

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:

Non-applicable

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:

 $\label{eq:Classification of this product has been carried out in accordance with CLP Regulation (EC) No \ 1272/2008.$

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

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:





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 fails to meet PBT/vPvB criteria Endocrine-disrupting properties: The product fails to meet the criteria.

** Changes with regards to the previous version

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS **

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Mixture composed of chemical products **Components:**

** Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -



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		
CAS:	68131-39-5	Alcohols C12-15 ethoxylated 5-12 EO ⁽¹⁾ Self-classified			
EC: Index: REACH:	Non-applicable Non-applicable I: Non-applicable	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Chronic 3: H412; Eye Dam. 1: H318 - Danger	1 - <3 %	
EC: 227-8 Index: 601-0 REACH: 01-21	5989-27-5	d-limonene ⁽¹⁾	Self-classified		
	227-813-5 601-096-00-2 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	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	<0,05 %	

⁽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

** Changes with regards to the previous version

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:

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:



SECTION 5: FIREFIGHTING MEASURES (continued)

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:

Avoid spillage into the aquatic environment as it contains substances potentially dangerous for this. Contain the product absorbed in hermetically sealed containers. In the case of serious spillage into the aquatic environment notify the relevant authority.

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 destroy using safe methods (section 6).

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

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

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SECTION 7: HANDLING AND STORAGE (continued)

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	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 68131-39-5	Dermal	Non-applicable	Non-applicable	2080 mg/kg	Non-applicable
EC: Non-applicable	Inhalation	Non-applicable	Non-applicable	294 mg/m ³	Non-applicable
d-limonene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 5989-27-5	Dermal	Non-applicable	Non-applicable	9,5 mg/kg	Non-applicable
EC: 227-813-5	Inhalation	Non-applicable	Non-applicable	66,7 mg/m ³	Non-applicable
1,2-benzisothiazol-3(2H)-one	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 2634-33-5	Dermal	Non-applicable	Non-applicable	0,966 mg/kg	Non-applicable
EC: 220-120-9	Inhalation	Non-applicable	Non-applicable	6,81 mg/m ³	Non-applicable

DNEL (General population):

		Short	Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local	
Alcohols C12-15 ethoxylated 5-12 EO	Oral	Non-applicable	Non-applicable	25 mg/kg	Non-applicable	
CAS: 68131-39-5	Dermal	Non-applicable	Non-applicable	1250 mg/kg	Non-applicable	
EC: Non-applicable	Inhalation	Non-applicable	Non-applicable	87 mg/m ³	Non-applicable	
d-limonene	Oral	Non-applicable	Non-applicable	4,8 mg/kg	Non-applicable	
CAS: 5989-27-5	Dermal	Non-applicable	Non-applicable	4,8 mg/kg	Non-applicable	
EC: 227-813-5	Inhalation	Non-applicable	Non-applicable	16,6 mg/m ³	Non-applicable	
1,2-benzisothiazol-3(2H)-one	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
CAS: 2634-33-5	Dermal	Non-applicable	Non-applicable	0,345 mg/kg	Non-applicable	
EC: 220-120-9	Inhalation	Non-applicable	Non-applicable	1,2 mg/m ³	Non-applicable	
PNEC:						
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	n water)	81,64 mg/kg	
	Oral	Non-applicable	Sediment (Marin	ne 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	Non-applicable	Sediment (Fresh	n water)	3,85 mg/kg	
	Oral	0,133 g/kg	Sediment (Marin	ne water)	0,385 mg/kg	

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
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	Non-applicable	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	cat i		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 420:2004+A1:2010 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.		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		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

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



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)				
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			

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:	Liquid				
	Appearance:	Not available				
	Colour:	White				
	Odour:	Citric				
	Odour threshold:	Non-applicable *				
	Volatility:					
	Boiling point at atmospheric pressure:	101 °C				
	Vapour pressure at 20 ºC:	2345 Pa				
	Vapour pressure at 50 °C:	12356,27 Pa (12,36 kPa)				
	Evaporation rate at 20 °C:	Non-applicable *				
	Product description:					
	Density at 20 °C:	1331,9 kg/m³				
	Relative density at 20 °C:	1,332				
	Dynamic viscosity at 20 °C:	Non-applicable *				
	Kinematic viscosity at 20 °C:	Non-applicable *				
	Kinematic viscosity at 40 °C:	Non-applicable *				
	Concentration:	Non-applicable *				
	pH:	8 - 9				
	Vapour density at 20 °C:	Non-applicable *				
	Partition coefficient n-octanol/water 20 °C:	Non-applicable *				
	Solubility in water at 20 °C:	Non-applicable *				
	Solubility properties:	Dispersible				
	Decomposition temperature:	Non-applicable *				
	Melting point/freezing point:	Non-applicable *				
	Flammability:					
	Flash Point:	Non Flammable (>60 °C)				
	Flammability (solid, gas):	Non-applicable *				
	Autoignition temperature:	189 °C				
	Lower flammability limit:	Non-applicable *				
	Upper flammability limit:	Non-applicable *				
	Particle characteristics:					
	Median equivalent diameter:	Non-applicable				
9.2	Other information:					
	Information with regard to physical hazard o	classes:				
	Explosive properties:	Non-applicable *				
	Oxidising properties:	Non-applicable *				
	*Not relevant due to the nature of the product, not providing	*Not relevant due to the nature of the product, not providing information property of its hazards.				



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)				
Corrosive to metals:	Non-applicable *			
Heat of combustion:	Non-applicable *			
Aerosols-total percentage (by mass) of flammable components:	Non-applicable *			
Other safety characteristics:				
Surface tension at 20 °C:	Non-applicable *			
Refraction index:	Non-applicable *			
*Not relevant due to the nature of the product, not providing infor	*Not relevant due to the nature of the product, not providing information property of its hazards.			

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

10.5

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

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
5 1	Incompatible materials:				
5]	Incompatible materials: Acids	Water	Oxidising materials	Combustible materials	Others

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, 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.

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



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 11: TOXICOLOGICAL INFORMATION ** (continued)

- 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:

Non-applicable

Specific toxicology information on the substances:

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

11.2 Information on other hazards:

Endocrine disrupting properties

Endocrine-disrupting properties: The product fails to meet the criteria.

Other information

Non-applicable

** Changes with regards to the previous version

SECTION 12: ECOLOGICAL INFORMATION **

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

12.1 Toxicity:

Acute toxicity:

** Changes with regards to the previous version

Version: 6 (Replaced 5)



	TON 12: ECOLOGICAL INFORMATION	** (continue	ea)					
	Identification			Concentration		Spe	ecies	Genus
	Alcohols C12-15 ethoxylated 5-12 EO	L	.C50	>10 - 100 mg/L (96 l	1)			Fish
	CAS: 68131-39-5	E	EC50	>10 - 100 mg/L (48 h	ו)			Crustacean
	EC: Non-applicable	E	EC50	>10 - 100 mg/L (72 h	1)			Algae
	d-limonene	L	_C50	0,702 mg/L (96 h)		Pimephale	es promelas	Fish
	CAS: 5989-27-5	E	EC50	0,577 mg/L (48 h)		Daphni	ia magna	Crustacean
	EC: 227-813-5	E	EC50	Non-applicable				
	1,2-benzisothiazol-3(2H)-one	L	.C50	>0.1 - 1 mg/L (96 h)				Fish
	CAS: 2634-33-5	E	C50	>0.1 - 1 mg/L (48 h)				Crustacean
	EC: 220-120-9	E	EC50	>0.1 - 1 mg/L (72 h)				Algae
	Chronic toxicity:			1				
	- Identification			Concentration		Spe	ecies	Genus
	Alcohols C12-15 ethoxylated 5-12 EO	N	NOEC				nacrochirus	Fish
	CAS: 68131-39-5 EC: Non-applicable		NOEC	0,77 mg/L		· ·	ia magna	Crustacean
	Persistence and degradability:		IOLC	6,7,7 mg/2		Dapini		crustaceun
.2.2	÷ ,							
	Substance-specific information:							
	Identification		Dep	gradability		Bi	iodegradability	
	d-limonene	BOD5		Non-applicable	Co	ncentration	10 m	g/L
	CAS: 5989-27-5	COD		Non-applicable	Per	riod	28 da	iys
	EC: 227-813-5	BOD5/C	OD	Non-applicable	%	Biodegradable	71,4	%
	1,2-benzisothiazol-3(2H)-one	BOD5		Non-applicable	Co	ncentration	100 r	ng/L
	CAS: 2634-33-5	COD		Non-applicable	Per	riod	28 da	iys
	EC: 220-120-9	BOD5/C	:OD	Non-applicable	%	Biodegradable	0 %	
12.3	Bioaccumulative potential:							
	Substance-specific information:							
	•	ication				Bioac	cumulation poten	tial
	d-limonene					BCF		
	CAS: 5989-27-5						660 4.83	
	CAS: 5989-27-5 EC: 227-813-5					Pow Log Potential	High	
					_			
	1,2-benzisothiazol-3(2H)-one CAS: 2634-33-5			BCF Pow Log			2	
	CAS: 2034-33-5 EC: 220-120-9			Pow Log Potential		-		
						Potential	Low	
LZ.4								
12.4	Mobility in soil: Identification		Abso	orption/desorption			Volatility	
12.4	•	Кос	Abso	orption/desorption 6324		Henry		applicable
12.4	Identification d-limonene CAS: 5989-27-5	Koc Conclus		6324 Immobile		Henry Dry soil	Non-a	applicable
12.4	d-limonene	Conclus		6324	<u>'</u> 5 °C)		Non-a	
	Identification d-limonene CAS: 5989-27-5 EC: 227-813-5	Conclus	ion	6324 Immobile	!5 °C)	Dry soil	Non-a	applicable
	Identification d-limonene CAS: 5989-27-5 EC: 227-813-5	Conclus	ion	6324 Immobile	!5 °C)	Dry soil	Non-a	applicable
12.5	Identification d-limonene CAS: 5989-27-5 EC: 227-813-5 Results of PBT and vPvB assessment: Product fails to meet PBT/vPvB criteria	Conclus	ion	6324 Immobile	!5 °C)	Dry soil	Non-a	applicable
12.5	Identification d-limonene CAS: 5989-27-5 EC: 227-813-5 Results of PBT and vPvB assessment: Product fails to meet PBT/vPvB criteria Endocrine disrupting properties:	Conclus Surface	ion tension	6324 Immobile 2,675E-2 N/m(2	25 °C)	Dry soil	Non-a	applicable
12.5 12.6	Identification d-limonene CAS: 5989-27-5 EC: 227-813-5 Results of PBT and vPvB assessment: Product fails to meet PBT/vPvB criteria Endocrine disrupting properties: Endocrine-disrupting properties: The product	Conclus Surface	ion tension	6324 Immobile 2,675E-2 N/m(2	25 °C)	Dry soil	Non-a	applicable
12.5 12.6	Identification d-limonene CAS: 5989-27-5 EC: 227-813-5 Results of PBT and vPvB assessment: Product fails to meet PBT/vPvB criteria Endocrine disrupting properties: Endocrine-disrupting properties: The product	Conclus Surface	ion tension	6324 Immobile 2,675E-2 N/m(2	25 °C)	Dry soil	Non-a	applicable
12.5 12.6	Identification d-limonene CAS: 5989-27-5 EC: 227-813-5 Results of PBT and vPvB assessment: Product fails to meet PBT/vPvB criteria Endocrine disrupting properties: Endocrine-disrupting properties: The product	Conclus Surface	ion tension	6324 Immobile 2,675E-2 N/m(2	25 °C)	Dry soil	Non-a	applicable
12.5 12.6 12.7	Identification d-limonene CAS: 5989-27-5 EC: 227-813-5 Results of PBT and vPvB assessment: Product fails to meet PBT/vPvB criteria Endocrine disrupting properties: Endocrine-disrupting properties: The product Other adverse effects:	Conclus Surface	ion tension	6324 Immobile 2,675E-2 N/m(2	25 °C)	Dry soil	Non-a	applicable
12.5 12.6 12.7 Chang	Identification d-limonene CAS: 5989-27-5 EC: 227-813-5 Results of PBT and vPvB assessment: Product fails to meet PBT/vPvB criteria Endocrine disrupting properties: Endocrine-disrupting properties: The product Other adverse effects: Not described Siges with regards to the previous version	Conclus Surface	ion tension	6324 Immobile 2,675E-2 N/m(2	25 °C)	Dry soil	Non-a	applicable
12.5 12.6 12.7 <i>Chan</i> g	Identification d-limonene CAS: 5989-27-5 EC: 227-813-5 Results of PBT and vPvB assessment: Product fails to meet PBT/vPvB criteria Endocrine disrupting properties: Endocrine-disrupting properties: The production Other adverse effects: Not described Topes with regards to the previous version TON 13: DISPOSAL CONSIDERATIONS	Conclus Surface	ion tension	6324 Immobile 2,675E-2 N/m(2	25 °C)	Dry soil	Non-a	applicable
12.5 12.6 12.7 <i>Chan</i> g	Identification d-limonene CAS: 5989-27-5 EC: 227-813-5 Results of PBT and vPvB assessment: Product fails to meet PBT/vPvB criteria Endocrine disrupting properties: Endocrine-disrupting properties: The production Other adverse effects: Not described <i>Disposal considerations</i> ION 13: DISPOSAL CONSIDERATIONS Waste treatment methods:	Conclus Surface	ion tension the crit	6324 Immobile 2,675E-2 N/m(2	25 °C)	Dry soil Moist soil	Non-a Non-a	applicable
12.5 12.6 12.7 Chang	Identification d-limonene CAS: 5989-27-5 EC: 227-813-5 Results of PBT and vPvB assessment: Product fails to meet PBT/vPvB criteria Endocrine disrupting properties: Endocrine-disrupting properties: The production Other adverse effects: Not described Topes with regards to the previous version TON 13: DISPOSAL CONSIDERATIONS	Conclus Surface	ion tension the crit	6324 Immobile 2,675E-2 N/m(2	25 °C)	Dry soil Moist soil	Non-a Non-a Non-a Waste class (Reg	ulation (EU) No
12.5 12.6 12.7 <i>Chan</i> g	Identification d-limonene CAS: 5989-27-5 EC: 227-813-5 Results of PBT and vPvB assessment: Product fails to meet PBT/vPvB criteria Endocrine disrupting properties: Endocrine-disrupting properties: The production Other adverse effects: Not described <i>Disposal considerations</i> ION 13: DISPOSAL CONSIDERATIONS Waste treatment methods:	Conclus Surface	ion tension the crit	6324 Immobile 2,675E-2 N/m(2	25 °C)	Dry soil Moist soil	Non-a Non-a	ulation (EU) No 014)



SECTION 13: DISPOSAL CONSIDERATIONS (continued)

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

Non-applicable

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-dangerous 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 2021 and RID 2021:

14.1	UN number or ID number:	Non-applicable
14.2	· · · · · · · · ·	Non-applicable
14.3	Transport hazard class(es):	Non-applicable
	Labels:	Non-applicable
14.4		Non-applicable
14.5		No
14.6	Special precautions for user	
	Special regulations:	Non-applicable
	Tunnel restriction code:	Non-applicable
	Physico-Chemical properties:	see section 9
	Limited quantities:	Non-applicable
14.7	Maritime transport in bulk according to IMO	Non-applicable
	instruments:	
Transpor	t of dangerous goods by sea:	
With rega	rd to IMDG 40-20:	
14.1	UN number or ID number:	Non-applicable
14.2	UN proper shipping name:	Non-applicable
14.3	Transport hazard class(es):	Non-applicable
	Labels:	Non-applicable
14.4	Packing group:	Non-applicable
14.5	Marine pollutant:	No
14.6	Special precautions for user	
	Special regulations:	Non-applicable
	EmS Codes:	
	Physico-Chemical properties:	see section 9
	Limited quantities:	Non-applicable
	Segregation group:	Non-applicable
14.7	Maritime transport in bulk according to IMO	Non-applicable
	instruments:	
Transpor	t of dangerous goods by air:	
With rega	rd to IATA/ICAO 2022:	



SECTION 14: T	RANSPORT INFORMATION (c	continued)
14.1	UN number or ID number:	Non-applicable
14.2	UN proper shipping name:	Non-applicable
14.3	Transport hazard class(es):	Non-applicable
	Labels:	Non-applicable
14.4	Packing group:	Non-applicable
14.5	Environmental hazards:	No
14.6	Special precautions for user	
	Physico-Chemical properties:	see section 9
14.7	Maritime transport in bulk according to IMO instruments:	Non-applicable

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.

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: 1,2-benzisothiazol-3(2H)-one (Product-type 2, 6, 9, 11, 12, 13)

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

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:

Non-applicable

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

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



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 15: REGULATORY INFORMATION (continued)

- 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.:

COMMISSION REGULATION (EU) 2020/878 SECTION 2, SECTION 3, SECTION 11, SECTION 12

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:



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.