

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

#### Ludwik - dishwasher rinse aid lemon

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

**1.1 Product identifier:** Ludwik - dishwasher rinse aid lemon

Other means of identification:

Not relevant

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

Relevant uses (Consumer use): 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:

The product is not classified as hazardous according to CLP Regulation (EC) No 1272/2008.

#### 2.2 Label elements:

## CLP Regulation (EC) No 1272/2008:

## **Hazard statements:**

Not relevant

#### **Precautionary statements:**

P102: Keep out of reach of children.

## **Supplementary information:**

EUH208: Contains Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one. 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:

Identification	Chemical name/Classification		
CAS: 68439-51-0 EC: Not relevant Index: Not relevant REACH: Not relevant	, ,	oxylated propoxylated(1) Self-classified Aquatic Chronic 3: H412	8 - <10 %

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



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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

	Identification		Chemical name/Classification			
CAS:	5949-29-1					
EC: Index: REACH:	611-842-9 Not relevant Not relevant		<b>(</b> )	3 - <5 %		
CAS:	15763-76-5	Sodium p-cumenesul	phonate <sup>(1)</sup>	Self-classified		
EC: Index: REACH:	239-854-6 Not relevant 01-2119489411-37- XXXX	Regulation 1272/2008	Eye Irrit. 2: H319 - Warning	<b>!</b> >	<2,4 %	
CAS:	164524-02-1	potassium 4-isopropy	lbenzenesulphonate <sup>(1)</sup>	Self-classified		
EC: Index: REACH:	629-764-9 Not relevant 01-2119489427-24- XXXX	Regulation 1272/2008	Eye Irrit. 2: H319 - Warning	<b>!</b> >	<2,4 %	
CAS: EC:	55965-84-9 Not relevant	Reaction mass of 5-cl one (3:1) <sup>(1)</sup>	nloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-	ATP ATP13		
Index: REACH:	Not relevant Chr	Acute Tox. 2: H310+H330; Acute Tox. 3: H301; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Dam. 1: H318; Skin Corr. 1C: H314; Skin Sens. 1A: H317; EUH071 - Danger		<0,0015 %		

<sup>(1)</sup> 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		M-factor
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	Acute	100
CAS: 55965-84-9 EC: Not relevant	Chronic	100

Identification	Specific concentration limit
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) CAS: 55965-84-9 EC: Not relevant	% (w/w) >=0,6: Skin Corr. 1C - H314 0,06<= % (w/w) <0,6: Skin Irrit. 2 - H315 % (w/w) >=0,6: Eye Dam. 1 - H318 0,06<= % (w/w) <0,6: Eye Irrit. 2 - H319 % (w/w) >=0,0015: Skin Sens. 1A - 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 toxicit	Genus	
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	LD50 oral	64 mg/kg	Rat
CAS: 55965-84-9	LD50 dermal	87,12 mg/kg	Rabbit
EC: Not relevant	LC50 inhalation vapour	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 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.

## By eye contact:

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for 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.



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## SECTION 4: FIRST AID MEASURES (continued)

## 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:

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

#### Unsuitable extinguishing media:

Non-applicable

#### 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:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

#### 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:

Prevent the entrance of product in drains, sewers or watercourses. Absorb the spill using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. Collect the product in appropriate containers and manage it according to current legislation.

Spillages in water or sea:

Small spillages:

Contain spillage using barriers or similar equipment. Use suitable absorbents for collection and treat the waste in accordance with current regulations.

Large spillages:

If possible, contain spillage in open water using barriers or similar equipment. If this is not possible, try to control its spread and collect the product with suitable mechanical means. Always consult experts before using dispersants and make sure you have the necessary approvals if they are to be used. Treat the waste according to current regulations.

## 6.4 Reference to other sections:

See sections 8 and 13.



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## 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

Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on 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.- 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):

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

#### **DNEL (Workers):**

		Short	t exposure	Long	exposure
Identification		Systemic	Local	Systemic	Local
Sodium p-cumenesulphonate	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 15763-76-5	Dermal	Not relevant	Not relevant	136,25 mg/kg	Not relevant
EC: 239-854-6	Inhalation	Not relevant	Not relevant	26,9 mg/m <sup>3</sup>	Not relevant
potassium 4-isopropylbenzenesulphonate	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 164524-02-1	Dermal	Not relevant	Not relevant	136,25 mg/kg	Not relevant
EC: 629-764-9	Inhalation	Not relevant	Not relevant	26,9 mg/m <sup>3</sup>	Not relevant

## DNEL (General population):

		Short	Short exposure		exposure
Identification		Systemic	Local	Systemic	Local
Sodium p-cumenesulphonate	Oral	Not relevant	Not relevant	3,8 mg/kg	Not relevant
CAS: 15763-76-5	Dermal	Not relevant	Not relevant	68,1 mg/kg	Not relevant
EC: 239-854-6	Inhalation	Not relevant	Not relevant	6,6 mg/m <sup>3</sup>	Not relevant
potassium 4-isopropylbenzenesulphonate	Oral	Not relevant	Not relevant	3,8 mg/kg	Not relevant
CAS: 164524-02-1	Dermal	Not relevant	Not relevant	68,1 mg/kg	Not relevant
EC: 629-764-9	Inhalation	Not relevant	Not relevant	6,6 mg/m <sup>3</sup>	Not relevant

## PNEC:

Identification				
Citric acid monohydrate	STP	1000 mg/L	Fresh water	0,44 mg/L
CAS: 5949-29-1	Soil	33,1 mg/kg	Marine water	0,044 mg/L
EC: 611-842-9	Intermittent	Not relevant	Sediment (Fresh water)	34,6 mg/kg
	Oral	Not relevant	Sediment (Marine water)	3,46 mg/kg

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
Sodium p-cumenesulphonate	STP	100 mg/L	Fresh water	0,23 mg/L
CAS: 15763-76-5	Soil	0,037 mg/kg	Marine water	0,023 mg/L
EC: 239-854-6	Intermittent	2,3 mg/L	Sediment (Fresh water)	0,862 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,086 mg/kg
potassium 4-isopropylbenzenesulphonate	STP	100 mg/L	Fresh water	0,23 mg/L
CAS: 164524-02-1	Soil	0,037 mg/kg	Marine water	0,023 mg/L
EC: 629-764-9	Intermittent	2,3 mg/L	Sediment (Fresh water)	0,862 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,086 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

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	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 20347:2022	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



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# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

#### **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:

Colour:

Odourless

Odour threshold:

Liquid

Fluid

Colourless

Odourless

Not relevant \*

Volatility:

Boiling point at atmospheric pressure: 100 °C Vapour pressure at 20 °C: 2350 Pa

Vapour pressure at 50 °C: 12381,01 Pa (12,38 kPa)

Evaporation rate at 20 °C: Not relevant \*

**Product description:** 

Dynamic viscosity at 20 °C:

Density at 20 °C: 1042,5 kg/m<sup>3</sup>

Relative density at 20 °C: 1,042

Kinematic viscosity at 20 °C: Not relevant \* Kinematic viscosity at 40 °C: Not relevant \* Concentration: Not relevant \* pH: Not relevant \* 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: Not relevant \* Decomposition temperature: Not relevant \* Melting point/freezing point: Not relevant \*

Flammability:

Flash Point: Non Flammable (>60 °C)

Flammability (solid, gas):

Autoignition temperature:

Lower flammability limit:

Upper flammability limit:

Not relevant \*

Not relevant \*

Not relevant \*

**Particle characteristics:** 

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

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Not relevant \*



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# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

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 \*

Not relevant \*

Other safety characteristics:

Surface tension at 20 °C:

Refraction index:

Not relevant \*

Not relevant \*

\*Not relevant 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	Not applicable	Not applicable	Not applicable

## 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 (CO<sub>2</sub>), 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. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract
- 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: 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.
- 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: Not relevant
  - 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. 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

## Specific toxicology information on the substances:

Identification	Acute toxic	ity	Genus
Citric acid monohydrate	LD50 oral	3000 mg/kg	Rat
CAS: 5949-29-1	LD50 dermal	>5000 mg/kg	Rat
EC: 611-842-9	LC50 inhalation		
Sodium p-cumenesulphonate	LD50 oral	7000 mg/kg	Rat
CAS: 15763-76-5	LD50 dermal		
EC: 239-854-6	LC50 inhalation		
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	LD50 oral	64 mg/kg	Rat
CAS: 55965-84-9	LD50 dermal	87,12 mg/kg	Rabbit
EC: Not relevant	LC50 inhalation		

## **Acute Toxicity Estimate (ATE mix):**

ATE mix			
Oral	55750 mg/kg (Calculation method)		
Dermal	>2000 mg/kg (Calculation method)		
LC50 inhalation vapour	>20 mg/L (4 h) (Calculation method)		

#### 11.2 Information on other hazards:



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# SECTION 11: TOXICOLOGICAL INFORMATION (continued)

## **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
Alcohols, C12-14, ethoxylated propoxylated	LC50	>10 - 100 mg/L (96 h)		Fish
CAS: 68439-51-0	EC50	>10 - 100 mg/L (48 h)		Crustacean
EC: Not relevant	EC50	>10 - 100 mg/L (72 h)		Algae
Sodium p-cumenesulphonate	LC50	1580 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 15763-76-5	EC50	1020 mg/L (48 h)	Daphnia magna	Crustacean
EC: 239-854-6	EC50	230 mg/L (96 h)	Selenastrum capricornutum	Algae
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	LC50	>0.001 - 0.01 mg/L (96 h)		Fish
CAS: 55965-84-9	EC50	>0.001 - 0.01 mg/L (48 h)		Crustacean
EC: Not relevant	EC50	>0.001 - 0.01 mg/L (72 h)		Algae

## **Chronic toxicity:**

Identification	Concentration		Species	Genus
Sodium p-cumenesulphonate	NOEC	Not relevant		
CAS: 15763-76-5 EC: 239-854-6	NOEC	30 mg/L	Daphnia magna	Crustacean
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	NOEC	>0.001 - 0.01 mg/L		Fish
CAS: 55965-84-9 EC: Not relevant	NOEC	>0.001 - 0.01 mg/L		Crustacean

# 12.2 Persistence and degradability:

## **Substance-specific information:**

Identification	Degradability		Biodegradability	
Citric acid monohydrate	BOD5	Not relevant	Concentration	Not relevant
CAS: 5949-29-1	COD	Not relevant	Period	5 days
EC: 611-842-9	BOD5/COD	Not relevant	% Biodegradable	72 %
Sodium p-cumenesulphonate	BOD5	Not relevant	Concentration	20 mg/L
CAS: 15763-76-5	COD	Not relevant	Period	28 days
EC: 239-854-6	BOD5/COD	Not relevant	% Biodegradable	100 %

#### 12.3 Bioaccumulative potential:

## **Substance-specific information:**

Identification	Bioaccumulation potential		
Citric acid monohydrate	BCF	3	
CAS: 5949-29-1	Pow Log	-1.64	
EC: 611-842-9	Potential	Low	

## 12.4 Mobility in soil:

Identification	Absorp	Absorption/desorption		Volatility
Citric acid monohydrate	Koc	3.1	Henry	4,3E-14 Pa·m³/mol
CAS: 5949-29-1	Conclusion	Very High	Dry soil	Not relevant
EC: 611-842-9	Surface tension	Not relevant	Moist soil	Not relevant

## 12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

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## SECTION 12: ECOLOGICAL INFORMATION (continued)

## 12.6 Endocrine disrupting properties:

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

#### 12.7 Other adverse effects:

Not described

## SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods:

## 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: 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

14.5 Marine pollutant: No

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 Not relevant

14.7 Maritime transport in bulk according to IMO instruments:

## 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 Lahels: Not relevant 14.4 Packing group: Not relevant 14.5 Environmental hazards: Nο

14.6 Special precautions for user

Physico-Chemical properties: see section 9 Maritime transport in bulk

according to IMO instruments:

Not relevant

## **SECTION 15: REGULATORY INFORMATION**

14.7

## 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 bronopol (INN), Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1).
- Article 95, REGULATION (EU) No 528/2012; Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9) - PT: (2,4,6,11,12,13); bronopol (INN) (52-51-7) - PT: (2,6,11,12,22)
- 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



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## SECTION 15: REGULATORY INFORMATION (continued)

# 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:

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 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. 2: H310+H330 - Fatal in contact with skin or if inhaled.

Acute Tox. 3: H301 - Toxic if swallowed.

Aguatic Acute 1: H400 - Very toxic to aguatic life.

Aquatic Chronic 1: H410 - Very 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.

Skin Corr. 1C: H314 - Causes severe skin burns and eye damage.

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

STOT SE 3: H335 - May cause respiratory irritation.

#### Classification procedure:

Not relevant

## 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.

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