

**Safety data sheet**  
according to 2020/878/EC

Printing date 24.04.2024

Version number 1

Revision: 24.04.2024

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

- **1.1 Product identifier**
- **Trade name: PRELUDIO ACIDIC**
- **UFI: V1H6-V0QF-V004-403K**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Life cycle stages C Consumer use**
- **Sector of Use SU21 Consumer uses: Private households / general public / consumers**
- **Recommended use Exterior vehicle cleaner**
- **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](http://www.mafra.com)  
[mafra@mafra.it](mailto:mafra@mafra.it)
- **Informing department: [info@mafra.it](mailto: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  
L-Lactic acid (2-hydroxy propionic acid)  
phosphoric acid
- **Hazard statements**  
H314 Causes severe skin burns and eye damage.
- **Precautionary statements**  
P101 If medical advice is needed, have product container or label at hand.

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- P102 *Keep out of reach of children.*  
 P103 *Read carefully and follow all instructions.*  
 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.*  
 P310 *Immediately call a POISON CENTER/doctor.*  
 P321 *Specific treatment (see on this label).*  
 P405 *Store locked up.*  
 P501 *Dispose of contents/container in accordance with local/regional/national/international regulation*

**- 2.3 Other hazards****- Results of PBT and vPvB assessment****- PBT:**

*This substance/mixture does not contain any components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher.*

**- 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	5-<10%
CAS: 64-17-5 EINECS: 200-578-6 Reg.nr.: 01-2119457610-43	ethanol Flam. Liq. 2, H225; Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2; H319: C ≥ 50 %	5-<10%
CAS: 79-33-4 EINECS: 201-196-2 Reg.nr.: 01-2119474164-39	L-Lactic acid (2-hydroxy propionic acid) Skin Corr. 1C, H314; Eye Dam. 1, H318, EUH071	3-5%
CAS: 7664-38-2 EINECS: 231-633-2 Reg.nr.: 01-2119485924-24	phosphoric acid Skin Corr. 1B, H314 Note: B Specific concentration limits: Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 %	1-<3%
CAS: 107-21-1 EINECS: 203-473-3 Reg.nr.: 01-2119456816-28	ethane-1,2-diol Acute Tox. 4, H302	<1%

**- Regulation (EC) No 648/2004**

*non-ionic surfactants, polycarboxylates, cationic surfactants, perfumes*

&lt;5%

**- 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.*

**- General information**

*Instantly remove any clothing soiled by the product.*

*No special measures required.*

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**- 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** Use eye protection.**- After swallowing** Do not induce vomiting; instantly call for medical help.**- 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**

*CO<sub>2</sub>, 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**

*Particular danger of slipping on leaked/spilled product.*

*Protective gloves. (EN 374)*

**- For non-emergency personnel**

*Ensure adequate ventilation*

*Keep away from ignition sources*

*Wear protective clothing.*

**- For emergency responders** 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:**

*Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).*

*Dispose of the material collected according to regulations.*

**- 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**

*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.*

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- **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:** Not required.
- **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:**

##### **7664-38-2 phosphoric acid**

WEL Short-term value: 2 mg/m<sup>3</sup>  
Long-term value: 1 mg/m<sup>3</sup>

##### **107-21-1 ethane-1,2-diol**

WEL Short-term value: 104\*\* mg/m<sup>3</sup>, 40\*\* ppm  
Long-term value: 10\* 52\*\* mg/m<sup>3</sup>, 20\*\* ppm  
Sk \*particulate \*\*vapour

#### - DNELs

##### **64-17-5 ethanol**

Oral	Systemic Long-term Effects	87 mg/Kg bw/day (Consumers)
Dermal	Systemic long-term effects	343 mg/Kg bw/day (Industrial Workers) 206 mg/Kg bw/day (Consumers)
Inhalative	Local short-term effects	1,900 mg/m <sup>3</sup> (Industrial Workers)
	Systemic long-term effects	950 mg/m <sup>3</sup> (Industrial Workers) 114 mg/m <sup>3</sup> (Consumers)

##### **7664-38-2 phosphoric acid**

Oral	Systemic Long-term Effects	0.1 mg/Kg bw/day (Consumers)
Inhalative	Local long-term effects	1 mg/m <sup>3</sup> (Industrial Workers) 0.36 mg/m <sup>3</sup> (Consumers)
	Local short-term effects	2 mg/m <sup>3</sup> (Industrial Workers)
	Systemic long-term effects	10.7 mg/m <sup>3</sup> (Industrial Workers) 4.57 mg/m <sup>3</sup> (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)
	Systemic long-term effects	7.3 mg/m <sup>3</sup> (Industrial Workers) 1.8 mg/m <sup>3</sup> (Consumers)

##### **7664-93-9 sulphuric acid**

Inhalative	Local long-term effects	0.05 mg/m <sup>3</sup> (Industrial Workers)
	Local short-term effects	0.1 mg/m <sup>3</sup> (Industrial Workers)

##### **107-21-1 ethane-1,2-diol**

Dermal	Systemic long-term effects	106 mg/Kg bw/day (Industrial Workers) 53 mg/Kg bw/day (Consumers)
Inhalative	Local long-term effects	35 mg/m <sup>3</sup> (Industrial Workers)

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	Systemic Short-term Effects	7 mg/m <sup>3</sup> (Consumers) 35 mg/m <sup>3</sup> (Industrial Workers) 7 mg/m <sup>3</sup> (Consumers)
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**- PNECs****64-17-5 ethanol**

PNEC STP	580 mg/L (STP)
Soil	0.63 mg/Kg (Soil)
Soft Water	0.96 mg/L (Water)
Sea water	0.79 mg/L (Water)
Sediment (soft water)	3.6 mg/Kg (Soil)
Sediment (sea water)	2.9 mg/Kg (Soil)

**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)

**7664-93-9 sulphuric acid**

PNEC STP	8.8 mg/L (STP)
Soft Water	0.003 mg/L (Water)
Sea water	0.00025 mg/L (Water)
Sediment (soft water)	0.002 mg/Kg (Soil)
Sediment (sea water)	0.002 mg/Kg (Soil)

**107-21-1 ethane-1,2-diol**

PNEC STP	199.5 mg/L (STP)
Soil	1.53 mg/Kg (Soil)
Soft Water	10 mg/L (Water)
Sea water	1 mg/L (Water)
Sediment (soft water)	37 mg/Kg (Soil)
Sediment (sea water)	3.7 mg/Kg (Soil)

- **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)

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** Nitrile rubber, NBR

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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**- Eye/face protection**

Tightly sealed safety glasses.

**- 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**

<b>- Physical state</b>	Fluid
<b>- Colour:</b>	Green
<b>- Odour:</b>	Pleasant
<b>- Odour threshold:</b>	Not determined.
<b>- Melting point/freezing point:</b>	Not determined
<b>- Boiling point or initial boiling point and boiling range</b>	>100 °C
<b>- Flammability</b>	Not applicable.
<b>- Lower and upper explosion limit</b>	
<b>- Lower:</b>	Not determined.
<b>- Upper:</b>	Not determined.
<b>- Flash point:</b>	Not applicable
<b>- Decomposition temperature:</b>	Not determined.
<b>- pH at 20 °C</b>	<-3 pH below -3.
<b>- Viscosity:</b>	
<b>- Kinematic viscosity</b>	Not determined.
<b>- dynamic:</b>	Not determined.
<b>- Solubility</b>	
<b>- Water:</b>	Fully miscible
<b>- Partition coefficient n-octanol/water (log value)</b>	Not determined.
<b>- Vapour pressure at 20 °C:</b>	23 hPa (7732-18-5 water, distilled, conductivity or of similar purity)
<b>- Density and/or relative density</b>	
<b>- Density at 20 °C</b>	1.05 g/cm <sup>3</sup>
<b>- Relative density</b>	Not determined.
<b>- Vapour density</b>	Not determined.

**- 9.2 Other information**

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

**- Information with regard to physical hazard classes**

<b>- Explosives</b>	Void
<b>- Flammable gases</b>	Void
<b>- Aerosols</b>	Void
<b>- Oxidising gases</b>	Void
<b>- Gases under pressure</b>	Void
<b>- Flammable liquids</b>	Void

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- 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 No dangerous reactions known
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 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:

64-17-5 ethanol		
Oral	LD50	3,400 mg/Kg (Mouse) >2,000 mg/Kg (Rat)
Dermal	LD50	17,100 mg/Kg (Rabbit)
7664-38-2 phosphoric acid		
Oral	LD50	>300 mg/Kg (Rat)
Dermal	LD50	2,740 mg/Kg (Rabbit)
Inhalative	LC50	>213 mg/L (Rat)
78330-20-8 Ethoxy Alcohol C9-C11		
Oral	LD50	300-2,000 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)
7664-93-9 sulphuric acid		
Oral	LD50	2,140 mg/Kg (Rat)
68439-46-3 Ethoxy Alcohol C9-C11		
Oral	LD50	>2,000 mg/Kg (Rat)
Dermal	LD50	>2,000 mg/Kg (Rabbit)
1554325-20-0 Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride		
Oral	LD50	833 mg/Kg (Rat)

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**107-21-1 ethane-1,2-diol**

Oral	LD50	7,712 mg/Kg (Rat)
Dermal	LD50	>3,500 mg/Kg (Mouse)

- **Skin corrosion/irritation** Causes severe skin burns and eye damage.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** No sensitizing effect known.
- **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:****64-17-5 ethanol**

LC50 (4 h)	20,000 mg/L (Rat)
LC50 (96h)	13 mg/L (Fish)
EC50 (48h)	12.34 mg/L (Daphnia)

**7664-38-2 phosphoric acid**

LC50 (96h)	75.1 mg/L (Fish)
EC50 (48h)	>100 mg/L (Daphnia)
EC50 (72h)	>100 mg/L (Algae)

**78330-20-8 Ethoxy Alcohol C9-C11**

LC50 (96h)	>100 mg/L (Fish)
EC50 (48h)	>100 mg/L (Daphnia)
EC50 (72h)	>100 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)

**7664-93-9 sulphuric acid**

LC50 (4 h)	0.85 mg/L (Mouse)
LC50 (96h)	>16-<28 mg/L (Fish)
EC50 (72h)	>100 mg/L (Algae)

**68439-46-3 Ethoxy Alcohol C9-C11**

LC50 (96h)	>1-10 mg/L (Fish)
EC50 (48h)	>1-10 mg/L (Daphnia)
EC50 (72h)	>1-10 mg/L (Algae)

**1554325-20-0 Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride**

LC50 (96h)	>10-100 mg/L (Fish)
EC50 (48h)	>1-10 mg/L (Daphnia)
EC50 (72h)	>1-10 mg/L (Algae)

**107-21-1 ethane-1,2-diol**

LC50 (96h)	72,860 mg/L (Fish)
EC50 (48h)	>100 mg/L (Daphnia)
EC50 (96h)	6,500-13,000 mg/L (Algae)

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- **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.  
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.

### 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

- |                                                                                                                                                                                    |                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| - <b>14.1 UN number or ID number</b><br>- <b>ADR, IMDG, IATA</b>                                                                                                                   | UN3265                                                                                                                       |
| - <b>14.2 UN proper shipping name</b><br>- <b>ADR, IMDG, IATA</b>                                                                                                                  | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.<br>(methanesulphonic acid)                                                         |
| - <b>14.3 Transport hazard class(es)</b><br>- <b>ADR, IMDG, IATA</b>                                                                                                               | <div style="text-align: center;">  </div> |
| - <b>Class</b><br>- <b>Label</b>                                                                                                                                                   | 8 Corrosive substances.<br>8                                                                                                 |
| - <b>14.4 Packing group</b><br>- <b>ADR, IMDG, IATA</b>                                                                                                                            | III                                                                                                                          |
| - <b>14.5 Environmental hazards:</b>                                                                                                                                               | Not applicable.                                                                                                              |
| - <b>14.6 Special precautions for user</b><br>- <b>Kemler Number:</b><br>- <b>EMS Number:</b><br>- <b>Segregation groups</b><br>- <b>Stowage Category</b><br>- <b>Stowage Code</b> | Warning: Corrosive substances.<br>80<br>F-A,S-B<br>(SGG1) Acids<br>A<br>SW2 Clear of living quarters.                        |

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- <b>Segregation Code</b>	SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides
- <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
- <b>Transport/Additional information:</b>	
- <b>ADR</b>	
- <b>Limited quantities (LQ)</b>	5L
- <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
- <b>Transport category</b>	3
- <b>Tunnel restriction code</b>	E
- <b>IMDG</b>	
- <b>Limited quantities (LQ)</b>	5L
- <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**- **Poisons Act**- **Regulated explosives precursors**

7664-38-2	phosphoric acid	30%
7664-93-9	sulphuric acid	15%

- **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	7.5

- **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**

H225	Highly flammable liquid and vapour.
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.
H318	Causes serious eye damage.

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H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

EUH071 Corrosive to the respiratory tract.

- **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

Flam. Liq. 2: Flammable liquids – Category 2

Met. Corr. 1: Corrosive to metals – Category 1

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

- \* **Data compared to the previous version altered.**