

**PF023034\_IT21**  
**CI022361\_IT21**  
**MOROCCANOIL COLOR CALYPSO DEMI-PERMANENT GLOSS 2.1**

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

- 1.1 Product identifier:** PF023034\_IT21  
CI022361\_IT21  
MOROCCANOIL COLOR CALYPSO DEMI-PERMANENT GLOSS 2.1
- 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 Corr. 1B: Skin corrosion, Category 1B, H314  
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.  
Flam. Liq. 3: H226 - Flammable liquid and vapour.  
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.  
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.  
P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.  
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.  
P501: Dispose of contents/container according to the separated collection system used in your municipality.
- Supplementary information:**  
Contains 2-(2,4-diaminophenoxy)ethanol dihydrochloride, p-phenylenediamine.
- Substances that contribute to the classification**

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# Safety data sheet

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### SECTION 2: HAZARDS IDENTIFICATION (continued)

Undecan-1-ol, ethoxylated (CAS: 34398-01-1); potassium hydroxide (CAS: 1310-58-3); 2-[2-(dodecyloxy)ethoxy]ethanol (CAS: 3055-93-4); 2-(1,3-benzodioxol-5-ylamino)ethanol hydrochloride (CAS: 94158-14-2)

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

22,08 % (oral), 43,77 % (dermal), 43,77 % (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: 34398-01-1<br>EC: 500-084-3<br>Index: Non-applicable<br>REACH: Non-applicable        | Undecan-1-ol, ethoxylated <sup>(1)</sup> Self-classified                     |                                                                                                                                                                                                                              | 10 - <25 %    |
|                                                                                           | Regulation 1272/2008                                                         | Eye Dam. 1: H318 - Danger                                                                                                               |               |
| CAS: 64-17-5<br>EC: 200-578-6<br>Index: 603-002-00-5<br>REACH: 01-2119457610-43-XXXX      | ethanol <sup>(1)</sup> Self-classified                                       |                                                                                                                                                                                                                              | 10 - <25 %    |
|                                                                                           | Regulation 1272/2008                                                         | Eye Irrit. 2: H319; Flam. Liq. 2: H225 - Danger                                                                                         |               |
| CAS: 1310-58-3<br>EC: 215-181-3<br>Index: 019-002-00-8<br>REACH: 01-2119487136-33-XXXX    | potassium hydroxide <sup>(1)</sup> ATP CLP00                                 |                                                                                                                                                                                                                              | 1 - <2,5 %    |
|                                                                                           | Regulation 1272/2008                                                         | Acute Tox. 4: H302; Skin Corr. 1A: H314 - Danger                                                                                        |               |
| CAS: 3055-93-4<br>EC: 221-279-7<br>Index: Non-applicable<br>REACH: Non-applicable         | 2-[2-(dodecyloxy)ethoxy]ethanol <sup>(1)</sup> Self-classified               |                                                                                                                                                                                                                              | 1 - <2,5 %    |
|                                                                                           | Regulation 1272/2008                                                         | Aquatic Acute 1: H400; Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger                                                                   |               |
| CAS: 106-50-3<br>EC: 203-404-7<br>Index: 612-028-00-6<br>REACH: 01-2119471483-36-XXXX     | p-phenylenediamine <sup>(1)</sup> 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           |               |
| CAS: 112-02-7<br>EC: 203-928-6<br>Index: Non-applicable<br>REACH: 01-2119970558-23-XXXX   | Cetrimonium chloride <sup>(1)</sup> Self-classified                          |                                                                                                                                                                                                                              | <1 %          |
|                                                                                           | Regulation 1272/2008                                                         | Acute Tox. 3: H311; Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Dam. 1: H318; Skin Corr. 1C: H314 - Danger  |               |
| CAS: 66422-95-5<br>EC: 266-357-1<br>Index: Non-applicable<br>REACH: 01-2120011817-60-XXXX | 2-(2,4-diaminophenoxy)ethanol dihydrochloride <sup>(1)</sup> Self-classified |                                                                                                                                                                                                                              | <1 %          |
|                                                                                           | Regulation 1272/2008                                                         | Acute Tox. 4: H302; Aquatic Chronic 2: H411; Eye Dam. 1: H318; Skin Sens. 1B: H317 - Danger                                             |               |
| CAS: 108-46-3<br>EC: 203-585-2<br>Index: 604-010-00-1<br>REACH: 01-2119480136-40-XXXX     | resorcinol <sup>(1)</sup> ATP CLP00                                          |                                                                                                                                                                                                                              | <1 %          |
|                                                                                           | Regulation 1272/2008                                                         | Acute Tox. 4: H302; Aquatic Acute 1: H400; Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning                                            |               |
| CAS: 66455-14-9<br>EC: 500-165-3<br>Index: Non-applicable<br>REACH: 01-2119488045-35-XXXX | Alcohols, C12-13, ethoxylated <sup>(1)</sup> Self-classified                 |                                                                                                                                                                                                                              | <1 %          |
|                                                                                           | Regulation 1272/2008                                                         | Aquatic Acute 1: H400; Aquatic Chronic 3: H412 - Warning                                                                                |               |

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

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

| Identification                                                                            | Chemical name/Classification                                                                                                                                                                                                                                                                                        | Concentration |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| CAS: 94158-14-2<br>EC: 303-085-5<br>Index: Non-applicable<br>REACH: 01-2120758799-28-XXXX | <b>2-(1,3-benzodioxol-5-ylamino)ethanol hydrochloride<sup>(1)</sup></b> Self-classified<br>Regulation 1272/2008 Acute Tox. 4: H302; Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Skin Sens. 1A: H317; STOT RE 2: H373 - Warning  | <1 %          |

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

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

## Other information:

| Identification                                      | M-factor              |
|-----------------------------------------------------|-----------------------|
| Cetrimonium chloride<br>CAS: 112-02-7 EC: 203-928-6 | Acute 10<br>Chronic 1 |

| Identification                                         | Specific concentration limit                                                                                                                                                                   |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ethanol<br>CAS: 64-17-5<br>EC: 200-578-6               | % (w/w) >=50: Eye Irrit. 2 - H319                                                                                                                                                              |
| potassium hydroxide<br>CAS: 1310-58-3<br>EC: 215-181-3 | % (w/w) >=5: Skin Corr. 1A - H314<br>2<= % (w/w) <5: Skin Corr. 1B - H314<br>0,5<= % (w/w) <2: Skin Irrit. 2 - H315<br>% (w/w) >=2: Eye Dam. 1 - H318<br>0,5<= % (w/w) <2: 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         |
|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------|
| Cetrimonium chloride<br>CAS: 112-02-7<br>EC: 203-928-6                                 | LD50 oral 861 mg/kg<br>LD50 dermal 627 mg/kg<br>LC50 inhalation Not relevant         | Rat<br>Rabbit |
| p-phenylenediamine<br>CAS: 106-50-3<br>EC: 203-404-7                                   | LD50 oral 137 mg/kg<br>LD50 dermal 300 mg/kg (ATEi)<br>LC50 inhalation 3 mg/L (ATEi) | Rat           |
| potassium hydroxide<br>CAS: 1310-58-3<br>EC: 215-181-3                                 | LD50 oral 388 mg/kg<br>LD50 dermal Not relevant<br>LC50 inhalation Not relevant      | Rat           |
| 2-(2,4-diaminophenoxy)ethanol dihydrochloride<br>CAS: 66422-95-5<br>EC: 266-357-1      | LD50 oral 1000 mg/kg<br>LD50 dermal Not relevant<br>LC50 inhalation Not relevant     | Rat           |
| resorcinol<br>CAS: 108-46-3<br>EC: 203-585-2                                           | LD50 oral 310 mg/kg<br>LD50 dermal Not relevant<br>LC50 inhalation Not relevant      | Rat           |
| 2-(1,3-benzodioxol-5-ylamino)ethanol hydrochloride<br>CAS: 94158-14-2<br>EC: 303-085-5 | LD50 oral 850 mg/kg<br>LD50 dermal Not relevant<br>LC50 inhalation Not relevant      | Rat           |

## SECTION 4: FIRST AID MEASURES

## 4.1 Description of first aid measures:

Request medical assistance immediately, 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:

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**SECTION 4: FIRST AID MEASURES (continued)**

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:**

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.

**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:**

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.

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**SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)**

**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.

**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):

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 |        |                      |
|---------------------------------------------------------------|------------------------------|--------|----------------------|
|                                                               | IOELV (8h)                   | 10 ppm | 45 mg/m <sup>3</sup> |
| resorcinol <sup>(1)</sup><br>CAS: 108-46-3      EC: 203-585-2 | IOELV (STEL)                 |        |                      |

<sup>(1)</sup> Skin

**DNEL (Workers):**

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

| Identification                                                                    |            | Short exposure |              | Long exposure          |                         |
|-----------------------------------------------------------------------------------|------------|----------------|--------------|------------------------|-------------------------|
|                                                                                   |            | Systemic       | Local        | Systemic               | Local                   |
| ethanol<br>CAS: 64-17-5<br>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 <sup>3</sup>  | Not relevant            |
| potassium hydroxide<br>CAS: 1310-58-3<br>EC: 215-181-3                            | Oral       | Not relevant   | Not relevant | Not relevant           | Not relevant            |
|                                                                                   | Dermal     | Not relevant   | Not relevant | Not relevant           | Not relevant            |
|                                                                                   | Inhalation | Not relevant   | Not relevant | Not relevant           | 1 mg/m <sup>3</sup>     |
| p-phenylenediamine<br>CAS: 106-50-3<br>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 <sup>3</sup> | Not relevant            |
| Cetrimonium chloride<br>CAS: 112-02-7<br>EC: 203-928-6                            | Oral       | Not relevant   | Not relevant | Not relevant           | Not relevant            |
|                                                                                   | Dermal     | Not relevant   | Not relevant | 4,7 mg/kg              | Not relevant            |
|                                                                                   | Inhalation | Not relevant   | Not relevant | 3,32 mg/m <sup>3</sup> | Not relevant            |
| 2-(2,4-diaminophenoxy)ethanol dihydrochloride<br>CAS: 66422-95-5<br>EC: 266-357-1 | Oral       | Not relevant   | Not relevant | Not relevant           | Not relevant            |
|                                                                                   | Dermal     | Not relevant   | Not relevant | 23,81 mg/kg            | Not relevant            |
|                                                                                   | Inhalation | Not relevant   | Not relevant | 0,7 mg/m <sup>3</sup>  | Not relevant            |
| resorcinol<br>CAS: 108-46-3<br>EC: 203-585-2                                      | Oral       | Not relevant   | Not relevant | Not relevant           | Not relevant            |
|                                                                                   | Dermal     | Not relevant   | Not relevant | 40 mg/kg               | Not relevant            |
|                                                                                   | Inhalation | Not relevant   | Not relevant | 5,6 mg/m <sup>3</sup>  | 132,8 mg/m <sup>3</sup> |

#### DNEL (General population):

| Identification                                         |            | Short exposure |              | Long exposure           |                      |
|--------------------------------------------------------|------------|----------------|--------------|-------------------------|----------------------|
|                                                        |            | Systemic       | Local        | Systemic                | Local                |
| ethanol<br>CAS: 64-17-5<br>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 <sup>3</sup>   | Not relevant         |
| potassium hydroxide<br>CAS: 1310-58-3<br>EC: 215-181-3 | Oral       | Not relevant   | Not relevant | Not relevant            | Not relevant         |
|                                                        | Dermal     | Not relevant   | Not relevant | Not relevant            | Not relevant         |
|                                                        | Inhalation | Not relevant   | Not relevant | Not relevant            | 1 mg/m <sup>3</sup>  |
| p-phenylenediamine<br>CAS: 106-50-3<br>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 <sup>3</sup>  | Not relevant         |
| Cetrimonium chloride<br>CAS: 112-02-7<br>EC: 203-928-6 | Oral       | Not relevant   | Not relevant | 2,83 mg/kg              | Not relevant         |
|                                                        | Dermal     | Not relevant   | Not relevant | 2,83 mg/kg              | Not relevant         |
|                                                        | Inhalation | Not relevant   | Not relevant | 0,98 mg/m <sup>3</sup>  | Not relevant         |
| resorcinol<br>CAS: 108-46-3<br>EC: 203-585-2           | Oral       | Not relevant   | Not relevant | 0,4 mg/kg               | Not relevant         |
|                                                        | Dermal     | Not relevant   | Not relevant | 20 mg/kg                | Not relevant         |
|                                                        | Inhalation | Not relevant   | Not relevant | 1,394 mg/m <sup>3</sup> | 33 mg/m <sup>3</sup> |

#### PNEC:

| Identification                                       |              |              |                         |  |             |
|------------------------------------------------------|--------------|--------------|-------------------------|--|-------------|
| ethanol<br>CAS: 64-17-5<br>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   |
| p-phenylenediamine<br>CAS: 106-50-3<br>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     |

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

| Identification                                                                    |              |              |                         |             |
|-----------------------------------------------------------------------------------|--------------|--------------|-------------------------|-------------|
| Cetrimonium chloride<br>CAS: 112-02-7<br>EC: 203-928-6                            | STP          | 0,4 mg/L     | Fresh water             | 0,001 mg/L  |
|                                                                                   | Soil         | 7 mg/kg      | Marine water            | 0 mg/L      |
|                                                                                   | Intermittent | 0,001 mg/L   | Sediment (Fresh water)  | 9,27 mg/kg  |
|                                                                                   | Oral         | Not relevant | Sediment (Marine water) | 0,927 mg/kg |
| 2-(2,4-diaminophenoxy)ethanol dihydrochloride<br>CAS: 66422-95-5<br>EC: 266-357-1 | STP          | 50,1 mg/L    | Fresh water             | 0,043 mg/L  |
|                                                                                   | Soil         | 0,021 mg/kg  | Marine water            | 0,004 mg/L  |
|                                                                                   | Intermittent | 0,65 mg/L    | Sediment (Fresh water)  | 0,231 mg/kg |
|                                                                                   | Oral         | Not relevant | Sediment (Marine water) | 0,023 mg/kg |
| resorcinol<br>CAS: 108-46-3<br>EC: 203-585-2                                      | STP          | 0,79 mg/L    | Fresh water             | 0,017 mg/L  |
|                                                                                   | Soil         | 10 mg/kg     | Marine water            | 0,002 mg/L  |
|                                                                                   | Intermittent | Not relevant | Sediment (Fresh water)  | 0,08 mg/kg  |
|                                                                                   | Oral         | Not relevant | Sediment (Marine water) | 0,008 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                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>Mandatory respiratory tract protection | Filter mask for gases and vapours | <br>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                                          |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------|
| <br>Mandatory hand protection | Chemical protective gloves (Material: Linear low-density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 mm) | <br>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                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <br>Mandatory face protection | Face shield | <br>CAT II | EN 166:2002<br>EN 167:2002<br>EN 168:2002<br>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                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| <br>Mandatory complete body protection | Disposable clothing for protection against chemical risks, with antistatic and fireproof properties | <br>CAT III | EN 1149-1,2,3<br>EN 13034:2005+A1:2009<br>EN ISO 13982-1:2004/A1:2010<br>EN ISO 6529:2013<br>EN ISO 6530:2005<br>EN ISO 13688:2013<br>EN 464:1994 | For professional use only. Clean periodically according to the manufacturer's instructions. |

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

| Pictogram                                                                                                      | PPE                                                                                                 | Labelling                                                                                    | CEN Standard                                              | Remarks                                     |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------|
| <br>Mandatory foot protection | Safety footwear for protection against chemical risk, with antistatic and heat resistant properties | <br>CAT III | EN ISO 13287:2020<br>EN ISO 20345:2011<br>EN 13832-1:2019 | Replace boots at any sign of deterioration. |

#### F.- Additional emergency measures

| Emergency measure                                                                                     | Standards                                       | Emergency measure                                                                                      | Standards                                      |
|-------------------------------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------|
| <br>Emergency shower | ANSI Z358-1<br>ISO 3864-1:2011, ISO 3864-4:2011 | <br>Eyewash stations | DIN 12 899<br>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):          | 12 % weight                           |
| V.O.C. density at 20 °C:  | 118,61 kg/m <sup>3</sup> (118,61 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:                  |  Yellow |
| Odour:                   | Characteristic                                                                             |
| Odour threshold:         | Not relevant *                                                                             |

##### Volatility:

|                                        |                         |
|----------------------------------------|-------------------------|
| Boiling point at atmospheric pressure: | 78 - 1320 °C            |
| Vapour pressure at 20 °C:              | 2625 Pa                 |
| Vapour pressure at 50 °C:              | 13446,42 Pa (13,45 kPa) |
| Evaporation rate at 20 °C:             | Not relevant *          |

##### Product description:

|                               |                         |
|-------------------------------|-------------------------|
| Density at 20 °C:             | 988,4 kg/m <sup>3</sup> |
| 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:                           | 9,5 - 10,5              |

\*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)

|                                              |                |
|----------------------------------------------|----------------|
| 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:  | 225 °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.

#### 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:

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**SECTION 10: STABILITY AND REACTIVITY (continued)**

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

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

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

**Dangerous health implications:**

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

**A- Ingestion (acute effect):**

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: 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. 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: 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: ethanol (1); Eugenol (3); Coumarin (3); p-phenylenediamine (3); resorcinol (3); Sodium sulphite (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: 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:**

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met. However, it does contain substances which are classified as dangerous due to repetitive exposure. 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

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### SECTION 11: TOXICOLOGICAL INFORMATION (continued)

#### Specific toxicology information on the substances:

| Identification                                                                         | Acute toxicity  |                  | Genus  |
|----------------------------------------------------------------------------------------|-----------------|------------------|--------|
| ethanol<br>CAS: 64-17-5<br>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    |
| Cetrimonium chloride<br>CAS: 112-02-7<br>EC: 203-928-6                                 | LD50 oral       | 861 mg/kg        | Rat    |
|                                                                                        | LD50 dermal     | 627 mg/kg (ATEi) | Rabbit |
|                                                                                        | LC50 inhalation |                  |        |
| p-phenylenediamine<br>CAS: 106-50-3<br>EC: 203-404-7                                   | LD50 oral       | 137 mg/kg (ATEi) | Rat    |
|                                                                                        | LD50 dermal     | 300 mg/kg (ATEi) |        |
|                                                                                        | LC50 inhalation | 3 mg/L (ATEi)    |        |
| potassium hydroxide<br>CAS: 1310-58-3<br>EC: 215-181-3                                 | LD50 oral       | 388 mg/kg (ATEi) | Rat    |
|                                                                                        | LD50 dermal     |                  |        |
|                                                                                        | LC50 inhalation |                  |        |
| 2-(2,4-diaminophenoxy)ethanol dihydrochloride<br>CAS: 66422-95-5<br>EC: 266-357-1      | LD50 oral       | 1000 mg/kg       | Rat    |
|                                                                                        | LD50 dermal     | 45450 mg/kg      | Rat    |
|                                                                                        | LC50 inhalation |                  |        |
| resorcinol<br>CAS: 108-46-3<br>EC: 203-585-2                                           | LD50 oral       | 310 mg/kg        | Rat    |
|                                                                                        | LD50 dermal     | 2830 mg/kg       | Rabbit |
|                                                                                        | LC50 inhalation |                  |        |
| 2-(1,3-benzodioxol-5-ylamino)ethanol hydrochloride<br>CAS: 94158-14-2<br>EC: 303-085-5 | LD50 oral       | 850 mg/kg        | Rat    |
|                                                                                        | LD50 dermal     |                  |        |
|                                                                                        | LC50 inhalation |                  |        |

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

| ATE mix    |                                        | Ingredient(s) of unknown toxicity |
|------------|----------------------------------------|-----------------------------------|
| Oral       | 6055,57 mg/kg (Calculation method)     | 22,08 %                           |
| Dermal     | 14807,58 mg/kg (Calculation method)    | 43,77 %                           |
| Inhalation | 187,44 mg/L (4 h) (Calculation method) | 43,77 %                           |

#### 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<br>CAS: 64-17-5<br>EC: 200-578-6               | LC50          | 11000 mg/L (96 h) | Alburnus alburnus      |
|                                                        | EC50          | 9268 mg/L (48 h)  | Daphnia magna          |
|                                                        | EC50          | 1450 mg/L (192 h) | Microcystis aeruginosa |
| potassium hydroxide<br>CAS: 1310-58-3<br>EC: 215-181-3 | LC50          | 80 mg/L (48 h)    | Gambusia affinis       |
|                                                        | EC50          | Not relevant      |                        |
|                                                        | EC50          | Not relevant      |                        |

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### SECTION 12: ECOLOGICAL INFORMATION (continued)

| Identification                                                                         | Concentration             | Species                         | Genus      |
|----------------------------------------------------------------------------------------|---------------------------|---------------------------------|------------|
| 2-[2-(dodecyloxy)ethoxy]ethanol<br>CAS: 3055-93-4<br>EC: 221-279-7                     | LC50 >0.1 - 1 mg/L (96 h) |                                 | Fish       |
|                                                                                        | EC50 >0.1 - 1 mg/L (48 h) |                                 | Crustacean |
|                                                                                        | EC50 >0.1 - 1 mg/L (72 h) |                                 | Algae      |
| p-phenylenediamine<br>CAS: 106-50-3<br>EC: 203-404-7                                   | LC50 0,5 mg/L (96 h)      | Leuciscus idus                  | Fish       |
|                                                                                        | EC50 Not relevant         |                                 |            |
|                                                                                        | EC50 Not relevant         |                                 |            |
| Cetrimonium chloride<br>CAS: 112-02-7<br>EC: 203-928-6                                 | LC50 0,1 mg/L (96 h)      | Lepomis macrochirus             | Fish       |
|                                                                                        | EC50 0,012 mg/L (48 h)    | Daphnia magna                   | Crustacean |
|                                                                                        | EC50 Not relevant         |                                 |            |
| 2-(2,4-diaminophenoxy)ethanol dihydrochloride<br>CAS: 66422-95-5<br>EC: 266-357-1      | LC50 400 mg/L (96 h)      | Danio rerio                     | Fish       |
|                                                                                        | EC50 6,49 mg/L (48 h)     | Daphnia magna                   | Crustacean |
|                                                                                        | EC50 37,4 mg/L (72 h)     | Pseudokirchneriella subcapitata | Algae      |
| resorcinol<br>CAS: 108-46-3<br>EC: 203-585-2                                           | LC50 29,5 mg/L (96 h)     | Pimephales promelas             | Fish       |
|                                                                                        | EC50 1 mg/L (48 h)        | Daphnia magna                   | Crustacean |
|                                                                                        | EC50 Not relevant         |                                 |            |
| Alcohols, C12-13, ethoxylated<br>CAS: 66455-14-9<br>EC: 500-165-3                      | LC50 Not relevant         |                                 |            |
|                                                                                        | EC50 Not relevant         |                                 |            |
|                                                                                        | EC50 0,282 mg/L (72 h)    | Pseudokirchneriella subcapitata | Algae      |
| 2-(1,3-benzodioxol-5-ylamino)ethanol hydrochloride<br>CAS: 94158-14-2<br>EC: 303-085-5 | LC50 >1 - 10 mg/L (96 h)  |                                 | Fish       |
|                                                                                        | EC50 >1 - 10 mg/L (48 h)  |                                 | Crustacean |
|                                                                                        | EC50 >1 - 10 mg/L (72 h)  |                                 | Algae      |

#### Chronic toxicity:

| Identification                                                                 | Concentration     | Species             | Genus      |
|--------------------------------------------------------------------------------|-------------------|---------------------|------------|
| ethanol<br>CAS: 64-17-5 EC: 200-578-6                                          | NOEC 250 mg/L     | Danio rerio         | Fish       |
|                                                                                | NOEC 2 mg/L       | Ceriodaphnia dubia  | Crustacean |
| p-phenylenediamine<br>CAS: 106-50-3 EC: 203-404-7                              | NOEC Not relevant |                     |            |
|                                                                                | NOEC 0,00501 mg/L | Daphnia magna       | Crustacean |
| Cetrimonium chloride<br>CAS: 112-02-7 EC: 203-928-6                            | NOEC 0,2737 mg/L  | Pimephales promelas | Fish       |
|                                                                                | NOEC 0,0068 mg/L  | Daphnia magna       | Crustacean |
| 2-(2,4-diaminophenoxy)ethanol dihydrochloride<br>CAS: 66422-95-5 EC: 266-357-1 | NOEC Not relevant |                     |            |
|                                                                                | NOEC 0,43 mg/L    | Daphnia magna       | Crustacean |
| resorcinol<br>CAS: 108-46-3 EC: 203-585-2                                      | NOEC Not relevant |                     |            |
|                                                                                | NOEC 0,172 mg/L   | Daphnia magna       | Crustacean |

#### 12.2 Persistence and degradability:

##### Substance-specific information:

| Identification                                                                         | Degradability         | Biodegradability       |
|----------------------------------------------------------------------------------------|-----------------------|------------------------|
| ethanol<br>CAS: 64-17-5<br>EC: 200-578-6                                               | BOD5 Not relevant     | Concentration 100 mg/L |
|                                                                                        | COD Not relevant      | Period 14 days         |
|                                                                                        | BOD5/COD Not relevant | % Biodegradable 89 %   |
| p-phenylenediamine<br>CAS: 106-50-3<br>EC: 203-404-7                                   | BOD5 Not relevant     | Concentration 100 mg/L |
|                                                                                        | COD Not relevant      | Period 28 days         |
|                                                                                        | BOD5/COD Not relevant | % Biodegradable 5 %    |
| 2-(2,4-diaminophenoxy)ethanol dihydrochloride<br>CAS: 66422-95-5<br>EC: 266-357-1      | BOD5 Not relevant     | Concentration 30 mg/L  |
|                                                                                        | COD Not relevant      | Period 28 days         |
|                                                                                        | BOD5/COD Not relevant | % Biodegradable 0 %    |
| 2-(1,3-benzodioxol-5-ylamino)ethanol hydrochloride<br>CAS: 94158-14-2<br>EC: 303-085-5 | BOD5 Not relevant     | Concentration 25 mg/L  |
|                                                                                        | COD Not relevant      | Period 28 days         |
|                                                                                        | BOD5/COD Not relevant | % Biodegradable 5 %    |

#### 12.3 Bioaccumulative potential:

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### SECTION 12: ECOLOGICAL INFORMATION (continued)

#### Substance-specific information:

| Identification                                                                         | Bioaccumulation potential |       |
|----------------------------------------------------------------------------------------|---------------------------|-------|
| ethanol<br>CAS: 64-17-5<br>EC: 200-578-6                                               | BCF                       | 3     |
|                                                                                        | Pow Log                   | -0.31 |
|                                                                                        | Potential                 | Low   |
| p-phenylenediamine<br>CAS: 106-50-3<br>EC: 203-404-7                                   | BCF                       | 0.3   |
|                                                                                        | Pow Log                   | -0.3  |
|                                                                                        | Potential                 | Low   |
| Cetrimonium chloride<br>CAS: 112-02-7<br>EC: 203-928-6                                 | BCF                       | 162   |
|                                                                                        | Pow Log                   | 3.21  |
|                                                                                        | Potential                 | High  |
| 2-(2,4-diaminophenoxy)ethanol dihydrochloride<br>CAS: 66422-95-5<br>EC: 266-357-1      | BCF                       |       |
|                                                                                        | Pow Log                   | -0.98 |
|                                                                                        | Potential                 |       |
| resorcinol<br>CAS: 108-46-3<br>EC: 203-585-2                                           | BCF                       | 3     |
|                                                                                        | Pow Log                   | 0.8   |
|                                                                                        | Potential                 | Low   |
| 2-(1,3-benzodioxol-5-ylamino)ethanol hydrochloride<br>CAS: 94158-14-2<br>EC: 303-085-5 | BCF                       |       |
|                                                                                        | Pow Log                   | 0.41  |
|                                                                                        | Potential                 |       |

#### 12.4 Mobility in soil:

| Identification                                                                         | Absorption/desorption |                          | Volatility |                                 |
|----------------------------------------------------------------------------------------|-----------------------|--------------------------|------------|---------------------------------|
| ethanol<br>CAS: 64-17-5<br>EC: 200-578-6                                               | Koc                   | 1                        | Henry      | 4,61E-1 Pa·m <sup>3</sup> /mol  |
|                                                                                        | Conclusion            | Very High                | Dry soil   | Yes                             |
|                                                                                        | Surface tension       | 2,339E-2 N/m (25 °C)     | Moist soil | Yes                             |
| p-phenylenediamine<br>CAS: 106-50-3<br>EC: 203-404-7                                   | Koc                   | 16                       | Henry      | 6,789E-5 Pa·m <sup>3</sup> /mol |
|                                                                                        | Conclusion            | Very High                | Dry soil   | No                              |
|                                                                                        | Surface tension       | 1,754E-2 N/m (331,35 °C) | Moist soil | No                              |
| Cetrimonium chloride<br>CAS: 112-02-7<br>EC: 203-928-6                                 | Koc                   | 220000                   | Henry      | 2,938E-5 Pa·m <sup>3</sup> /mol |
|                                                                                        | Conclusion            | Immobile                 | Dry soil   | No                              |
|                                                                                        | Surface tension       | Not relevant             | Moist soil | No                              |
| 2-(2,4-diaminophenoxy)ethanol dihydrochloride<br>CAS: 66422-95-5<br>EC: 266-357-1      | Koc                   | 17.8                     | Henry      | Not relevant                    |
|                                                                                        | Conclusion            | Very High                | Dry soil   | Not relevant                    |
|                                                                                        | Surface tension       | Not relevant             | Moist soil | Not relevant                    |
| resorcinol<br>CAS: 108-46-3<br>EC: 203-585-2                                           | Koc                   | 10                       | Henry      | 1,001E-5 Pa·m <sup>3</sup> /mol |
|                                                                                        | Conclusion            | High                     | Dry soil   | No                              |
|                                                                                        | Surface tension       | 1,915E-2 N/m (318,43 °C) | Moist soil | No                              |
| 2-(1,3-benzodioxol-5-ylamino)ethanol hydrochloride<br>CAS: 94158-14-2<br>EC: 303-085-5 | Koc                   | 14.1                     | Henry      | Not relevant                    |
|                                                                                        | Conclusion            | Very High                | Dry soil   | Not relevant                    |
|                                                                                        | Surface tension       | Not relevant             | 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.

#### 12.7 Other adverse effects:

Not described

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### 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                                  |

#### 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:** UN2920

**14.2 UN proper shipping name:** CORROSIVE LIQUID, FLAMMABLE, N.O.S. (potassium hydroxide; ethanol)

**14.3 Transport hazard class(es):** 8

Labels: 8, 3

**14.4 Packing group:** II

**14.5 Environmental hazards:** No

#### 14.6 Special precautions for user

Special regulations: 274

Tunnel restriction code: D/E

Physico-Chemical properties: see section 9

Limited quantities: 1 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:

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**SECTION 14: TRANSPORT INFORMATION (continued)**

- 14.1 UN number or ID number:** UN2920
- 14.2 UN proper shipping name:** CORROSIVE LIQUID, FLAMMABLE, N.O.S. (potassium hydroxide; ethanol)
- 14.3 Transport hazard class(es):** 8
- Labels:** 8, 3
- 14.4 Packing group:** II
- 14.5 Marine pollutant:** No
- 14.6 Special precautions for user**
- Special regulations: 274
- EmS Codes: F-E, S-C
- Physico-Chemical properties: see section 9
- Limited quantities: 1 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:



- 14.1 UN number or ID number:** UN2920
- 14.2 UN proper shipping name:** CORROSIVE LIQUID, FLAMMABLE, N.O.S. (potassium hydroxide; ethanol)
- 14.3 Transport hazard class(es):** 8
- Labels:** 8, 3
- 14.4 Packing group:** II
- 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:**

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#### **SECTION 15: REGULATORY INFORMATION (continued)**

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:**

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H412: Harmful to aquatic life with long lasting effects.

H317: May cause an allergic skin reaction.

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.

Acute Tox. 3: H311 - Toxic in contact with skin.

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.

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

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

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.

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

STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure.

##### **Classification procedure:**

Skin Corr. 1B: Calculation method

Eye Dam. 1: Calculation method

Aquatic Chronic 3: Calculation method

Skin Sens. 1A: 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>

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#### **SECTION 16: OTHER INFORMATION (continued)**

##### **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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