

## Safety data sheet

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

**PF028371\_IT21**

**CI027711\_IT21**

### **Color Rhapsody 10 Permanent Cream 4NB-4.01 Medium Natural Ash Brown**

Printing: 15/11/2024



Date of compilation: 03/05/2024

Version: 1

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

- 1.1 Product identifier:** PF028371\_IT21  
CI027711\_IT21  
Color Rhapsody 10 Permanent Cream 4NB-4.01 Medium Natural Ash Brown
- Other means of identification:**  
Not relevant
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses: HAIR COLOR TINT  
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  
Skin Corr. 1B: Skin corrosion, Category 1B, H314  
Skin Sens. 1: Sensitisation, skin, Category 1, 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.  
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.  
Skin Sens. 1: 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.  
P264: Wash thoroughly after handling.  
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 (R\*,R\*)-α,4-dimethyl-α-(4-methyl-3-pentenyl)cyclohex-3-ene-1-methanol, 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts, 2-(2,4-diaminophenoxy)ethanol dihydrochloride.
- Substances that contribute to the classification**

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## SECTION 2: HAZARDS IDENTIFICATION (continued)

potassium hydroxide (CAS: 1310-58-3); 1-Hexadecanol, phosphate, potassium salt (CAS: 84861-79-0); p-phenylenediamine (CAS: 106-50-3)

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

30,7 % (oral), 40,04 % (dermal), 41,14 % (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 with Ammonia 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: 1310-58-3 EC: 215-181-3 Index: 019-002-00-8 REACH: 01-2119487136-33-XXXX	<b>potassium hydroxide<sup>(1)</sup></b> ATP CLP00		2,5 - <10 %
	Regulation 1272/2008	Acute Tox. 4: H302; Skin Corr. 1A: H314 - Danger 	
CAS: 3055-94-5 EC: 221-280-2 Index: Non-applicable REACH: Non-applicable	<b>2-[2-[2-(dodeciloxy)etoxi]etoxi]etanol<sup>(1)</sup></b> Self-classified		1 - <2,5 %
	Regulation 1272/2008	Eye Irrit. 2: H319 - Warning 	
CAS: 84861-79-0 EC: 284-374-2 Index: Non-applicable REACH: Non-applicable	<b>1-Hexadecanol, phosphate, potassium salt<sup>(1)</sup></b> Self-classified		1 - <2,5 %
	Regulation 1272/2008	Eye Dam. 1: H318 - Danger 	
CAS: 106-50-3 EC: 203-404-7 Index: 612-028-00-6 REACH: 01-2119471483-36-XXXX	<b>p-phenylenediamine<sup>(1)</sup></b> ATP CLP00		1 - <2,5 %
	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: 108-46-3 EC: 203-585-2 Index: 604-010-00-1 REACH: 01-2119480136-40-XXXX	<b>resorcinol<sup>(1)</sup></b> ATP CLP00		1 - <2,5 %
	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Acute 1: H400; Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning 	
CAS: 60-00-4 EC: 200-449-4 Index: 607-429-00-8 REACH: 01-2119486399-18-XXXX	<b>edetic acid<sup>(1)</sup></b> ATP ATP01		1 - <2,5 %
	Regulation 1272/2008	Eye Irrit. 2: H319 - Warning 	
CAS: 61789-40-0 EC: 263-058-8 Index: Non-applicable REACH: 01-2120770501-61-XXXX	<b>1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts<sup>(1)</sup></b> Self-classified		<1 %
	Regulation 1272/2008	Aquatic Chronic 3: H412; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning 	
CAS: 66455-14-9 EC: 500-165-3 Index: Non-applicable REACH: 01-2119488045-35-XXXX	<b>Alcohols, C12-13, ethoxylated<sup>(1)</sup></b> Self-classified		<1 %
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 3: H412 - Warning 	
CAS: 66422-95-5 EC: 266-357-1 Index: Non-applicable REACH: 01-2120011817-60-XXXX	<b>2-(2,4-diaminophenoxy)ethanol dihydrochloride<sup>(1)</sup></b> Self-classified		<1 %
	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Chronic 2: H411; Eye Dam. 1: H318; Skin Sens. 1B: H317 - Danger 	

<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: 515-69-5 EC: 208-205-9 Index: Non-applicable REACH: Non-applicable	(R*,R*)-α,4-dimethyl-α-(4-methyl-3-pentenyl)cyclohex-3-ene-1-methanol <sup>(1)</sup> Self-classified Regulation 1272/2008 Aquatic Chronic 2: H411; Skin Sens. 1: H317 - 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	Specific concentration limit
potassium hydroxide CAS: 1310-58-3 EC: 215-181-3	% (w/w) >=5: Skin Corr. 1A - H314 2<= % (w/w) <5: Skin Corr. 1B - H314 0,5<= % (w/w) <2: Skin Irrit. 2 - H315 % (w/w) >=2: Eye Dam. 1 - H318 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
p-phenylenediamine CAS: 106-50-3 EC: 203-404-7	LD50 oral 137 mg/kg LD50 dermal 300 mg/kg (ATEi) LC50 inhalation 3 mg/L (ATEi)	Rat
resorcinol CAS: 108-46-3 EC: 203-585-2	LD50 oral 310 mg/kg LD50 dermal Not relevant LC50 inhalation Not relevant	Rat
potassium hydroxide CAS: 1310-58-3 EC: 215-181-3	LD50 oral 388 mg/kg LD50 dermal Not relevant LC50 inhalation Not relevant	Rat
2-(2,4-diaminophenoxy)ethanol dihydrochloride CAS: 66422-95-5 EC: 266-357-1	LD50 oral 1000 mg/kg LD50 dermal Not relevant 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:

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:

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

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

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

Not relevant

#### **SECTION 5: FIREFIGHTING MEASURES**

##### **5.1 Extinguishing media:**

###### **Suitable extinguishing media:**

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

###### **Unsuitable extinguishing media:**

Non-applicable

##### **5.2 Special hazards arising from the substance or mixture:**

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

##### **5.3 Advice for firefighters:**

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/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. Personal protection equipment must be used against potential contact with the spilled product (See section 8). Evacuate the area and keep out those who do not have protection.

###### **For emergency responders:**

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

##### **6.2 Environmental precautions:**

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

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### SECTION 7: HANDLING AND STORAGE (continued)

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

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

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

#### C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

#### D.- Technical recommendations to prevent environmental risks

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.: 40 °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		
resorcinol <sup>(1)</sup> CAS: 108-46-3 EC: 203-585-2		IOELV (8h)	10 ppm	45 mg/m <sup>3</sup>
		IOELV (STEL)		

<sup>(1)</sup> Skin

#### DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
potassium hydroxide CAS: 1310-58-3 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 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 <sup>3</sup>	Not relevant
resorcinol CAS: 108-46-3 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>
edetic acid CAS: 60-00-4 EC: 200-449-4	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
	Inhalation	Not relevant	3 mg/m <sup>3</sup>	Not relevant	1,5 mg/m <sup>3</sup>
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts CAS: 61789-40-0 EC: 263-058-8	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	2,33 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	8,22 mg/m <sup>3</sup>	Not relevant

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

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
2-(2,4-diaminophenoxy)ethanol dihydrochloride CAS: 66422-95-5 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

#### DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
potassium hydroxide CAS: 1310-58-3 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 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 <sup>3</sup>	Not relevant
resorcinol CAS: 108-46-3 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>
edetic acid CAS: 60-00-4 EC: 200-449-4	Oral	Not relevant	Not relevant	25 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
	Inhalation	Not relevant	1,2 mg/m <sup>3</sup>	Not relevant	0,6 mg/m <sup>3</sup>
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts CAS: 61789-40-0 EC: 263-058-8	Oral	Not relevant	Not relevant	0,833 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	0,833 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	1,45 mg/m <sup>3</sup>	Not relevant

#### PNEC:

Identification					
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	
resorcinol CAS: 108-46-3 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	
edetic acid CAS: 60-00-4 EC: 200-449-4	STP	43 mg/L	Fresh water	2,2 mg/L	
	Soil	0,72 mg/kg	Marine water	0,22 mg/L	
	Intermittent	1,2 mg/L	Sediment (Fresh water)	Not relevant	
	Oral	Not relevant	Sediment (Marine water)	Not relevant	
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts CAS: 61789-40-0 EC: 263-058-8	STP	300 mg/L	Fresh water	0,0032 mg/L	
	Soil	0,0419 mg/kg	Marine water	0,00032 mg/L	
	Intermittent	0,02 mg/L	Sediment (Fresh water)	0,219 mg/kg	
	Oral	Not relevant	Sediment (Marine water)	0,0219 mg/kg	
2-(2,4-diaminophenoxy)ethanol dihydrochloride CAS: 66422-95-5 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	

#### 8.2 Exposure controls:

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

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

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: Linear low-density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 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

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Face shield	 CAT II	EN 166:2002 UNE-EN ISO 18526-1 al 4:2020 UNE-EN ISO 18526-1 al 4:2020 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	Disposable clothing for protection against chemical risks	 CAT III	EN 13034:2005+A1:2009 UNE-EN ISO 18526-1 al 4:2020 EN ISO 13982-1:2005/A1:2011 EN ISO 6529:2013 EN ISO 6530:2005 EN 464:1995	For professional use only. Clean periodically according to the manufacturer's instructions.
 Mandatory foot protection	Safety footwear for protection against chemical risk	 CAT III	EN ISO 20345:2022 EN 13832-1:2019	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:

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

V.O.C. (Supply):	0 % weight
V.O.C. density at 20 °C:	0,01 kg/m <sup>3</sup> (0,01 g/L)
Average carbon number:	10
Average molecular weight:	136,2 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:	Cream
Colour:	Ivory
Odour:	Characteristic
Odour threshold:	Not relevant *

##### Volatility:

Boiling point at atmospheric pressure:	100 - 1320 °C
Vapour pressure at 20 °C:	2299 Pa
Vapour pressure at 50 °C:	12114,06 Pa (12,11 kPa)
Evaporation rate at 20 °C:	Not relevant *

##### Product description:

Density at 20 °C:	1073 kg/m <sup>3</sup>
Relative density at 20 °C:	0,975 - 1,015
Dynamic viscosity at 20 °C:	Not relevant *
Kinematic viscosity at 20 °C:	Not relevant *
Kinematic viscosity at 40 °C:	>20,5 mm <sup>2</sup> /s
Concentration:	Not relevant *
pH:	9,8 - 10,8
Vapour density at 20 °C:	Not relevant *
Partition coefficient n-octanol/water 20 °C:	Not relevant *
Solubility in water at 20 °C:	Not relevant *
Solubility properties:	Not relevant *
Decomposition temperature:	Not relevant *
Melting point/freezing point:	Not relevant *

##### Flammability:

Flash Point:	Non Flammable (>60 °C)
Flammability (solid, gas):	Not relevant *
Autoignition temperature:	225 °C
Lower flammability limit:	Not relevant *
Upper flammability limit:	Not relevant *

##### Particle characteristics:

Median equivalent diameter:	Non-applicable
-----------------------------	----------------

#### 9.2 Other information:

\*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)****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	Not applicable	Not applicable	Not applicable

**10.5 Incompatible materials:**

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Precaution	Not applicable	Avoid alkalis or strong bases

**10.6 Hazardous decomposition products:**See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<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):

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### SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: 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: Sodium sulphite (3); Eugenol (3); Coumarin (3); p-phenylenediamine (3); resorcinol (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, 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)	
resorcinol CAS: 108-46-3 EC: 203-585-2	LD50 oral	310 mg/kg (ATEi)	Rat
	LD50 dermal	2830 mg/kg	Rabbit
	LC50 inhalation		
potassium hydroxide CAS: 1310-58-3 EC: 215-181-3	LD50 oral	388 mg/kg (ATEi)	Rat
	LD50 dermal		
	LC50 inhalation		
edetic acid CAS: 60-00-4 EC: 200-449-4	LD50 oral	2581 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation		
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts CAS: 61789-40-0 EC: 263-058-8	LD50 oral	>5000 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation		

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### SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Identification	Acute toxicity		Genus
2-(2,4-diaminophenoxy)ethanol dihydrochloride CAS: 66422-95-5 EC: 266-357-1	LD50 oral	1000 mg/kg	Rat
	LD50 dermal	45450 mg/kg	Rat
	LC50 inhalation		

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

ATE mix		Ingredient(s) of unknown toxicity
Oral	3123,68 mg/kg (Calculation method)	30,7 %
Dermal	13082,84 mg/kg (Calculation method)	40,04 %
Inhalation	128,43 mg/L (4 h) (Calculation method)	41,14 %

#### 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
potassium hydroxide CAS: 1310-58-3 EC: 215-181-3	LC50	80 mg/L (48 h)	Gambusia affinis	Fish
	EC50	Not relevant		
	EC50	Not relevant		
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		
resorcinol CAS: 108-46-3 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		
edetic acid CAS: 60-00-4 EC: 200-449-4	LC50	41 mg/L (96 h)	Lepomis macrochirus	Fish
	EC50	610 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	1,01 mg/L (72 h)	Scenedesmus subspicatus	Algae
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts CAS: 61789-40-0 EC: 263-058-8	LC50	Not relevant		
	EC50	Not relevant		
	EC50	30 mg/L (72 h)	N/A	Algae
Alcohols, C12-13, ethoxylated CAS: 66455-14-9 EC: 500-165-3	LC50	Not relevant		
	EC50	Not relevant		
	EC50	0,282 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
2-(2,4-diaminophenoxy)ethanol dihydrochloride CAS: 66422-95-5 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
(R*,R*)-α,4-dimethyl-α-(4-methyl-3-pentenyl)cyclohex-3-ene-1-methanol CAS: 515-69-5 EC: 208-205-9	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:

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### SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Concentration	Species	Genus
p-phenylenediamine	NOEC	Not relevant	
CAS: 106-50-3 EC: 203-404-7	NOEC	0,00501 mg/L	Daphnia magna
resorcinol	NOEC	Not relevant	
CAS: 108-46-3 EC: 203-585-2	NOEC	0,172 mg/L	Daphnia magna
edetic acid	NOEC	25,7 mg/L	Danio rerio
CAS: 60-00-4 EC: 200-449-4	NOEC	25 mg/L	Daphnia magna
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	NOEC	0,16 mg/L	Oncorhynchus mykiss
CAS: 61789-40-0 EC: 263-058-8	NOEC	0,9 mg/L	Daphnia magna
2-(2,4-diaminophenoxy)ethanol dihydrochloride	NOEC	Not relevant	
CAS: 66422-95-5 EC: 266-357-1	NOEC	0,43 mg/L	Daphnia magna

#### 12.2 Persistence and degradability:

##### Substance-specific information:

Identification	Degradability	Biodegradability
p-phenylenediamine	BOD5	Not relevant
CAS: 106-50-3	COD	Not relevant
EC: 203-404-7	BOD5/COD	Not relevant
2-(2,4-diaminophenoxy)ethanol dihydrochloride	BOD5	Not relevant
CAS: 66422-95-5	COD	Not relevant
EC: 266-357-1	BOD5/COD	Not relevant

#### 12.3 Bioaccumulative potential:

##### Substance-specific information:

Identification	Bioaccumulation potential
p-phenylenediamine	BCF
CAS: 106-50-3	Pow Log
EC: 203-404-7	Potential
resorcinol	BCF
CAS: 108-46-3	Pow Log
EC: 203-585-2	Potential
edetic acid	BCF
CAS: 60-00-4	Pow Log
EC: 200-449-4	Potential
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	BCF
CAS: 61789-40-0	Pow Log
EC: 263-058-8	Potential
2-(2,4-diaminophenoxy)ethanol dihydrochloride	BCF
CAS: 66422-95-5	Pow Log
EC: 266-357-1	Potential

#### 12.4 Mobility in soil:

Identification	Absorption/desorption	Volatility
p-phenylenediamine	Koc	Henry
CAS: 106-50-3	Conclusion	Dry soil
EC: 203-404-7	Surface tension	Moist soil
resorcinol	Koc	Henry
CAS: 108-46-3	Conclusion	Dry soil
EC: 203-585-2	Surface tension	Moist soil

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### SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Absorption/desorption		Volatility	
edetic acid CAS: 60-00-4 EC: 200-449-4	Koc	1046	Henry	OE+0 Pa·m <sup>3</sup> /mol
	Conclusion	Low	Dry soil	No
	Surface tension	Not relevant	Moist soil	No
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts CAS: 61789-40-0 EC: 263-058-8	Koc	648	Henry	Not relevant
	Conclusion	Moderate	Dry soil	Not relevant
	Surface tension	Not relevant	Moist soil	Not relevant
2-(2,4-diaminophenoxy)ethanol dihydrochloride CAS: 66422-95-5 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

#### 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

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

HP14 Ecotoxic, HP4 Irritant — skin irritation and eye damage

#### Waste management (disposal and evaluation):

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

#### Regulations related to waste management:

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

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

### SECTION 14: TRANSPORT INFORMATION

#### Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023:

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### SECTION 14: TRANSPORT INFORMATION (continued)



- 14.1 UN number or ID number:** UN1760  
**14.2 UN proper shipping name:** CORROSIVE LIQUID, N.O.S. (potassium hydroxide)  
**14.3 Transport hazard class(es):** 8  
**Labels:** 8  
**14.4 Packing group:** II  
**14.5 Environmental hazards:** No  
**14.6 Special precautions for user**  
Special regulations: 274  
Tunnel restriction code: E  
Physico-Chemical properties: see section 9  
Limited quantities: 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:



- 14.1 UN number or ID number:** UN1760  
**14.2 UN proper shipping name:** CORROSIVE LIQUID, N.O.S. (potassium hydroxide)  
**14.3 Transport hazard class(es):** 8  
**Labels:** 8  
**14.4 Packing group:** II  
**14.5 Marine pollutant:** No  
**14.6 Special precautions for user**  
Special regulations: 274  
EmS Codes: F-A, S-B  
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:** UN1760  
**14.2 UN proper shipping name:** CORROSIVE LIQUID, N.O.S. (potassium hydroxide)  
**14.3 Transport hazard class(es):** 8  
**Labels:** 8  
**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:**

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

- Article 95, REGULATION (EU) No 528/2012: Not relevant
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- Regulation (EU) No 2024/590, about substances that deplete the ozone layer: Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

##### **Seveso III:**

Not relevant

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

Shall not be used in:

- 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:**

- H314: Causes severe skin burns and eye damage.
- H318: Causes serious eye damage.
- H317: May cause an allergic skin reaction.
- H412: Harmful to aquatic life with long lasting effects.

##### **Texts of the legislative phrases mentioned in section 3:**

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

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

- Acute Tox. 3: H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled.
- Acute Tox. 4: H302 - Harmful if swallowed.
- Aquatic Acute 1: H400 - Very toxic to aquatic life.
- Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.
- Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
- Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
- Eye Dam. 1: H318 - Causes serious eye damage.
- Eye Irrit. 2: H319 - Causes serious eye irritation.
- Skin Corr. 1A: 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. 1B: H317 - May cause an allergic skin reaction.

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

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

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

##### **Advice related to training:**

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

##### **Principal bibliographical sources:**

<http://echa.europa.eu>  
<http://eur-lex.europa.eu>

##### **Abbreviations and acronyms:**

ADR: European agreement concerning the international carriage of dangerous goods by road  
IMDG: International maritime dangerous goods code  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organisation  
COD: Chemical Oxygen Demand  
BOD5: 5day biochemical oxygen demand  
BCF: Bioconcentration factor  
LD50: Lethal Dose 50  
LC50: Lethal Concentration 50  
EC50: Effective concentration 50  
LogPOW: Octanolwater partition coefficient  
Koc: Partition coefficient of organic carbon  
UFI: unique formula identifier  
IARC: International Agency for Research on Cancer

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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