

Safety data sheet
according to 2020/878/EC

Printing date 10.01.2024

Version number 7 (replaces version 6)

Revision: 10.01.2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** PURIFICA
- **UFI:** J7M0-A079-S00H-U6G7
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Life cycle stages**
 - C Consumer use
 - PW Widespread use by professional workers
- **Sector of Use**
 - SU21 Consumer uses: Private households / general public / consumers
 - SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Product category PC35** Washing and cleaning products (including solvent based products)
- **Recommended use** Car shampoo

- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 - MA-FRA S.p.A. a Socio Unico
 - Via Aquileia, 44/46
 - 20021 Baranzate (MI) ITALIA
 - Tel. +39 023569981
 - www.mafra.com
 - mafra@mafra.it
- **Informing department:**
 - E-mail: lab@mafra.it
 - info@mafra.it
- **1.4 Emergency telephone number:** In case of accident call the emergency number 112

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
 - The product is classified and labelled according to the GB CLP regulation.
- **Hazard pictograms**



GHS05

- **Signal word** Danger
- **Hazard-determining components of labelling:**
 - methanesulphonic acid
 - Amines oxide

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- Hazard statements

H314 Causes severe skin burns and eye damage.

- Precautionary statements

P102 Keep out of reach of children.

P280 Wear protective gloves / eye protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international regulation

- Additional information:

EUH208 Contains quaternary compound. May produce an allergic reaction.

- 2.3 Other hazards**- Results of PBT and vPvB assessment****- PBT:** Not applicable.**- vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****- 3.2 Mixtures****- Description:** Mixture of substances**- Dangerous components:**

CAS: 75-75-2 EINECS: 200-898-6 Reg.nr.: 01-21 19491 166-34	methanesulphonic acid ☠ Met. Corr. 1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; STOT SE 3, H335	3-5%
CAS: 147170-44-3 EC number: 931-333-8 Reg.nr.: 01-2119489410-39	Cocamidopropyl Betaine ☠ Eye Dam. 1, H318; Aquatic Chronic 3, H412 Specific concentration limits: Eye Dam. 1; H318: C ≥ 10 % Eye Irrit. 2; H319: 4 % ≤ C < 10 %	3-5%
CAS: 111-76-2 EINECS: 203-905-0 Reg.nr.: 01-2119475108-36	2-butoxyethanol ☠ Acute Tox. 3, H331; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319 ATE: LD50 oral: 1,200 mg/Kg	1-<3%
CAS: 308062-28-4 EC number: 931-292-6 Reg.nr.: 01-2119490061	Amines oxide ☠ Eye Dam. 1, H318; ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315	1-<3%
CAS: 51981-21-6 EINECS: 257-573-7 Reg.nr.: 01-2119493601-38	glutamic acid, N,N-diacetic acid, tetrasodium salt ☠ Met. Corr. 1, H290	1-<3%
CAS: 784144-40-7	quaternary compound ☠ Eye Dam. 1, H318; ⚠ Skin Sens. 1, H317	<1%
CAS: 25307-17-9 EINECS: 246-807-3 Reg.nr.: 01-2119510876-35	2,2'-(octadec-9-enylimino)bisethanol ☠ Skin Corr. 1A, H314; ⚠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); ⚠ Acute Tox. 4, H302	<0.1%

- Additional information For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures****- 4.2 Most important symptoms and effects, both acute and delayed**

Sickness

No further relevant information available.

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- General information

Instantly remove any clothing soiled by the product.
No special measures required.

- After inhalation

In case of unconsciousness bring patient into stable side position for transport.
Supply fresh air; consult doctor in case of symptoms.

- After skin contact

Instantly wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.

- After eye contact

Rinse opened eye for several minutes under running water. Then consult doctor.
Use eye protection.

- After swallowing Rinse out mouth and then drink plenty of water.**- 4.3 Indication of any immediate medical attention and special treatment needed**

If swallowed, gastric irrigation
Medical supervision for at least 48 hours

SECTION 5: Firefighting measures

- 5.1 Extinguishing media**- Suitable extinguishing agents**

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
Use fire fighting measures that suit the environment.

- 5.2 Special hazards arising from the substance or mixture

Can be released in case of fire
Carbon monoxide (CO)

- 5.3 Advice for firefighters**- Protective equipment:**

Do not inhale explosion gases or combustion gases.
Protection means for respiratory tract

- Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures

Product forms slippery surface when combined with water.
Particular danger of slipping on leaked/spilled product.
Protective gloves. (EN 374)

- For non-emergency personnel

Particular danger of slipping on leaked/spilled product.
Ensure adequate ventilation
Keep away from ignition sources
Wear protective clothing.

- For emergency responders

PVC gloves
Recommended thickness of the material: ≥ 0.1 mm
Nitrile rubber, NBR

- 6.2 Environmental precautions:

Inform respective authorities in case product reaches water or sewage system.
Dilute with much water.
Do not allow to enter drainage system, surface or ground water.

- 6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose of the material collected according to regulations.

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- 6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage**- 7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Do not eat, drink or smoke while working.

- Information about protection against explosions and fires: Protect from heat.**- 7.2 Conditions for safe storage, including any incompatibilities****- Storage****- Requirements to be met by storerooms and containers: Store only in the original container.****- Information about storage in one common storage facility: Do not store together with alkalis (caustic solutions).****- Further information about storage conditions: Keep container tightly sealed.****- Class according to regulation on inflammable liquids: Void****- 7.3 Specific end use(s) No further relevant information available.****SECTION 8: Exposure controls/personal protection****- 8.1 Control parameters****- Components with limit values that require monitoring at the workplace:****111-76-2 2-butoxyethanol**WEL Short-term value: 246 mg/m³, 50 ppmLong-term value: 123 mg/m³, 25 ppm

Sk, BMGV

- DNELs**147170-44-3 Cocamidopropyl Betaine**

Oral Systemic Long-term Effects 7.5 mg/Kg bw/day (Consumers)

Dermal Systemic long-term effects 12.5 mg/Kg bw/day (Industrial Workers)

7.5 mg/Kg bw/day (Consumers)

Inhalative Systemic long-term effects 44 mg/m³ (Industrial Workers)13.4 mg/m³ (Consumers)**111-76-2 2-butoxyethanol**

Oral Systemic Long-term Effects 6.3 mg/Kg bw/day (Consumers)

Systemic short-term effects 26.7 mg/m³ (Consumers)

Dermal Systemic long-term effects 125 mg/Kg bw/day (Industrial Workers)

75 mg/Kg bw/day (Consumers)

Systemic Short-term Effects 89 mg/Kg bw/day (Industrial Workers)

89 mg/Kg bw/day (Consumers)

Inhalative Local long-term effects 67.5 mg/m³ (Industrial Workers)40.5 mg/m³ (Consumers)Local short-term effects 246 mg/m³ (Industrial Workers)147 mg/m³ (Consumers)Systemic long-term effects 98 mg/m³ (Industrial Workers)59 mg/m³ (Consumers)Systemic Short-term Effects 1,091 mg/m³ (Industrial Workers)

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		426 mg/m ³ (Consumers)
308062-28-4 Amines oxide		
Oral	Systemic Long-term Effects	0.44 mg/Kg bw/day (Consumers)
Dermal	Systemic long-term effects	11 mg/Kg bw/day (Industrial Workers) 5.5 mg/Kg bw/day (Consumers)
Inhalative	Systemic long-term effects	6.2 mg/m ³ (Industrial Workers) 1.53 mg/m ³ (Consumers)
51981-21-6 glutamic acid, N,N-diacetic acid, tetrasodium salt		
Oral	Systemic Long-term Effects	1.5 mg/Kg bw/day (Consumers)
Dermal	Systemic long-term effects	15,000 mg/Kg bw/day (Industrial Workers) 7,500 mg/Kg bw/day (Consumers)
Inhalative	Systemic long-term effects	7.3 mg/m ³ (Industrial Workers) 1.8 mg/m ³ (Consumers)
5329-14-6 sulphamidic acid		
Oral	Systemic Long-term Effects	5 mg/Kg bw/day (Consumers)
Dermal	Systemic long-term effects	10 mg/Kg bw/day (Industrial Workers) 5 mg/Kg bw/day (Consumers)
Inhalative	Systemic long-term effects	70.5 mg/m ³ (Industrial Workers) 17.4 mg/m ³ (Consumers)
69011-36-5 Isotridecyl alcohol polyoxyethylene ether		
Dermal	Systemic long-term effects	2,080 mg/Kg bw/day (Industrial Workers)
Inhalative	Systemic long-term effects	294 mg/m ³ (Industrial Workers)

- PNECs**147170-44-3 Cocamidopropyl Betaine**

PNEC STP	3,000 mg/L (STP)
Soil	0.8 mg/Kg (Soil)
Soft Water	0.013 mg/L (Water)
Sea water	0.001 mg/L (Water)
Sediment (soft water)	1 mg/Kg (Water)
Sediment (sea water)	0.1 mg/Kg (Soil)

111-76-2 2-butoxyethanol

PNEC STP	463 mg/L (STP)
Soil	2.33 mg/Kg (Soil)
Soft Water	8.8 mg/L (Water)
Sea water	0.88 mg/L (Water)
Sediment (soft water)	34.6 mg/Kg (Soil)
Sediment (sea water)	3.46 mg/Kg (Soil)
Occasional Emission	26.4 mg/L (Water)

308062-28-4 Amines oxide

PNEC STP	24 mg/L (STP)
Soil	1.02 mg/Kg (Soil)
Soft Water	0.0335 mg/L (Water)
Sea water	0.00335 mg/L (Water)
Sediment (soft water)	5.24 mg/Kg (Soil)
Sediment (sea water)	0.524 mg/Kg (Soil)

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51981-21-6 glutamic acid, N,N-diacetic acid, tetrasodium salt

PNEC STP	41.2 mg/L (STP)
Soil	0.5 mg/Kg (Soil)
Soft Water	9.45 mg/L (Water)
Sea water	0.945 mg/L (Water)

5329-14-6 sulphamidic acid

PNEC STP	20 mg/L (STP)
Soil	5 mg/Kg (Soil)
Soft Water	1.8 mg/L (Water)
Sea water	0.84 mg/L (Water)
Sediment (soft water)	8.36 mg/Kg (Soil)
Sediment (sea water)	0.0173 mg/Kg (Soil)

69011-36-5 Isotridecyl alcohol polyoxyethylene ether

PNEC STP	1.4 mg/L (STP)
Soil	0.1 mg/Kg (Soil)
Soft Water	0.074 mg/L (Water)
Sea water	0.007 mg/L (Water)
Sediment (soft water)	0.604 mg/Kg (Soil)
Sediment (sea water)	0.06 mg/Kg (Soil)

25307-17-9 2,2'-(octadec-9-enylimino)bisethanol

Soil	mg/Kg (Soil)
Sediment (soft water)	mg/Kg (Soil)
Sediment (sea water)	mg/Kg (Soil)

- Ingredients with biological limit values:**111-76-2 2-butoxyethanol**

BMGV	240 mmol/mol creatinine
	Medium: urine
	Sampling time: post shift
	Parameter: butoxyacetic acid

- **Additional information:** The lists that were valid during the compilation were used as basis.

- 8.2 Exposure controls

- **Appropriate engineering controls** No further data; see section 7.

- **Individual protection measures, such as personal protective equipment**

- General protective and hygienic measures

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

- **Breathing equipment:** Not required.

- Hand protection

Protective gloves. (EN 374)

Acid resistant gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Material of gloves

PVC gloves

Recommended thickness of the material: ≥ 0.1 mm

Nitrile rubber, NBR

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- Penetration time of glove material

For the mixture of chemicals mentioned below the penetration time has to be at least 30 minutes (Permeation according to EN 16523-1:2015: Level 2).

- Eye/face protection

Tightly sealed safety glasses.

- Body protection: Acid resistant protective clothing**- Environmental exposure controls**

Disposal must be made according to official regulations.

Dispose of packaging according to regulations on the disposal of packagings.

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties**- General Information**

- Physical state	Fluid
- Colour:	Orange
- Odour:	Pleasant
- Odour threshold:	Not determined.
- Melting point/freezing point:	Not determined
- Boiling point or initial boiling point and boiling range	100 °C
- Flammability	Not applicable.
- Lower and upper explosion limit	
- Lower:	Not determined.
- Upper:	Not determined.
- Flash point:	Not applicable
- Auto-ignition temperature:	240 °C
- Decomposition temperature:	Not determined.
- pH at 20 °C	<2
- Viscosity:	
- Kinematic viscosity	Not determined.
- dynamic:	Not determined.
- Solubility	
- Water:	Fully miscible
- Partition coefficient n-octanol/water (log value)	Not determined.
- Vapour pressure at 20 °C:	23 hPa
- Density and/or relative density	
- Density at 20 °C	1.05 g/cm ³
- Relative density	Not determined.
- Vapour density	Not determined.

- 9.2 Other information

- Appearance:	
- Form:	Liquid
- Important information on protection of health and environment, and on safety.	
- Self-inflammability:	Product is not selfigniting.
- Explosive properties:	Product is not explosive.
- Change in condition	
- Evaporation rate	Not determined.

- Information with regard to physical hazard classes

- Explosives	Void
- Flammable gases	Void
- Aerosols	Void

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- Oxidising gases	Void
- Gases under pressure	Void
- Flammable liquids	Void
- Flammable solids	Void
- Self-reactive substances and mixtures	Void
- Pyrophoric liquids	Void
- Pyrophoric solids	Void
- Self-heating substances and mixtures	Void
- Substances and mixtures, which emit flammable gases in contact with water	Void
- Oxidising liquids	Void
- Oxidising solids	Void
- Organic peroxides	Void
- Corrosive to metals	Void
- Desensitised explosives	Void

SECTION 10: Stability and reactivity

- 10.1 Reactivity Stable under normal conditions
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions
 - Reacts with alkali (lyes)
 - Reacts with strong alkali
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: Reacts with strong alkali
- 10.6 Hazardous decomposition products: No dangerous decomposition products known

SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.

- LD/LC50 values that are relevant for classification:

147170-44-3 Cocamidopropyl Betaine

Oral	LD50	2,335 mg/Kg (Rat)
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111-76-2 2-butoxyethanol

Oral	LD50	1,200 mg/Kg (ATE)
		>2,000 mg/Kg (Rabbit)
		1,746 mg/Kg (Rat)
Dermal	LD50	>2,000 mg/Kg (Rat)

308062-28-4 Amines oxide

Oral	LD50	mg/Kg (Rat)
	NOAEL	88 mg/Kg (Rat)
Dermal	LD50	>2,000 mg/Kg (Rat)

51981-21-6 glutamic acid, N,N-diacetic acid, tetrasodium salt

Oral	LD50	>5,000 mg/Kg (Rat)
Dermal	LD50	>2,000 mg/Kg (Rat)

5329-14-6 sulphamidic acid

Oral	LD50	2,140 mg/Kg (Rat)
Dermal	LD50	>2,000 mg/Kg (Rat)

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69011-36-5 Isotridecyl alcohol polyoxyethylene ether

Oral LD50 300-2,000 mg/Kg (Rat)

Dermal LD50 >2,000 mg/Kg (Rat)

61791-14-8 Coco amina 12 EO

Oral LD50 >300-≤2,000 mg/Kg (Rat)

784144-40-7 quaternary compound

Oral LD50 >2,000-≤5,000 mg/Kg (Rat)

25307-17-9 2,2'-(octadec-9-enylimino)bisethanol

Oral LD50 300-2,000 mg/Kg (Rat)

- **Skin corrosion/irritation** Causes severe skin burns and eye damage.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information**- 12.1 Toxicity****- Aquatic toxicity:****147170-44-3 Cocamidopropyl Betaine**

LC50 (96h) 1.11 mg/L (Fish)

EC50 (72h) >1.5 mg/L (Algae)

111-76-2 2-butoxyethanol

LC50 (96h) 1,474 mg/L (Fish)

EC50 (48h) 1,550 mg/L (Daphnia)

EC50 (72h) 911 mg/L (Algae)

308062-28-4 Amines oxide

LC50 (96h) 2.67 mg/L (Fish)

EC50 (48h) 0.266 mg/L (Algae)

3.1 mg/L (Daphnia)

EC50 (96h) 2.67 mg/L (Fish)

EC50 (72h) 0.143 mg/L (Algae)

51981-21-6 glutamic acid, N,N-diacetic acid, tetrasodium salt

LC50 (96h) >100 mg/L (Fish)

EC50 (48h) >100 mg/L (Daphnia)

5329-14-6 sulphamidic acid

LC50 (96h) 70.3 mg/L (Fish)

EC50 (48h) 71.6 mg/L (Daphnia)

69011-36-5 Isotridecyl alcohol polyoxyethylene ether

LC50 (96h) 1-10 mg/L (Fish)

EC50 (48h) 1-10 mg/L (Daphnia)

EC50 (72h) 1-10 mg/L (Algae)

25307-17-9 2,2'-(octadec-9-enylimino)bisethanol

LC50 (96h) 0.1 mg/L (Fish)

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EC50 (48h) 0.043 mg/L (Daphnia)

EC50 (72h) 0.0867 mg/L (Algae)

- **12.2 Persistence and degradability** The contained surfactants are easily biodegradable
 - **12.3 Bioaccumulative potential** No further relevant information available.
 - **12.4 Mobility in soil** No further relevant information available.
 - **12.5 Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
 - **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
 - **12.7 Other adverse effects**
 - **Additional ecological information:**
 - **General notes:**
- Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralised.
The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:**
Disposal must be made according to official regulations.
Dispose of packaging according to regulations on the disposal of packagings.

SECTION 14: Transport information

- | | |
|---|-----------------|
| - 14.1 UN number or ID number | |
| - ADR, IMDG, IATA | Void |
| - 14.2 UN proper shipping name | |
| - ADR, IMDG, IATA | Void |
| - 14.3 Transport hazard class(es) | |
| - ADR, IMDG, IATA | |
| - Class | Void |
| - 14.4 Packing group | |
| - ADR, IMDG, IATA | Void |
| - 14.5 Environmental hazards: | |
| - Marine pollutant: | No |
| - 14.6 Special precautions for user | Not applicable. |
| - 14.7 Maritime transport in bulk according to IMO instruments | Not applicable. |

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SECTION 15: Regulatory information

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

- Poisons Act

- Regulated explosives precursors

None of the ingredients is listed.

- Regulated poisons

None of the ingredients is listed.

- Reportable explosives precursors

None of the ingredients is listed.

- Reportable poisons

None of the ingredients is listed.

- Directive 2012/18/EU

- Named dangerous substances - ANNEX I None of the ingredients is listed.

- National regulations

- Classification according to VbF: Void

- Technical instructions (air):

Class	Share in %
NK	3.0

- Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

- Relevant phrases

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

- Department issuing data specification sheet: Ma-Fra Laboratories

- Contact: lab@mafra.it

- Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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Safety data sheet
according to 2020/878/EC

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*ATE: Acute toxicity estimate values**Met. Corr. 1: Corrosive to metals – Category 1**Acute Tox. 4: Acute toxicity – Category 4**Acute Tox. 3: Acute toxicity – Category 3**Skin Corr. 1A: Skin corrosion/irritation – Category 1A**Skin Corr. 1B: Skin corrosion/irritation – Category 1B**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Dam. 1: Serious eye damage/eye irritation – Category 1**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2**Skin Sens. 1: Skin sensitisation – Category 1**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1**Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1**Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2**Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3***- * Data compared to the previous version altered.**

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