1605 - CODINA Antical-desincrustante

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

1.1 Product identifier: 1605 - CODINA Antical-desincrustante

Other means of identification:

UFI: 4G40-705J-000N-7PK0

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

Relevant uses (Professional users): Acidic descaler
Relevant uses (Industrial user): Acidic descaler
For Professional users/Industrial user only.
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:

Productos Codina, S. A.
c/Solís, 51
08301 Mataró - Barcelona - Spain
Phone: +34 937901119 - Fax: +34 937962903
productos@codina.es
www.codina.es

1.4 Emergency telephone number: Servicio Médico de Información Toxicológica Tel. 915620420

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 Irrit. 2: Eye irritation, Category 2, H319
Skin Irrit. 2: Skin irritation, Category 2, H315

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Warning

Hazard statements:

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
Eye Irrit. 2: H319 - Causes serious eye irritation.
Skin Irrit. 2: H315 - Causes skin irritation.

Precautionary statements:

P264: Wash thoroughly after handling.
P280: Wear protective gloves/eye protection.
P302+P352: IF ON SKIN: Wash with plenty of water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P337+P313: If eye irritation persists: Get medical advice/attention.
P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

UFI: 4G40-705J-000N-7PK0

2.3 Other hazards:

Product does not meet PBT/vPvB criteria
Endocrine-disrupting properties: The product does not meet the criteria.

*** Changes with regards to the previous version*

*** Changes with regards to the previous version*

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS **

3.1 Substance:

Not relevant

3.2 Mixture:

Chemical description: Aqueous solution of tensoactives

Components:

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

Identification	Chemical name/Classification		Concentration
CAS: 64-18-6 EC: 200-579-1 Index: 607-001-00-0 REACH: 01-2119491174-37-XXXX	**Formic acid(1)**	Self-classified	**2 - <3%**
	Regulation 1272/2008	Acute Tox. 3: H331; Acute Tox. 4: H302; Flam. Liq. 3: H226; Skin Corr. 1A: H314; EUH071 - Danger	
CAS: 25307-17-9 EC: 246-807-3 Index: Not relevant REACH: 01-2119510876-35-XXXX	**2,2´-(octadec-9-enylimino)bisethanol (2 EO)(1)**	Self-classified	**0.5 - <2%**
	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Dam. 1: H318; Skin Corr. 1B: H314 - Danger	
CAS: 85408-49-7 EC: 287-011-6 Index: Not relevant REACH: Not relevant	**Amines, C12-16-alkyldimethyl, N-oxides(1)**	Self-classified	**0.003 - <0.5%**
	Regulation 1272/2008	Aquatic Acute 1: H400; Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger	
CAS: 101-84-8 EC: 202-981-2 Index: Not relevant REACH: 01-2119472545-33-XXXX	**Diphenyl ether(2)**	Self-classified	**<0.003%**
	Regulation 1272/2008	Aquatic Chronic 2: H411; Eye Irrit. 2: H319 - Warning	

(1) Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878
(2) Substance with a Union workplace exposure limit

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

Other information:

Identification	M-factor	
2,2´-(octadec-9-enylimino)bisethanol (2 EO) CAS: 25307-17-9 EC: 246-807-3	Acute	10
	Chronic	1

Identification	Specific concentration limit
Formic acid CAS: 64-18-6 EC: 200-579-1	% (w/w) >=90: Skin Corr. 1A - H314 10<= % (w/w) <90: Skin Corr. 1B - H314 2<= % (w/w) <10: Skin Irrit. 2 - H315 % (w/w) >=10: Eye Dam. 1 - H318 2<= % (w/w) <10: Eye Irrit. 2 - H319

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

Identification	Acute toxicity		Genus
2,2´-(octadec-9-enylimino)bisethanol (2 EO) CAS: 25307-17-9 EC: 246-807-3	LD50 oral	1260 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation vapour	Not relevant	
Formic acid CAS: 64-18-6 EC: 200-579-1	LD50 oral	730 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation vapour	7,85 mg/L	Rat

*** 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:

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SECTION 4: FIRST AID MEASURES (continued)

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:

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:

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

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

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

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

Not relevant

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

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

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.

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SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

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.

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.

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.- Specific storage requirements

Maximum Temp.: 30 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):

Directive (EU) 2000/39, Directive 2004/37/EC,Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

Identification	Occupational exposure limits		
Formic acid	IOELV (8h)	5 ppm	9 mg/m³
CAS: 64-18-6 EC: 200-579-1	IOELV (STEL)		

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Directive (EU) 2000/39, Directive 2004/37/EC,Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

Identification	Occupational exposure limits		
Diphenyl ether	IOELV (8h)	1 ppm	7 mg/m³
CAS: 101-84-8 EC: 202-981-2	IOELV (STEL)	2 ppm	14 mg/m³

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Formic acid	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 64-18-6	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 200-579-1	Inhalation	Not relevant	Not relevant	Not relevant	9,5 mg/m³
2,2´-(octadec-9-enylimino)bisethanol (2 EO)	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 25307-17-9	Dermal	Not relevant	Not relevant	0,42 mg/kg	Not relevant
EC: 246-807-3	Inhalation	Not relevant	Not relevant	2,96 mg/m³	Not relevant
Diphenyl ether	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 101-84-8	Dermal	Not relevant	Not relevant	25 mg/kg	Not relevant
EC: 202-981-2	Inhalation	Not relevant	14 mg/m³	59 mg/m³	7 mg/m³

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Formic acid	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 64-18-6	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 200-579-1	Inhalation	Not relevant	Not relevant	Not relevant	3 mg/m³
2,2´-(octadec-9-enylimino)bisethanol (2 EO)	Oral	Not relevant	Not relevant	0,15 mg/kg	Not relevant
CAS: 25307-17-9	Dermal	Not relevant	Not relevant	0,15 mg/kg	Not relevant
EC: 246-807-3	Inhalation	Not relevant	Not relevant	0,522 mg/m³	Not relevant

PNEC:

Identification				
Formic acid	STP	7,2 mg/L	Fresh water	2 mg/L
CAS: 64-18-6	Soil	1,5 mg/kg	Marine water	0,2 mg/L
EC: 200-579-1	Intermittent	1 mg/L	Sediment (Fresh water)	13,4 mg/kg
	Oral	Not relevant	Sediment (Marine water)	1,34 mg/kg
2,2´-(octadec-9-enylimino)bisethanol (2 EO)	STP	1,5 mg/L	Fresh water	0,00016 mg/L
CAS: 25307-17-9	Soil	5 mg/kg	Marine water	0,000016 mg/L
EC: 246-807-3	Intermittent	0,00043 mg/L	Sediment (Fresh water)	1,692 mg/kg
	Oral	2 g/kg	Sediment (Marine water)	0,169 mg/kg
Diphenyl ether	STP	10 mg/L	Fresh water	0 mg/L
CAS: 101-84-8	Soil	0,018 mg/kg	Marine water	0 mg/L
EC: 202-981-2	Intermittent	0,005 mg/L	Sediment (Fresh water)	0,093 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,009 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

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	Chemical protective gloves (Material: Linear low-density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 mm)	CE CAT III	EN ISO 21420:2020	Replace the gloves at any sign of deterioration.

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

D.- Eye and face protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Panoramic glasses against splash/projections.	CE CAT II	EN ISO 16321-1:2022+ A1:2025 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 20347:2022	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 13832-1:2019

F.- Additional emergency measures

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

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

Environmental exposure controls:

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

Volatile organic compounds:

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

V.O.C. (Supply):	2,25 % weight
V.O.C. density at 20 ºC:	22,98 kg/m³ (22,98 g/L)
Average carbon number:	1,17
Average molecular weight:	48,06 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

*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)

Colour:	Blue
Odour:	Citric
Odour threshold:	Not relevant *
Volatility:	
Boiling point at atmospheric pressure:	100 ºC
Vapour pressure at 20 ºC:	2368 Pa
Vapour pressure at 50 ºC:	12417,97 Pa (12,42 kPa)
Evaporation rate at 20 ºC:	Not relevant *
Product description:	
Density at 20 ºC:	1010 - 1030 kg/m³
Relative density at 20 ºC:	1,017
Dynamic viscosity at 20 ºC:	Not relevant *
Kinematic viscosity at 20 ºC:	Not relevant *
Kinematic viscosity at 40 ºC:	Not relevant *
Concentration:	Not relevant *
pH:	2 - 3
Vapour density at 20 ºC:	Not relevant *
Partition coefficient n-octanol/water 20 ºC:	Not relevant *
Solubility in water at 20 ºC:	Not relevant *
Solubility properties:	Not relevant *
Decomposition temperature:	Not relevant *
Melting point/freezing point:	Not relevant *
Flammability:	
Flash Point:	Non Flammable (>60 ºC)
Flammability (solid, gas):	Not relevant *
Autoignition temperature:	192 ºC
Lower flammability limit:	Not relevant *
Upper flammability limit:	Not relevant *
Particle characteristics:	
Median equivalent diameter:	Not relevant *

9.2 Other information:

Information with regard to physical hazard classes:	
Explosive properties:	Not relevant *
Oxidising properties:	Not relevant *
Corrosive to metals:	Not relevant *
Heat of combustion:	Not relevant *
Aerosols-total percentage (by mass) of flammable components:	Not relevant *
Other safety characteristics:	
Surface tension at 20 ºC:	Not relevant *
Refraction index:	Not relevant *

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

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

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SECTION 10: STABILITY AND REACTIVITY (continued)

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

10.2 Chemical stability:

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

10.3 Possibility of hazardous reactions:

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

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

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

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_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:

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: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

B- Inhalation (acute effect):

- 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: Produces skin inflammation.
- Contact with the eyes: Causes serious eye irritation.

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: Benzyl acetate (3: Not classifiable as to its carcinogenicity to humans); d-limonene (3: Not classifiable as to its carcinogenicity to humans); 2,6-di-tert-butyl-p-cresol (3: Not classifiable as to its carcinogenicity to humans); Eugenol (3: Not classifiable as to its carcinogenicity to humans); Coumarin (3: Not classifiable as to its carcinogenicity to humans); C.I.Acid Blue 9 (3: Not classifiable as to its carcinogenicity to humans)
- 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:

*** Changes with regards to the previous version*

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SECTION 11: TOXICOLOGICAL INFORMATION ** (continued)

- 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, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, 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, 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 toxicity		Genus
2,2´-(octadec-9-enylimino)bisethanol (2 EO) CAS: 25307-17-9 EC: 246-807-3	LD50 oral	1260 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation vapour	>20 mg/L	
Formic acid CAS: 64-18-6 EC: 200-579-1	LD50 oral	730 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation vapour	7,85 mg/L	Rat
Amines, C12-16-alkyldimethyl, N-oxides CAS: 85408-49-7 EC: 287-011-6	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation vapour	>20 mg/L	
Diphenyl ether CAS: 101-84-8 EC: 202-981-2	LD50 oral	>5000 mg/kg	Rat
	LD50 dermal	7940 mg/kg	Rabbit
	LC50 inhalation dust	>5 mg/L	

11.2 Information on other hazards:

Endocrine disrupting properties

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

Other information

Not relevant

*** 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

Harmful to aquatic life with long lasting effects.

12.1 Toxicity:

Acute toxicity:

Identification	Concentration		Species	Genus
Formic acid	LC50	150 mg/L (96 h)	Danio rerio	Fish
CAS: 64-18-6	EC50	365 mg/L (48 h)	Daphnia magna	Crustacean
EC: 200-579-1	EC50	Not relevant		

*** Changes with regards to the previous version*

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SECTION 12: ECOLOGICAL INFORMATION ** (continued)

Identification	Concentration		Species	Genus
2,2´-(octadec-9-enylimino)bisethanol (2 EO)	LC50	0,1 mg/L (96 h)	Danio rerio	Fish
CAS: 25307-17-9	EC50	0,043 mg/L (48 h)	Daphnia magna	Crustacean
EC: 246-807-3	EC50	0,0867 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Amines, C12-16-alkyldimethyl, N-oxides	LC50	>0.1 - 1 mg/L (96 h)		Fish
CAS: 85408-49-7	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
EC: 287-011-6	EC50	>0.1 - 1 mg/L (72 h)		Algae
Diphenyl ether	LC50	>1 - 10 mg/L (96 h)		Fish
CAS: 101-84-8	EC50	>1 - 10 mg/L (48 h)		Crustacean
EC: 202-981-2	EC50	>1 - 10 mg/L (72 h)		Algae

Chronic toxicity:

Identification	Concentration		Species	Genus
Formic acid	NOEC	Not relevant		
CAS: 64-18-6 EC: 200-579-1	NOEC	100 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability		Biodegradability	
Formic acid	BOD5	Not relevant	Concentration	18 mg/L
CAS: 64-18-6	COD	Not relevant	Period	28 days
EC: 200-579-1	BOD5/COD	Not relevant	% Biodegradable	97 %
2,2´-(octadec-9-enylimino)bisethanol (2 EO)	BOD5	Not relevant	Concentration	10 mg/L
CAS: 25307-17-9	COD	Not relevant	Period	28 days
EC: 246-807-3	BOD5/COD	Not relevant	% Biodegradable	88 %
Diphenyl ether	BOD5	Not relevant	Concentration	5.6 mg/L
CAS: 101-84-8	COD	Not relevant	Period	20 days
EC: 202-981-2	BOD5/COD	Not relevant	% Biodegradable	76 %

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccumulation potential	
Formic acid	BCF	3.2
CAS: 64-18-6	Pow Log	
EC: 200-579-1	Potential	Low
Diphenyl ether	BCF	196
CAS: 101-84-8	Pow Log	4.21
EC: 202-981-2	Potential	High

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Formic acid	Koc	31	Henry	1,9E-2 Pa·m³/mol
CAS: 64-18-6	Conclusion	Very High	Dry soil	Not relevant
EC: 200-579-1	Surface tension	3,862E-2 N/m (25 ºC)	Moist soil	Not relevant
2,2´-(octadec-9-enylimino)bisethanol (2 EO)	Koc	Not relevant	Henry	Not relevant
CAS: 25307-17-9	Conclusion	Not relevant	Dry soil	Not relevant
EC: 246-807-3	Surface tension	2,8E-2 N/m (25 ºC)	Moist soil	Not relevant
Diphenyl ether	Koc	1960	Henry	Not relevant
CAS: 101-84-8	Conclusion	Low	Dry soil	Not relevant
EC: 202-981-2	Surface tension	1,753E-2 N/m (258,4 ºC)	Moist soil	Not relevant

12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

12.6 Endocrine disrupting properties:

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

*** Changes with regards to the previous version*

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SECTION 12: ECOLOGICAL INFORMATION ** (continued)

12.7 Other adverse effects:

Not described

*** Changes with regards to the previous version*

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
20 01 14*	Acids	Hazardous

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

HP14 Ecotoxic, HP4 Irritant — skin irritation and eye damage

Waste management (disposal and evaluation):

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

Regulations related to waste management:

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

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

SECTION 14: TRANSPORT INFORMATION

This product is not regulated for transport (ADR/RID,IMDG,IATA)

SECTION 15: REGULATORY INFORMATION

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

- Article 95, REGULATION (EU) No 528/2012: *Formic acid (64-18-6) - PT: (2, 3, 4, 5, 6)*
- 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.

Labelling for contents:

Component	Concentration interval
Phosphonates	% (w/w) < 5
Non-ionic surfactants	% (w/w) < 5
Amphoteric surfactants	% (w/w) < 5
perfumes	

Allergenic fragrances: DL-bornan-2-one (CAMPHOR), Hexyl cinnam-aldehyde (HEXYL CINNAMAL), Pentyl salicylate (AMYL SALICYLATE).

Seveso III:

Not relevant

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

Shall not be used in:

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SECTION 15: REGULATORY INFORMATION (continued)

—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.:

COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12):
· New declared substances
Formic acid (64-18-6)
· Removed substances
Formic acid (64-18-6)
CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):
· Precautionary statements

Texts of the legislative phrases mentioned in section 2:

H315: Causes skin irritation.
H412: Harmful to aquatic life with long lasting effects.
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. 3: H331 - Toxic if inhaled.
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.
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. 1A: H314 - Causes severe skin burns and eye damage.
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
Skin Irrit. 2: H315 - Causes skin irritation.

Classification procedure:

Skin Irrit. 2: Calculation method
Aquatic Chronic 3: Calculation method
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.

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SECTION 16: OTHER INFORMATION (continued)

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

- END OF SAFETY DATA SHEET -