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

1.1 Product identifier: THOMILMAGIC Nº5 Bathroom Cleaner

Other means of identification:

Non-applicable

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

Relevant uses: Anti-limescale bathroom cleaner. For professional users only.

DILUTION OF PRODUCT USE: 0.3 - 3.3%

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:

Thomil,S.A.
Ctra. de Andalucía Km.18 – Pol.Ind."Las Arenas"
28320 Pinto - Madrid - España
Phone: +34 916 910 263 - Fax: +34 916 911 345
profesional@thomil.com
www.thomil.com

1.4 Emergency telephone number: Company: +34 91 691 06 36 (Office hours)

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.

Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412
Eye Dam. 1: Serious eye damage, Category 1, H318
Skin Corr. 1: Skin corrosion, Category 1, H314

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Danger

Hazard statements:

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
Skin Corr. 1: H314 - Causes severe skin burns and eye damage.

Precautionary statements:

P280: Wear protective gloves/eye protection.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a poison center/doctor.
P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

Supplementary information:

EUH071: Corrosive to the respiratory tract.
EUH208: Contains d-limonene, Hexyl cinnam-aldehyde, Linalool, Metilciclomircetona. May produce an allergic reaction.

Substances that contribute to the classification

L-(+)-lactic acid; Fatty alcohol ethoxylated, 8 mol EO; Amines, C12-14 –alkyldimethyl , N-Oxides

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria
Endocrine-disrupting properties: The product fails to meet the criteria.
According to Regulation nº1272/2008 (CLP), the **product at the indicated use dilution** is not classified as dangerous

- CONTINUED ON NEXT PAGE -

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Aqueous mixture composed of acids and tensoactives

Components:

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

Identification	Chemical name/Classification		Concentration
CAS: 79-33-4 EC: 201-196-2 Index: 607-743-00-5 REACH: 01-2119474164-39-XXXX	**L-(+)-lactic acid**(1)	ATP ATP15	**24 - <75 %**
	Regulation 1272/2008	Eye Dam. 1: H318; Skin Corr. 1C: H314; EUH071 - Danger	
CAS: 5949-29-1 EC: 611-842-9 Index: Non-applicable REACH: 01-2119457026-42-XXXX	**Citric acid monohydrate**(1)	Self-classified	**19 - <24 %**
	Regulation 1272/2008	Eye Irrit. 2: H319 - Warning	
CAS: 160875-66-1 EC: 605-233-7 Index: Non-applicable REACH: Non-applicable	**Fatty alcohol ethoxylated, 8 mol EO**(1)	Self-classified	**4,9 - <9,9 %**
	Regulation 1272/2008	Acute Tox. 4: H302; Eye Dam. 1: H318 - Danger	
CAS: 308062-28-4 EC: 931-292-6 Index: Non-applicable REACH: 01-2119490061-47-XXXX	**Amines, C12-14 –alkyldimethyl , N-Oxides**(1)	Self-classified	**2,4 - <4,9 %**
	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger	
CAS: 5989-27-5 EC: 227-813-5 Index: 601-096-00-2 REACH: 01-2119529223-47-XXXX	**d-limonene**(1)	ATP ATP17	**0,1 - <0,24 %**
	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. 1B: H317 - Danger	
CAS: 78-70-6 EC: 201-134-4 Index: 603-235-00-2 REACH: 01-2119474016-42-XXXX	**Linalool**(1)	Self-classified	**0,1 - <0,24 %**
	Regulation 1272/2008	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	
CAS: 101-86-0 EC: 202-983-3 Index: Non-applicable REACH: Non-applicable	**Hexyl cinnam-aldehyde**(1)	Self-classified	**0,1 - <0,24 %**
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Skin Sens. 1B: H317 - Warning	
CAS: 1222-05-5 EC: 214-946-9 Index: 603-212-00-7 REACH: 01-2119488227-29-XXXX	**1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran**(1)	ATP ATP01	**0,1 - <0,24 %**
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning	
CAS: Non-applicable EC: 915-730-3 Index: Non-applicable REACH: Non-applicable	**Metilciclomircetona**(1)	Self-classified	**0,1 - <0,24 %**
	Regulation 1272/2008	Aquatic Chronic 2: H411; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	
CAS: 469-61-4 EC: 207-418-4 Index: Non-applicable REACH: Non-applicable	**Alfa cedreno**(1)	Self-classified	**<0,1 %**
	Regulation 1272/2008	Aquatic Chronic 1: H410; Asp. Tox. 1: H304 - Danger	

(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		M-factor	
Alfa cedreno		Acute	10
CAS: 469-61-4	EC: 207-418-4	Chronic	10

The mixture of **the product at the indicated use dilution** does not contain dangerous substances above the values set in Annex II of Regulation (CE) nº1907/2006

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

- CONTINUED ON NEXT PAGE -

SECTION 4: FIRST AID MEASURES (continued)

Request medical assistance immediately, 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:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

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:

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and also risk damage to the respiratory system through inhalation. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Keep the person affected at rest.

Description of first aid measures for the **product at the indicated use dilution:**

Consult a doctor in case of discomfort.
By inhalation: In case of symptoms, move the affected person to fresh air.
By contact with the skin: In case of contact, it is recommended to clean the affected area with water by dragging and with neutral soap. In case of skin alterations (stinging, redness, rashes, blisters...), seek medical advice.
By contact with the eyes: Rinse with water until the product is eliminated. In case of discomfort, see a doctor
By ingestion/aspiration: In case of ingestion of large amounts, it is recommended to seek medical assistance.

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:

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.

- CONTINUED ON NEXT PAGE -

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 at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

Other information:

The product at the indicated use dilution is not classified as dangerous for the environment.

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

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

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 5 ºC

Maximum Temp.: 40 ºC

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):

- CONTINUED ON NEXT PAGE -

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

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

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Amines, C12-14 –alkyldimethyl , N-Oxides	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 308062-28-4	Dermal	Non-applicable	Non-applicable	11 mg/kg	Non-applicable
EC: 931-292-6	Inhalation	Non-applicable	Non-applicable	6,2 mg/m³	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/m³	Non-applicable
Linalool	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 78-70-6	Dermal	Non-applicable	Non-applicable	3,5 mg/kg	Non-applicable
EC: 201-134-4	Inhalation	Non-applicable	Non-applicable	24,58 mg/m³	Non-applicable
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1222-05-5	Dermal	Non-applicable	Non-applicable	36,7 mg/kg	Non-applicable
EC: 214-946-9	Inhalation	Non-applicable	Non-applicable	13,5 mg/m³	Non-applicable
Metilciclomircetona	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: Non-applicable	Dermal	Non-applicable	Non-applicable	28,7 mg/kg	Non-applicable
EC: 915-730-3	Inhalation	Non-applicable	Non-applicable	30 mg/m³	Non-applicable

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Amines, C12-14 –alkyldimethyl , N-Oxides	Oral	Non-applicable	Non-applicable	0,44 mg/kg	Non-applicable
CAS: 308062-28-4	Dermal	Non-applicable	Non-applicable	5,5 mg/kg	Non-applicable
EC: 931-292-6	Inhalation	Non-applicable	Non-applicable	1,53 mg/m³	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/m³	Non-applicable
Linalool	Oral	Non-applicable	Non-applicable	2,49 mg/kg	Non-applicable
CAS: 78-70-6	Dermal	Non-applicable	Non-applicable	1,25 mg/kg	Non-applicable
EC: 201-134-4	Inhalation	Non-applicable	Non-applicable	4,33 mg/m³	Non-applicable
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	Oral	Non-applicable	Non-applicable	2,3 mg/kg	Non-applicable
CAS: 1222-05-5	Dermal	Non-applicable	Non-applicable	22 mg/kg	Non-applicable
EC: 214-946-9	Inhalation	Non-applicable	Non-applicable	4 mg/m³	Non-applicable
Metilciclomircetona	Oral	Non-applicable	Non-applicable	3 mg/kg	Non-applicable
CAS: Non-applicable	Dermal	Non-applicable	Non-applicable	17,2 mg/kg	Non-applicable
EC: 915-730-3	Inhalation	Non-applicable	Non-applicable	9 mg/m³	Non-applicable

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	Non-applicable	Sediment (Fresh water)	34,6 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	3,46 mg/kg
Amines, C12-14 –alkyldimethyl , N-Oxides	STP	24 mg/L	Fresh water	0,034 mg/L
CAS: 308062-28-4	Soil	1,02 mg/kg	Marine water	0,003 mg/L
EC: 931-292-6	Intermittent	0,034 mg/L	Sediment (Fresh water)	5,24 mg/kg
	Oral	0,0111 g/kg	Sediment (Marine water)	0,524 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 water)	3,85 mg/kg
	Oral	0,133 g/kg	Sediment (Marine water)	0,385 mg/kg

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
Linalool	STP	10 mg/L	Fresh water	0,2 mg/L
CAS: 78-70-6	Soil	0,327 mg/kg	Marine water	0,02 mg/L
EC: 201-134-4	Intermittent	2 mg/L	Sediment (Fresh water)	2,22 mg/kg
	Oral	0,0078 g/kg	Sediment (Marine water)	0,222 mg/kg
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	STP	1 mg/L	Fresh water	0,0068 mg/L
CAS: 1222-05-5	Soil	1,5 mg/kg	Marine water	0,00044 mg/L
EC: 214-946-9	Intermittent	Non-applicable	Sediment (Fresh water)	2 mg/kg
	Oral	20,4 g/kg	Sediment (Marine water)	0,394 mg/kg
Metilciclomircetona	STP	10 mg/L	Fresh water	0,0044 mg/L
CAS: Non-applicable	Soil	2,7 mg/kg	Marine water	0,00044 mg/L
EC: 915-730-3	Intermittent	Non-applicable	Sediment (Fresh water)	3,73 mg/kg
	Oral	0,0267 g/kg	Sediment (Marine water)	0,75 mg/kg

8.2 Exposure controls:

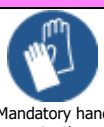
A.- Individual protection measures, such as personal protective equipment

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	CE 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.	CE CAT II	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	CE CAT I		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	CE CAT II	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

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

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

Recommended safety instructions for handling the **product at the indicated use dilution:**

Respiratory protection: Not relevant
Specific hand protection: Not relevant
Eye and face protection: Not relevant
Body protection:Not relevant
Additional emergency measures: It is not necessary to take additional emergency measures

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):	0,48 % weight
V.O.C. density at 20 ºC:	5,54 kg/m³ (5,54 g/L)
Average carbon number:	10
Average molecular weight:	146,76 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 ºC:	Liquid
Appearance:	Transparent
Colour:	Pink
Odour:	Scented
Odour threshold:	Non-applicable *

Physical-chemical properties of **the product at the indicated use dilution**:

Appearance: Liquid transparent Pink
pH: 2 – 3

Volatility:

Boiling point at atmospheric pressure:	102 ºC
Vapour pressure at 20 ºC:	2343 Pa
Vapour pressure at 50 ºC:	12345,89 Pa (12,35 kPa)
Evaporation rate at 20 ºC:	Non-applicable *

Product description:

Density at 20 ºC:	1148 - 1152 kg/m³
Relative density at 20 ºC:	1,148 - 1,152
Dynamic viscosity at 20 ºC:	Non-applicable *
Kinematic viscosity at 20 ºC:	Non-applicable *
Kinematic viscosity at 40 ºC:	Non-applicable *
Concentration:	Non-applicable *
pH:	<2
Vapour density at 20 ºC:	Non-applicable *
Partition coefficient n-octanol/water 20 ºC:	Non-applicable *

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

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Solubility in water at 20 ºC:	Non-applicable *
Solubility properties:	Highly water-soluble
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Flammability:	
Flash Point:	Non Flammable (>60 ºC)
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	235 ºC
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 classes:

Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *
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 ºC:	Non-applicable *
Refraction index:	Non-applicable *

*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.

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

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Not applicable	Not applicable	Precaution	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_2), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

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

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

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: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.

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: Corrosive to the respiratory tract

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

- Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
- Contact with the eyes: Produces serious 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: Eugenol (3); 7-methyl-3-methyleneocta-1,6-diene (2B); 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	Acute toxicity		Genus
L-(+)-lactic acid	LD50 oral	3750 mg/kg	Rat
CAS: 79-33-4	LD50 dermal	>2000 mg/kg	
EC: 201-196-2	LC50 inhalation	>5 mg/L	
Amines, C12-14 –alkyldimethyl , N-Oxides	LD50 oral	500 mg/kg (ATEi)	
CAS: 308062-28-4	LD50 dermal	>2000 mg/kg	
EC: 931-292-6	LC50 inhalation	>5 mg/L	

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Identification	Acute toxicity		Genus
Fatty alcohol ethoxylated, 8 mol EO	LD50 oral	500 mg/kg (ATEi)	
CAS: 160875-66-1	LD50 dermal	>2000 mg/kg	
EC: 605-233-7	LC50 inhalation	>20 mg/L	
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	>5 mg/L	
d-limonene	LD50 oral	4400 mg/kg	Rat
CAS: 5989-27-5	LD50 dermal	>5000 mg/kg	Rabbit
EC: 227-813-5	LC50 inhalation	>20 mg/L	
Linalool	LD50 oral	3000 mg/kg	Rat
CAS: 78-70-6	LD50 dermal	5610 mg/kg	Rabbit
EC: 201-134-4	LC50 inhalation	>20 mg/L	
Hexyl cinnam-aldehyde	LD50 oral	3100 mg/kg	Rat
CAS: 101-86-0	LD50 dermal	3000 mg/kg	Rabbit
EC: 202-983-3	LC50 inhalation	>20 mg/L	
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	LD50 oral	>2000 mg/kg	
CAS: 1222-05-5	LD50 dermal	>2000 mg/kg	
EC: 214-946-9	LC50 inhalation	>20 mg/L	
Metilciclomircetona	LD50 oral	>5000 mg/kg	Rat
CAS: Non-applicable	LD50 dermal	>5000 mg/kg	Rat
EC: 915-730-3	LC50 inhalation	>20 mg/L	
Alfa cedreno	LD50 oral	>2000 mg/kg	
CAS: 469-61-4	LD50 dermal	>2000 mg/kg	
EC: 207-418-4	LC50 inhalation	>20 mg/L	

Acute Toxicity Estimate (ATE mix):

ATE mix		Ingredient(s) of unknown toxicity
Oral	5376,34 mg/kg (Calculation method)	0 %
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 fails to meet the criteria.

Other information

Non-applicable

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:

Identification	Concentration		Species	Genus
L-(+)-lactic acid	LC50	320 mg/L (96 h)	Brachydanio rerio	Fish
CAS: 79-33-4	EC50	240 mg/L (48 h)	Daphnia magna	Crustacean
EC: 201-196-2	EC50	3,5 mg/L (70 h)	Selenastrum capricornutum	Algae
Citric acid monohydrate	LC50	1516 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: 5949-29-1	EC50	120 mg/L (48 h)	Daphnia magna	Crustacean
EC: 611-842-9	EC50	Non-applicable		
Amines, C12-14 –alkyldimethyl , N-Oxides	LC50	3,5 mg/L (96 h)	Pimephales promelas	Fish
CAS: 308062-28-4	EC50	10,4 mg/L (48 h)	Daphnia magna	Crustacean
EC: 931-292-6	EC50	0,3 mg/L (72 h)	Selenastrum capricornutum	Algae

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Concentration		Species	Genus
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	Non-applicable		
Hexyl cinnam-aldehyde	LC50	>0.1 - 1 mg/L (96 h)		Fish
CAS: 101-86-0	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
EC: 202-983-3	EC50	>0.1 - 1 mg/L (72 h)		Algae
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	LC50	0,95 mg/L (96 h)	Oryzias latipes	Fish
CAS: 1222-05-5	EC50	0,194 mg/L (48 h)	Daphnia magna	Crustacean
EC: 214-946-9	EC50	0,723 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Metilciclomircetona	LC50	1,3 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: Non-applicable	EC50	1,38 mg/L (48 h)	Daphnia magna	Crustacean
EC: 915-730-3	EC50	Non-applicable		
Alfa cedreno	LC50	>0.1 - 1 mg/L (96 h)		Fish
CAS: 469-61-4	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
EC: 207-418-4	EC50	>0.1 - 1 mg/L (72 h)		Algae

Chronic toxicity:

Identification	Concentration		Species	Genus
Amines, C12-14 –alkyldimethyl , N-Oxides	NOEC	0,495 mg/L	Pimephales promelas	Fish
CAS: 308062-28-4 EC: 931-292-6	NOEC	0,7 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability		Biodegradability	
Citric acid monohydrate	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 5949-29-1	COD	Non-applicable	Period	5 days
EC: 611-842-9	BOD5/COD	Non-applicable	% Biodegradable	72 %
Amines, C12-14 –alkyldimethyl , N-Oxides	BOD5	Non-applicable	Concentration	73 mg/L
CAS: 308062-28-4	COD	Non-applicable	Period	28 days
EC: 931-292-6	BOD5/COD	Non-applicable	% Biodegradable	90 %
d-limonene	BOD5	Non-applicable	Concentration	10 mg/L
CAS: 5989-27-5	COD	Non-applicable	Period	28 days
EC: 227-813-5	BOD5/COD	Non-applicable	% Biodegradable	71,4 %
Linalool	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 78-70-6	COD	Non-applicable	Period	28 days
EC: 201-134-4	BOD5/COD	Non-applicable	% Biodegradable	90 %
Metilciclomircetona	BOD5	Non-applicable	Concentration	56.4 mg/L
CAS: Non-applicable	COD	Non-applicable	Period	28 days
EC: 915-730-3	BOD5/COD	Non-applicable	% Biodegradable	96,3 %

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
d-limonene	BCF	
CAS: 5989-27-5	Pow Log	4.83
EC: 227-813-5	Potential	
Linalool	BCF	
CAS: 78-70-6	Pow Log	2.97
EC: 201-134-4	Potential	

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Bioaccumulation potential	
Hexyl cinnam-aldehyde	BCF	17
CAS: 101-86-0	Pow Log	
EC: 202-983-3	Potential	Low
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	BCF	1584
CAS: 1222-05-5	Pow Log	5.9
EC: 214-946-9	Potential	Very High
Metilciclomircetona	BCF	750
CAS: Non-applicable	Pow Log	5.65
EC: 915-730-3	Potential	High

12.4 Mobility in soil:

Identification	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	No
EC: 611-842-9	Surface tension	Non-applicable	Moist soil	No
Amines, C12-14 –alkyldimethyl , N-Oxides	Koc	307	Henry	4E-9 Pa·m³/mol
CAS: 308062-28-4	Conclusion	Very High	Dry soil	Non-applicable
EC: 931-292-6	Surface tension	Non-applicable	Moist soil	Non-applicable
d-limonene	Koc	6324	Henry	2533,13 Pa·m³/mol
CAS: 5989-27-5	Conclusion	Immobile	Dry soil	Yes
EC: 227-813-5	Surface tension	2,675E-2 N/m (25 ºC)	Moist soil	Yes
Metilciclomircetona	Koc	12589	Henry	Non-applicable
CAS: Non-applicable	Conclusion	Immobile	Dry soil	Non-applicable
EC: 915-730-3	Surface tension	Non-applicable	Moist soil	Non-applicable

12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

12.6 Endocrine disrupting properties:

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

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)
	It is not possible to assign a specific code, as it depends on the intended use by the user	Dangerous

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

HP8 Corrosive, HP14 Ecotoxic

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

*** Changes with regards to the previous version*

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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:**	UN3265
14.2	**UN proper shipping name:**	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (L-(+)-lactic acid)
14.3	**Transport hazard class(es):**	8
	Labels:	8
14.4	**Packing group:**	III
14.5	**Environmental hazards:**	No
14.6	**Special precautions for user**	
	Special regulations:	274
	Tunnel restriction code:	E
	Physico-Chemical properties:	see section 9
	Limited quantities:	5 L
14.7	**Maritime transport in bulk according to IMO instruments:**	Non-applicable

Transport of dangerous goods by sea:

With regard to IMDG 40-20:

14.1	**UN number or ID number:**	UN3265
14.2	**UN proper shipping name:**	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (L-(+)-lactic acid)
14.3	**Transport hazard class(es):**	8
	Labels:	8
14.4	**Packing group:**	III
14.5	**Marine pollutant:**	No
14.6	**Special precautions for user**	
	Special regulations:	274, 223
	EmS Codes:	F-A, S-B
	Physico-Chemical properties:	see section 9
	Limited quantities:	5 L
	Segregation group:	SGG1
14.7	**Maritime transport in bulk according to IMO instruments:**	Non-applicable

Transport of dangerous goods by air:

With regard to IATA/ICAO 2023:

14.1	**UN number or ID number:**	UN3265
14.2	**UN proper shipping name:**	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (L-(+)-lactic acid)
14.3	**Transport hazard class(es):**	8
	Labels:	8
14.4	**Packing group:**	III
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

*** Changes with regards to the previous version*

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 L-(+)-lactic acid.

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SECTION 15: REGULATORY INFORMATION (continued)

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: L-(+)-lactic acid (Product-type 1, 2, 3, 4, 6) ; Geraniol (Product-type 18, 19)

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.

Labelling for contents:

Component	Concentration interval
Non-ionic surfactants	5 <= % (w/w) < 15
perfumes	

Allergenic fragrances: Citronellol (CITRONELLOL), d-limonene (LIMONENE), Eugenol (EUGENOL), Geraniol (GERANIOL), Hexyl cinnam-aldehyde (HEXYL CINNAMAL), Linalool (LINALOOL).
Preservation agents: L-(+)-lactic acid.

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

- 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.:

TRANSPORT INFORMATION (SECTION 14):
- UN number
- Packing group

Texts of the legislative phrases mentioned in section 2:

- CONTINUED ON NEXT PAGE -

SECTION 16: OTHER INFORMATION (continued)

H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
H412: Harmful to aquatic life with long lasting effects.

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 1: H410 - Very toxic to aquatic life with long lasting effects.
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
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.
Eye Irrit. 2: H319 - Causes serious eye irritation.
Flam. Liq. 3: H226 - Flammable liquid and vapour.
Skin Corr. 1C: H314 - Causes severe skin burns and eye damage.
Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1B: H317 - May cause an allergic skin reaction.

Classification procedure:

Skin Corr. 1: Calculation method
Eye Dam. 1: Calculation method
Aquatic Chronic 3: 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:

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

Other information:

Product used in our three dosing systems:
*DOSE
*DRY
*SMP

Consult Technical Sheet for instructions for use and dosage

- END OF SAFETY DATA SHEET -