


PF023027_IT21
CI022346_IT21
MOROCCANOIL COLOR CALYPSO DEMI-PERMANENT GLOSS 4.6

Printing: 25/06/2024 Date of compilation: 04/05/2022 Version: 1

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

- 1.1 Product identifier:** PF023027_IT21
CI022346_IT21
MOROCCANOIL COLOR CALYPSO DEMI-PERMANENT GLOSS 4.6
- Other means of identification:**
Not relevant
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Relevant uses: Cosmetics
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:**
MOROCCANOIL
1 Moshe Levi st'
Rishon Lezion - Israel
info@moroccoanoil.com
- 1.4 Emergency telephone number:** 1-888-700-1817

SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture:**
This Regulation shall not apply to substances and mixtures in the following forms, which are in the finished state, intended for the final user: cosmetic products as defined in REGULATION (EC) No 1223/2009
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
Flam. Liq. 3: Flammable liquids, Category 3, H226
Skin Irrit. 2: Skin irritation, Category 2, H315
Skin Sens. 1A: Sensitisation, skin, Category 1A, H317
- 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.
Eye Dam. 1: H318 - Causes serious eye damage.
Flam. Liq. 3: H226 - Flammable liquid and vapour.
Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1A: H317 - May cause an allergic skin reaction.
- Precautionary statements:**
P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P264: Wash thoroughly after handling.
P280: Wear protective gloves/protective clothing/respiratory protection/eye protection/protective footwear.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370+P378: In case of fire: Use Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC) to extinguish.
P501: Dispose of contents/container according to the separated collection system used in your municipality.
- Supplementary information:**

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SECTION 2: HAZARDS IDENTIFICATION (continued)

Contains p-phenylenediamine.

Substances that contribute to the classification

Undecan-1-ol, ethoxylated (CAS: 34398-01-1); Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts (CAS: 68439-57-6); Amides, coco, N-(2-hydroxypropyl) (CAS: 68333-82-4); 1-(2-hydroxyethyl)-1H-pyrazol-4,5-diylidiammoniumsulfate (CAS: 155601-30-2); 5-amino-o-cresol (CAS: 2835-95-2)

Acute Toxicity Estimate (ATE mix):

27,34 % (oral), 33,99 % (dermal), 47,97 % (inhalation) of the mixture consists of ingredient(s) of unknown toxicity

2.3 Other hazards:

Product does not meet PBT/vPvB criteria

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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Aqueous mixture composed of alcohols and colourants

Components:

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

Identification	Chemical name/Classification		Concentration
CAS: 64-17-5 EC: 200-578-6 Index: 603-002-00-5 REACH: 01-2119457610-43-XXXX	ethanol⁽¹⁾	Self-classified	10 - <25 %
	Regulation 1272/2008	Eye Irrit. 2: H319; Flam. Liq. 2: H225 - Danger	
CAS: 34398-01-1 EC: 500-084-3 Index: Non-applicable REACH: Non-applicable	Undecan-1-ol, ethoxylated⁽¹⁾	Self-classified	10 - <25 %
	Regulation 1272/2008	Eye Dam. 1: H318 - Danger	
CAS: 68439-57-6 EC: 931-534-0 Index: Non-applicable REACH: 01-2119513401-57-XXXX	Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts⁽¹⁾	Self-classified	2,5 - <10 %
	Regulation 1272/2008	Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger	
CAS: 68333-82-4 EC: 269-793-0 Index: Non-applicable REACH: Non-applicable	Amides, coco, N-(2-hydroxypropyl)⁽¹⁾	Self-classified	2,5 - <10 %
	Regulation 1272/2008	Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger	
CAS: 155601-30-2 EC: 429-300-3 Index: 613-249-00-0 REACH: 01-2120091758-40-XXXX	1-(2-hydroxyethyl)-1H-pyrazol-4,5-diylidiammoniumsulfate⁽¹⁾	Self-classified	1 - <2,5 %
	Regulation 1272/2008	Aquatic Chronic 2: H411; Eye Dam. 1: H318; Skin Sens. 1: H317 - Danger	
CAS: 112-53-8 EC: 203-982-0 Index: Non-applicable REACH: 01-2119787279-18-XXXX	Dodecan-1-ol⁽¹⁾	Self-classified	1 - <2,5 %
	Regulation 1272/2008	Aquatic Acute 1: H400; Eye Irrit. 2: H319 - Warning	
CAS: 2835-95-2 EC: 220-618-6 Index: Non-applicable REACH: 01-2120766272-54-XXXX	5-amino-o-cresol⁽¹⁾	Self-classified	<1 %
	Regulation 1272/2008	Aquatic Chronic 2: H411; Skin Sens. 1A: H317 - Warning	
CAS: 106-50-3 EC: 203-404-7 Index: 612-028-00-6 REACH: 01-2119471483-36-XXXX	p-phenylenediamine⁽¹⁾	ATP CLP00	<1 %
	Regulation 1272/2008	Acute Tox. 3: H301+H311+H331; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Irrit. 2: H319; Skin Sens. 1: H317 - 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.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Other information:

Identification	Specific concentration limit
ethanol CAS: 64-17-5 EC: 200-578-6	% (w/w) >=50: Eye Irrit. 2 - H319
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts CAS: 68439-57-6 EC: 931-534-0	% (w/w) >=5: Skin Irrit. 2 - H315 % (w/w) >=38: Eye Dam. 1 - H318 5<= % (w/w) <38: 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
p-phenylenediamine CAS: 106-50-3 EC: 203-404-7	LD50 oral	137 mg/kg	Rat
	LD50 dermal	300 mg/kg (ATEi)	
	LC50 inhalation	3 mg/L (ATEi)	

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:

In case the skin is affected (stinging, redness, rashes, blisters,...), seek medical help with this Safety Data Form.

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:

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC)

Unsuitable extinguishing media:

Water jet

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:

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SECTION 5: FIREFIGHTING MEASURES (continued)

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures:****For non-emergency personnel:**

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

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

Avoid 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:

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. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

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

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). 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.

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SECTION 7: HANDLING AND STORAGE (continued)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Specific storage requirements

Minimum Temp.: 5 °C

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):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
ethanol CAS: 64-17-5 EC: 200-578-6	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	343 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	950 mg/m ³	Not relevant
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts CAS: 68439-57-6 EC: 931-534-0	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	2158,33 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	152,22 mg/m ³	Not relevant
Dodecan-1-ol CAS: 112-53-8 EC: 203-982-0	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	89 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	313 mg/m ³	155 mg/m ³
5-amino-o-cresol CAS: 2835-95-2 EC: 220-618-6	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	3,226 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	6,601 mg/m ³	Not relevant
p-phenylenediamine CAS: 106-50-3 EC: 203-404-7	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	0,32 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	0,23 mg/m ³	Not relevant

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
ethanol CAS: 64-17-5 EC: 200-578-6	Oral	Not relevant	Not relevant	87 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	206 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	114 mg/m ³	Not relevant
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts CAS: 68439-57-6 EC: 931-534-0	Oral	Not relevant	Not relevant	12,95 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	1295 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	45,04 mg/m ³	Not relevant
Dodecan-1-ol CAS: 112-53-8 EC: 203-982-0	Oral	Not relevant	Not relevant	44,5 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	44,5 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	77 mg/m ³	Not relevant
5-amino-o-cresol CAS: 2835-95-2 EC: 220-618-6	Oral	Not relevant	Not relevant	0,9 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	1,613 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	1,647 mg/m ³	Not relevant

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
p-phenylenediamine CAS: 106-50-3 EC: 203-404-7	Oral	Not relevant	Not relevant	0,16 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	0,16 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	0,06 mg/m ³	Not relevant

PNEC:



Identification					
ethanol CAS: 64-17-5 EC: 200-578-6	STP	580 mg/L	Fresh water	0,96 mg/L	
	Soil	0,63 mg/kg	Marine water	0,79 mg/L	
	Intermittent	2,75 mg/L	Sediment (Fresh water)	3,6 mg/kg	
	Oral	0,38 g/kg	Sediment (Marine water)	2,9 mg/kg	
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts CAS: 68439-57-6 EC: 931-534-0	STP	4 mg/L	Fresh water	0,024 mg/L	
	Soil	1,21 mg/kg	Marine water	0,002 mg/L	
	Intermittent	0,02 mg/L	Sediment (Fresh water)	0,767 mg/kg	
	Oral	Not relevant	Sediment (Marine water)	0,077 mg/kg	
Dodecan-1-ol CAS: 112-53-8 EC: 203-982-0	STP	Not relevant	Fresh water	0,001 mg/L	
	Soil	0,132 mg/kg	Marine water	0 mg/L	
	Intermittent	Not relevant	Sediment (Fresh water)	0,666 mg/kg	
	Oral	Not relevant	Sediment (Marine water)	0,067 mg/kg	
5-amino-o-cresol CAS: 2835-95-2 EC: 220-618-6	STP	1,5 mg/L	Fresh water	0,024 mg/L	
	Soil	0,012 mg/kg	Marine water	0,0024 mg/L	
	Intermittent	0,023 mg/L	Sediment (Fresh water)	0,129 mg/kg	
	Oral	Not relevant	Sediment (Marine water)	0,013 mg/kg	
p-phenylenediamine CAS: 106-50-3 EC: 203-404-7	STP	0,334 mg/L	Fresh water	0,001 mg/L	
	Soil	0 mg/kg	Marine water	0 mg/L	
	Intermittent	0,003 mg/L	Sediment (Fresh water)	0,002 mg/kg	
	Oral	Not relevant	Sediment (Marine water)	0 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

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory respiratory tract protection	Filter mask for gases and vapours	 CAT III	EN 405:2002+A1:2010	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	Chemical protective gloves (Material: Nitrile, Breakthrough time: > 480 min, Thickness: 0.4 mm)	 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

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Panoramic glasses against splash/projections.		EN 166:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory complete body protection	Antistatic and fireproof protective clothing		EN 1149-1:2006 EN 1149-2:1997 EN 1149-3:2004 EN 168:2002 EN ISO 14116:2015 EN 1149-5:2018	Limited protection against flames.
 Mandatory foot protection	Safety footwear with antistatic and heat resistant properties		EN ISO 13287:2020 EN ISO 20345:2011	Replace boots at any sign of deterioration.

F.- Additional emergency measures

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

Environmental exposure controls:

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

Volatile organic compounds:

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

V.O.C. (Supply):	13,21 % weight
V.O.C. density at 20 °C:	133,11 kg/m ³ (133,11 g/L)
Average carbon number:	2
Average molecular weight:	46,1 g/mol

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 °C:	Liquid
Appearance:	Fluid
Colour:	 Amber
Odour:	Characteristic
Odour threshold:	Not relevant *

Volatility:

Boiling point at atmospheric pressure:	78 - 371 °C
Vapour pressure at 20 °C:	2736 Pa
Vapour pressure at 50 °C:	13946,22 Pa (13,95 kPa)

*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)

Evaporation rate at 20 °C: Not relevant *

Product description:

Density at 20 °C: 1007,5 kg/m³

Relative density at 20 °C: 0,98 - 1

Dynamic viscosity at 20 °C: Not relevant *

Kinematic viscosity at 20 °C: Not relevant *

Kinematic viscosity at 40 °C: Not relevant *

Concentration: Not relevant *

pH: 9,2 - 10,2

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: 37 °C

Flammability (solid, gas): Not relevant *

Autoignition temperature: 255 °C

Lower flammability limit: Not available

Upper flammability limit: Not available

Particle characteristics:

Median equivalent diameter: Non-applicable

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 °C: 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:

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.

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SECTION 10: STABILITY AND REACTIVITY (continued)**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	Risk of combustion	Avoid direct impact	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 (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:**

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

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: 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: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

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

- Contact with the skin: Produces skin inflammation.
- 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: p-phenylenediamine (3); Sodium sulphite (3); ethanol (1)
- 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: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

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:

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- 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
p-phenylenediamine CAS: 106-50-3 EC: 203-404-7	LD50 oral	137 mg/kg (ATEi)	Rat
	LD50 dermal	300 mg/kg (ATEi)	
	LC50 inhalation	3 mg/L (ATEi)	
ethanol CAS: 64-17-5 EC: 200-578-6	LD50 oral	6200 mg/kg	Rat
	LD50 dermal	20000 mg/kg	Rabbit
	LC50 inhalation	124,7 mg/L (4 h)	Rat
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts CAS: 68439-57-6 EC: 931-534-0	LD50 oral	2290 mg/kg	Rat
	LD50 dermal	6300 mg/kg	Rabbit
	LC50 inhalation		
Dodecan-1-ol CAS: 112-53-8 EC: 203-982-0	LD50 oral	26530 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation		
5-amino-o-cresol CAS: 2835-95-2 EC: 220-618-6	LD50 oral	3600 mg/kg	Rat
	LD50 dermal	5688 mg/kg	Rat
	LC50 inhalation		

Acute Toxicity Estimate (ATE mix):

ATE mix		Ingredient(s) of unknown toxicity
Oral	18139,83 mg/kg (Calculation method)	27,34 %
Dermal	36083,37 mg/kg (Calculation method)	33,99 %
Inhalation	284,44 mg/L (4 h) (Calculation method)	47,97 %

11.2 Information on other hazards:

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

Harmful to aquatic life with long lasting effects.

12.1 Toxicity:

Acute toxicity:

Identification	Concentration		Species	Genus
ethanol CAS: 64-17-5 EC: 200-578-6	LC50	11000 mg/L (96 h)	Alburnus alburnus	Fish
	EC50	9268 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	1450 mg/L (192 h)	Microcystis aeruginosa	Algae

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Concentration		Species	Genus
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts CAS: 68439-57-6 EC: 931-534-0	LC50	4,2 mg/L (96 h)	Brachydanio rerio	Fish
	EC50	4,53 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	5,2 mg/L (72 h)	Skeletonema costatum	Algae
1-(2-hydroxyethyl)-1H-pyrazol-4,5-diylidammoniumsulfate CAS: 155601-30-2 EC: 429-300-3	LC50	86,23 mg/L (96 h)	Danio rerio	Fish
	EC50	11,12 mg/L (48 h)	N/A	Crustacean
	EC50	5,33 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Dodecan-1-ol CAS: 112-53-8 EC: 203-982-0	LC50	1,01 mg/L (96 h)	Pimephales promelas	Fish
	EC50	320 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	0,97 mg/L (96 h)	Scenedesmus subspicatus	Algae
5-amino-o-cresol CAS: 2835-95-2 EC: 220-618-6	LC50	25 mg/L (96 h)	Danio rerio	Fish
	EC50	2,3 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	17 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
p-phenylenediamine CAS: 106-50-3 EC: 203-404-7	LC50	0,5 mg/L (96 h)	Leuciscus idus	Fish
	EC50	Not relevant		
	EC50	Not relevant		

Chronic toxicity:

Identification	Concentration		Species	Genus
ethanol	NOEC	250 mg/L	Danio rerio	Fish
CAS: 64-17-5 EC: 200-578-6	NOEC	2 mg/L	Ceriodaphnia dubia	Crustacean
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	NOEC	Not relevant		
CAS: 68439-57-6 EC: 931-534-0	NOEC	6,3 mg/L	Daphnia magna	Crustacean
Dodecan-1-ol	NOEC	0,26 mg/L	Pimephales promelas	Fish
CAS: 112-53-8 EC: 203-982-0	NOEC	0,014 mg/L	Daphnia magna	Crustacean
5-amino-o-cresol	NOEC	Not relevant		
CAS: 2835-95-2 EC: 220-618-6	NOEC	0,24 mg/L	Daphnia magna	Crustacean
p-phenylenediamine	NOEC	Not relevant		
CAS: 106-50-3 EC: 203-404-7	NOEC	0,00501 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability		Biodegradability	
ethanol CAS: 64-17-5 EC: 200-578-6	BOD5	Not relevant	Concentration	100 mg/L
	COD	Not relevant	Period	14 days
	BOD5/COD	Not relevant	% Biodegradable	89 %
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts CAS: 68439-57-6 EC: 931-534-0	BOD5	Not relevant	Concentration	20 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	96 %
1-(2-hydroxyethyl)-1H-pyrazol-4,5-diylidammoniumsulfate CAS: 155601-30-2 EC: 429-300-3	BOD5	Not relevant	Concentration	Not relevant
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	33 %
5-amino-o-cresol CAS: 2835-95-2 EC: 220-618-6	BOD5	Not relevant	Concentration	15 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	0 %
p-phenylenediamine CAS: 106-50-3 EC: 203-404-7	BOD5	Not relevant	Concentration	100 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	5 %

12.3 Bioaccumulative potential:

Substance-specific information:

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Bioaccumulation potential	
ethanol CAS: 64-17-5 EC: 200-578-6	BCF	3
	Pow Log	-0.31
	Potential	Low
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts CAS: 68439-57-6 EC: 931-534-0	BCF	71
	Pow Log	-1.3
	Potential	Moderate
1-(2-hydroxyethyl)-1H-pyrazol-4,5-diylidammoniumsulfate CAS: 155601-30-2 EC: 429-300-3	BCF	
	Pow Log	-1.75
	Potential	
Dodecan-1-ol CAS: 112-53-8 EC: 203-982-0	BCF	180
	Pow Log	5.13
	Potential	High
5-amino-o-cresol CAS: 2835-95-2 EC: 220-618-6	BCF	
	Pow Log	0.53
	Potential	
p-phenylenediamine CAS: 106-50-3 EC: 203-404-7	BCF	0.3
	Pow Log	-0.3
	Potential	Low

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
ethanol CAS: 64-17-5 EC: 200-578-6	Koc	1	Henry	4,61E-1 Pa·m ³ /mol
	Conclusion	Very High	Dry soil	Yes
	Surface tension	2,339E-2 N/m (25 °C)	Moist soil	Yes
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts CAS: 68439-57-6 EC: 931-534-0	Koc	1.6	Henry	6,7E-2 Pa·m ³ /mol
	Conclusion	Very High	Dry soil	Yes
	Surface tension	Not relevant	Moist soil	Yes
Dodecan-1-ol CAS: 112-53-8 EC: 203-982-0	Koc	15000	Henry	2,25 Pa·m ³ /mol
	Conclusion	Immobile	Dry soil	Not relevant
	Surface tension	2,94E-2 N/m (25 °C)	Moist soil	Yes
5-amino-o-cresol CAS: 2835-95-2 EC: 220-618-6	Koc	17.8	Henry	Not relevant
	Conclusion	Very High	Dry soil	Not relevant
	Surface tension	Not relevant	Moist soil	Not relevant
p-phenylenediamine CAS: 106-50-3 EC: 203-404-7	Koc	16	Henry	6,789E-5 Pa·m ³ /mol
	Conclusion	Very High	Dry soil	No
	Surface tension	1,754E-2 N/m (331,35 °C)	Moist soil	No

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.

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	Hazardous

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SECTION 13: DISPOSAL CONSIDERATIONS (continued)

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

HP14 Ecotoxic, HP3 Flammable, 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

Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023:



- | | |
|--|----------------------------|
| 14.1 UN number or ID number: | UN1987 |
| 14.2 UN proper shipping name: | ALCOHOLS, N.O.S. (ethanol) |
| 14.3 Transport hazard class(es): | 3 |
| Labels: | 3 |
| 14.4 Packing group: | III |
| 14.5 Environmental hazards: | No |
| 14.6 Special precautions for user | |
| Special regulations: | 274, 601 |
| Tunnel restriction code: | D/E |
| Physico-Chemical properties: | see section 9 |
| Limited quantities: | 5 L |
| 14.7 Maritime transport in bulk according to IMO instruments: | Not relevant |

Transport of dangerous goods by sea:

With regard to IMDG 41-22:



- | | |
|--|----------------------------|
| 14.1 UN number or ID number: | UN1987 |
| 14.2 UN proper shipping name: | ALCOHOLS, N.O.S. (ethanol) |
| 14.3 Transport hazard class(es): | 3 |
| Labels: | 3 |
| 14.4 Packing group: | III |
| 14.5 Marine pollutant: | No |
| 14.6 Special precautions for user | |
| Special regulations: | 274, 223 |
| EmS Codes: | F-E, S-D |
| Physico-Chemical properties: | see section 9 |
| Limited quantities: | 5 L |
| Segregation group: | Not relevant |
| 14.7 Maritime transport in bulk according to IMO instruments: | Not relevant |

Transport of dangerous goods by air:

With regard to IATA/ICAO 2024:

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SECTION 14: TRANSPORT INFORMATION (continued)



- 14.1 UN number or ID number:** UN1987
14.2 UN proper shipping name: ALCOHOLS, N.O.S. (ethanol)
14.3 Transport hazard class(es): 3
Labels: 3
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: Not relevant

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: *ethanol (64-17-5) - PT: (1,2,4,6)*
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

Seveso III:

Section	Description	Lower-tier requirements	Upper-tier requirements
P5c	FLAMMABLE LIQUIDS	5000	50000

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

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 2:

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SECTION 16: OTHER INFORMATION (continued)

H317: May cause an allergic skin reaction.
H412: Harmful to aquatic life with long lasting effects.
H318: Causes serious eye damage.
H315: Causes skin irritation.
H226: Flammable liquid and vapour.

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: H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled.
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. 2: H225 - Highly flammable liquid and vapour.
Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1: H317 - May cause an allergic skin reaction.
Skin Sens. 1A: H317 - May cause an allergic skin reaction.

Classification procedure:

Skin Sens. 1A: Calculation method
Aquatic Chronic 3: Calculation method
Eye Dam. 1: Calculation method
Skin Irrit. 2: Calculation method
Flam. Liq. 3: Calculation method (2.6.4.3)

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

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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