

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

Ludwik - cream cleaner for ceramic stove tops

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

1.1 Product identifier: Ludwik - cream cleaner for ceramic stove tops

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.

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

Supplementary information:

EUH208: Contains 1,2-benzisothiazol-3(2H)-one, d-limonene. 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:

Non-applicable

3.2 Mixture:

Chemical description: Mixture composed of chemical products

Components:

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^{**} Changes with regards to the previous version



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

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

		-				
	Identification		Chemical name/Classification		Concentration	
	68131-39-5	Alcohols C12-15 etho	hoxylated 5-12 EO(1) Self-classified			
EC: Index: REACH:	Non-applicable Non-applicable Non-applicable	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Chronic 3: H412; Eye Dam. 1: H318 - Danger	<u>(1)</u>	1 - <3 %	
CAS: 5989-27-5		d-limonene(1)		Self-classified		
EC: 227-813-5 Index: 601-096-00-2 REACH: 01-2119529223-47- XXXX	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 3: H412; Asp. Tox. 1: H304; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger	(3)	0,1 - <1 %		
CAS: 2634-33-5		1,2-benzisothiazol-3(2H)-one ⁽¹⁾	ATP CLP00		
EC: Index: REACH:	220-120-9 613-088-00-6 01-2120761540-60- XXXX	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Acute 1: H400; Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger	(!) (%)	<0,036 %	

⁽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
1,2-benzisothiazol-3(2H)-one CAS: 2634-33-5 EC: 220-120-9	% (w/w) >=0,05: Skin Sens. 1 - H317

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

Identification	Acute toxicity		Genus
Alcohols C12-15 ethoxylated 5-12 EO	LD50 oral	2000 mg/kg	Rat
CAS: 68131-39-5	LD50 dermal	Not relevant	
EC: Non-applicable	LC50 inhalation	Not relevant	
1,2-benzisothiazol-3(2H)-one	LD50 oral	500 mg/kg	Rat
CAS: 2634-33-5	LD50 dermal	Not relevant	
EC: 220-120-9	LC50 inhalation	Not relevant	

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 does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or 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.

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:



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SECTION 4: FIRST AID MEASURES (continued)

Not relevant

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

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 (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

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:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

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:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

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



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SECTION 7: HANDLING AND STORAGE (continued)

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Consult section 10 for conditions and materials that should be avoided.

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

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

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):

There are no applicable occupational exposure limits for the substances contained in the product

DNEL (Workers):

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Alcohols C12-15 ethoxylated 5-12 EO	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 68131-39-5	Dermal	Not relevant	Not relevant	2080 mg/kg	Not relevant
EC: Non-applicable	Inhalation	Not relevant	Not relevant	294 mg/m ³	Not relevant
d-limonene	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 5989-27-5	Dermal	Not relevant	Not relevant	9,5 mg/kg	Not relevant
EC: 227-813-5	Inhalation	Not relevant	Not relevant	66,7 mg/m ³	Not relevant
1,2-benzisothiazol-3(2H)-one	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 2634-33-5	Dermal	Not relevant	Not relevant	0,966 mg/kg	Not relevant
EC: 220-120-9	Inhalation	Not relevant	Not relevant	6,81 mg/m ³	Not relevant

DNEL (General population):

		Short exposure		Long	exposure
Identification		Systemic	Local	Systemic	Local
Alcohols C12-15 ethoxylated 5-12 EO	Oral	Not relevant	Not relevant	25 mg/kg	Not relevant
CAS: 68131-39-5	Dermal	Not relevant	Not relevant	1250 mg/kg	Not relevant
EC: Non-applicable	Inhalation	Not relevant	Not relevant	87 mg/m ³	Not relevant
d-limonene	Oral	Not relevant	Not relevant	4,8 mg/kg	Not relevant
CAS: 5989-27-5	Dermal	Not relevant	Not relevant	4,8 mg/kg	Not relevant
EC: 227-813-5	Inhalation	Not relevant	Not relevant	16,6 mg/m ³	Not relevant
1,2-benzisothiazol-3(2H)-one	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 2634-33-5	Dermal	Not relevant	Not relevant	0,345 mg/kg	Not relevant
EC: 220-120-9	Inhalation	Not relevant	Not relevant	1,2 mg/m³	Not relevant

PNEC:



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
Alcohols C12-15 ethoxylated 5-12 EO	STP	10000 mg/L	Fresh water	0,051 mg/L
CAS: 68131-39-5	Soil	1 mg/kg	Marine water	0,005 mg/L
EC: Non-applicable	Intermittent	0,001 mg/L	Sediment (Fresh water)	81,64 mg/kg
	Oral	Not relevant	Sediment (Marine water)	8,16 mg/kg
d-limonene	STP	1,8 mg/L	Fresh water	0,014 mg/L
CAS: 5989-27-5	Soil	0,763 mg/kg	Marine water	0,0014 mg/L
EC: 227-813-5	Intermittent	Not relevant	Sediment (Fresh water)	3,85 mg/kg
	Oral	0,133 g/kg	Sediment (Marine water)	0,385 mg/kg
1,2-benzisothiazol-3(2H)-one	STP	1,03 mg/L	Fresh water	0,00403 mg/L
CAS: 2634-33-5	Soil	3 mg/kg	Marine water	0,000403 mg/L
EC: 220-120-9	Intermittent	0,0011 mg/L	Sediment (Fresh water)	0,0499 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,00499 mg/kg

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

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand protection	Protective gloves against minor risks	CATI		Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN ISO 21420:2020 and EN ISO 374-1:2016+A1:2018

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

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 20347:2012	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 20345:2012 y EN 13832-1:2007

F.- Additional emergency measures

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



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

Volatile organic compounds:

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

V.O.C. (Supply): 0,18 % weight
V.O.C. density at 20 °C: 2,4 kg/m³ (2,4 g/L)

Average carbon number: 10

Average molecular weight: 136,2 g/mol

SECT	TON 9: PHYSICAL AND CHEMICAL PROPERTIES	
9.1	Information on basic physical and chemical prope	rties:
	For complete information see the product datasheet.	
	Appearance:	
	Physical state at 20 °C:	Liquid
	Appearance:	Not available
	Colour:	White
	Odour:	Citric
	Odour threshold:	Not relevant *
	Volatility:	
	Boiling point at atmospheric pressure:	101 °C
	Vapour pressure at 20 °C:	2345 Pa
	Vapour pressure at 50 °C:	12356,27 Pa (12,36 kPa)
	Evaporation rate at 20 °C:	Not relevant *
	Product description:	
	Density at 20 °C:	1331,9 kg/m³
	Relative density at 20 °C:	1,332
	Dynamic viscosity at 20 °C:	Not relevant *
	Kinematic viscosity at 20 °C:	Not relevant *
	Kinematic viscosity at 40 °C:	Not relevant *
	Concentration:	Not relevant *
	pH:	8 - 9
	Vapour density at 20 °C:	Not relevant *
	Partition coefficient n-octanol/water 20 °C:	Not relevant *
	Solubility in water at 20 °C:	Not relevant *
	Solubility properties:	Dispersible
	Decomposition temperature:	Not relevant *
	Melting point/freezing point:	Not relevant *
	Flammability:	
	Flash Point:	Non Flammable (>60 °C)
	Flammability (solid, gas):	Not relevant *
	Autoignition temperature:	189 °C
	Lower flammability limit:	Not relevant *
		Not relevant *
	Particle characteristics:	
	Upper flammability limit: Particle characteristics: *Not relevant, due to the nature of the product, not providing information.	Not relevant *

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Median equivalent diameter: Non-applicable

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 *

Not relevant *

Other safety characteristics:

Surface tension at 20 °C:

Refraction index:

Not relevant *

Not relevant *

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

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	Precaution	Precaution	Not applicable	1

10.5 Incompatible materials:

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

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):



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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- 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, as it does not contain substances classified as hazardous for this effect. 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: d-limonene (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, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: 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.
- F- Specific target organ toxicity (STOT) single 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.

- 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. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Not relevant

Specific toxicology information on the substances:

Identification	Acut	te toxicity	Genus
Alcohols C12-15 ethoxylated 5-12 EO	LD50 oral	2000 mg/kg	Rat
CAS: 68131-39-5	LD50 dermal		
EC: Non-applicable	LC50 inhalation		
d-limonene	LD50 oral	4400 mg/kg	Rat
CAS: 5989-27-5	LD50 dermal	>5000 mg/kg	Rabbit
EC: 227-813-5	LC50 inhalation		
1,2-benzisothiazol-3(2H)-one	LD50 oral	500 mg/kg	Rat
CAS: 2634-33-5	LD50 dermal		
EC: 220-120-9	LC50 inhalation		

Acute Toxicity Estimate (ATE mix):

ATE mix		Ingredient(s) of unknown toxicity
Oral	56818,67 mg/kg (Calculation method)	36,08 %
Dermal	>2000 mg/kg (Calculation method)	Non-applicable
Inhalation	>20 mg/L (4 h) (Calculation method)	Non-applicable

11.2 Information on other hazards:

Endocrine disrupting properties

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



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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

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
Alcohols C12-15 ethoxylated 5-12 EO	LC50	>10 - 100 mg/L (96 h)		Fish
CAS: 68131-39-5	EC50	>10 - 100 mg/L (48 h)		Crustacean
EC: Non-applicable	EC50	>10 - 100 mg/L (72 h)		Algae
d-limonene	LC50	0,702 mg/L (96 h)	Pimephales promelas	Fish
CAS: 5989-27-5	EC50	0,577 mg/L (48 h)	Daphnia magna	Crustacean
EC: 227-813-5	EC50	Not relevant		
1,2-benzisothiazol-3(2H)-one	LC50	>0.1 - 1 mg/L (96 h)		Fish
CAS: 2634-33-5	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
EC: 220-120-9	EC50	>0.1 - 1 mg/L (72 h)		Algae

Chronic toxicity:

Identification		Concentration	Species	Genus
Alcohols C12-15 ethoxylated 5-12 EO	NOEC	0,16 mg/L	Lepomis macrochirus	Fish
CAS: 68131-39-5 EC: Non-applicable	NOEC	0,77 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability		Biodegradability	
d-limonene	BOD5	Not relevant	Concentration	10 mg/L
CAS: 5989-27-5	COD	Not relevant	Period	28 days
EC: 227-813-5	BOD5/COD	Not relevant	% Biodegradable	71,4 %
1,2-benzisothiazol-3(2H)-one	BOD5	Not relevant	Concentration	100 mg/L
CAS: 2634-33-5	COD	Not relevant	Period	28 days
EC: 220-120-9	BOD5/COD	Not relevant	% Biodegradable	0 %

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccumulation potential		
d-limonene	BCF	660	
CAS: 5989-27-5	Pow Log	4.83	
EC: 227-813-5	Potential	High	
1,2-benzisothiazol-3(2H)-one	BCF	2	
CAS: 2634-33-5	Pow Log	1.45	
EC: 220-120-9	Potential	Low	

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
d-limonene	Koc	6324	Henry	Not relevant
CAS: 5989-27-5	Conclusion	Immobile	Dry soil	Not relevant
EC: 227-813-5	Surface tension	2,675E-2 N/m (25 °C)	Moist 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:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
20 01 30	detergents other than those mentioned in 20 01 29	Non-hazardous

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

Not relevant

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: No
 14.6 Special precautions for user

Special regulations:

Tunnel restriction code:

Physico-Chemical properties:

Limited quantities:

Not relevant

Not relevant

Not relevant

Not relevant

Not relevant

Id-7

Maritime transport in bulk
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 Nο

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:

- Regulation (EC) No 528/2012: contains a preservative to protect the initial properties of the treated article. Contains 1,2benzisothiazol-3(2H)-one.
- Article 95, REGULATION (EU) No 528/2012: 1,2-benzisothiazol-3(2H)-one (2634-33-5) PT: (2,6,9,11,12,13)
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- Regulation (EC) No 1005/2009, 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):



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SECTION 15: REGULATORY INFORMATION (continued)

Shall not be used in:

- —ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- —tricks and jokes,
- —games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Specific provisions in terms of protecting people or the environment:

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.:

CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):

· Precautionary statements

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

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.

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

Flam. Liq. 3: H226 - Flammable liquid and vapour.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

Classification procedure:

Eye Irrit. 2: Calculation method

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:

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SECTION 16: OTHER INFORMATION (continued)

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

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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