subtilisin	LC50	>0.1 - 1 mg/L (96 h)		Fish
CAS: 9014-01-1	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
EC: 232-752-2	EC50	>0.1 - 1 mg/L (72 h)		Algae

12.2 Persistence and degradability:

Not relevant

12.3 Bioaccumulative potential:

Not relevant

12.4 Mobility in soil:

Not relevant

12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product does not meet the criteria.



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SECTION 12: ECOLOGICAL INFORMATION (continued)

12.7 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

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

HP4 Irritant — skin irritation and eye damage

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023:

14.1 UN number or ID number: Not relevant 14.2 UN proper shipping name: Not relevant 14.3 Transport hazard class(es): Not relevant Labels: Not relevant 14.4 Packing group: Not relevant 14.5 Environmental hazards: Nο

14.6 Special precautions for user

Special regulations: Not relevant Tunnel restriction code: Not relevant Physico-Chemical properties: see section 9 Limited quantities: Not relevant 14.7 Maritime transport in bulk Not relevant

according to IMO

instruments:

Transport of dangerous goods by sea:

With regard to IMDG 41-22:

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SECTION 14: TRANSPORT INFORMATION (continued)

14.1 UN number or ID number: Not relevant 14.2 UN proper shipping name: Not relevant 14.3 Transport hazard class(es): Not relevant Lahels: Not relevant 14.4 Packing group: Not relevant No

14.5 Marine pollutant:

14.6 Special precautions for user

Special regulations: Not relevant

EmS Codes:

Physico-Chemical properties: see section 9 Limited quantities: Not relevant Segregation group: Not relevant

14.7 Maritime transport in bulk according to IMO instruments:

Not relevant

Transport of dangerous goods by air:

With regard to IATA/ICAO 2024:

14.1 UN number or ID number: Not relevant 14.2 UN proper shipping name: Not relevant 14.3 Transport hazard class(es): Not relevant Labels: Not relevant 14.4 Packing group: Not relevant No

14.5 Environmental hazards:

14.6 Special precautions for user

Physico-Chemical properties: see section 9 14.7 Maritime transport in bulk Not relevant

according to IMO instruments:

SECTION 15: REGULATORY INFORMATION

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

- Article 95, REGULATION (EU) No 528/2012: Not relevant
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- Regulation (EU) 2019/1021 on persistent organic pollutants: Not relevant
- Regulation (EU) No 2024/590, about substances that deplete the ozone layer: Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

Regulation (EC) No 648/2004 on detergents:

In accordance with this regulation the product complies with the following:

The tensoactives contained in this mixture comply with the biodegradibility criteria stipulated in Regulation (EC) nº648/2004 on detergents. The information to prove this is available to the relevant authorities of the Member States and will be shown to them by direct request or the request of a detergent manufacturer.

Seveso III:

Not relevant

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):

Not relevant

Specific provisions in terms of protecting people or the environment:



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SECTION 15: REGULATORY INFORMATION (continued)

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

- Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products
- Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 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 Annexes III and VII
- 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, in order to adapt Annexes V and VI thereto (surfactant derogation)

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

Not relevant

Texts of the legislative phrases mentioned in section 2:

H319: Causes serious eye irritation.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:

Acute Tox. 4: H302 - Harmful if swallowed.

Aquatic Acute 1: H400 - Very toxic to aquatic life.

Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Eye Dam. 1: H318 - Causes serious eye damage.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Ox. Sol. 3: H272 - May intensify fire, oxidiser.

Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Irrit. 2: H315 - Causes skin irritation.

STOT SE 3: H335 - May cause respiratory irritation.

Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

http://echa.europa.eu

http://eur-lex.europa.eu

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road

 $IMDG: International \ maritime \ dangerous \ goods \ code$

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50

EC50: Effective concentration 50

LogPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

IARC: International Agency for Research on Cancer

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The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET
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