




19260-B - Rocathaan Hotspray PA 260-FR - Base
SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier:** 19260-B - Rocathaan Hotspray PA 260-FR - Base
- Other means of identification:**
Not relevant
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
 Relevant uses (Professional users): Base for Hotspray
 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:**
 Prokol Protective Coatings
 Duizeltonksestraat 44
 5705 CA Helmond - Noord-Brabant - Nederland
 Phone: +31 (0) 85 78 200 20
 sds@prokol.nl
 www.prokol.com
- 1.4 Emergency telephone number:** +31 (0) 85 78 200 20 Mon - Fri 8am - 4.45pm

SECTION 2: HAZARDS IDENTIFICATION **

- 2.1 Classification of the substance or mixture:**
CLP Regulation (EC) No 1272/2008:
 Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.
 Acute Tox. 4: Acute toxicity if swallowed, Category 4, H302
 Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411
 Eye Dam. 1: Serious eye damage, Category 1, H318
 Skin Corr. 1C: Skin corrosion, Category 1C, H314
- 2.2 Label elements:**
CLP Regulation (EC) No 1272/2008:
Danger
- 


- Hazard statements:**
 Acute Tox. 4: H302 - Harmful if swallowed.
 Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
 Skin Corr. 1C: H314 - Causes severe skin burns and eye damage.
- Precautionary statements:**
 P264: Wash thoroughly after handling.
 P280: Wear protective gloves/face protection/protective clothing/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.
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 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.
 P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively.
- Supplementary information:**
 EUH208: Contains 3-aminopropyltriethoxysilane, 4-morpholinecarbaldehyde. May produce an allergic reaction.
 EUH211: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
- Substances that contribute to the classification**
 Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-; Glycerylpoly(oxypropen) triamine; Diethylmethylbenzenediamine
- UFI:** R190-X01J-Y00W-4CA0

** Changes with regards to the previous version

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SECTION 2: HAZARDS IDENTIFICATION ** (continued)

2.3 Other hazards:

Product does not meet PBT/vPvB criteria
Endocrine-disrupting properties: The product does not meet the criteria.

** Changes with regards to the previous version

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Not relevant

3.2 Mixture:

Chemical description: Formulated polyamines

Components:

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

| Identification | Chemical name/Classification | Concentration |
|--|---|---------------|
| CAS: 9046-10-0 EC: 618-561-0 Index: Not relevant REACH:01-2119557899-12-XXXX | Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-⁽¹⁾ Self-classified Regulation 1272/2008 Acute Tox. 4: H302; Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Corr. 1C: H314 - Danger | 50 - <75 % |
| CAS: 64852-22-8 EC: Not relevant Index: Not relevant REACH:Not relevant | Glycerylpoly(oxypropeen)triamine⁽¹⁾ Self-classified Regulation 1272/2008 Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger | 10 - <25 % |
| CAS: 68479-98-1 EC: 270-877-4 Index: 612-130-00-0 REACH:01-2119486805-25-XXXX | Diethylmethylbenzenediamine⁽¹⁾ ATP CLP00 Regulation 1272/2008 Acute Tox. 4: H302+H312; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Irrit. 2: H319; STOT RE 2: H373 - Warning | 5 - <10 % |
| CAS: 919-30-2 EC: 213-048-4 Index: 612-108-00-0 REACH:01-2119480479-24-XXXX | 3-aminopropyltriethoxysilane⁽¹⁾ Self-classified Regulation 1272/2008 Acute Tox. 4: H302; Eye Dam. 1: H318; Skin Corr. 1B: H314; Skin Sens. 1: H317 - Danger | <1 % |
| CAS: 4394-85-8 EC: 224-518-3 Index: Not relevant REACH:01-2119987993-12-XXXX | 4-morpholinecarbaldehyde⁽¹⁾ Self-classified Regulation 1272/2008 Skin Sens. 1B: H317 - Warning | <1 % |
| CAS: 123-86-4 EC: 204-658-1 Index: 607-025-00-1 REACH:01-2119485493-29-XXXX | N-butyl acetate⁽²⁾ ATP CLP00 Regulation 1272/2008 Flam. Liq. 3: H226; STOT SE 3: H336; EUH066 - Warning | <1 % |
| CAS: 108-65-6 EC: 203-603-9 Index: 607-195-00-7 REACH:01-2119475791-29-XXXX | 2-methoxy-1-methylethyl acetate⁽²⁾ Self-classified Regulation 1272/2008 Flam. Liq. 3: H226; STOT SE 3: H336 - Warning | <1 % |

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

⁽²⁾ Substance with a Union workplace exposure limit

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

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 |
|---|------------------------|--------------|
| Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)- CAS: 9046-10-0 EC: 618-561-0 | LD50 oral | 480 mg/kg |
| | LD50 dermal | Not relevant |
| | LC50 inhalation vapour | Not relevant |
| Diethylmethylbenzenediamine CAS: 68479-98-1 EC: 270-877-4 | LD50 oral | 598 mg/kg |
| | LD50 dermal | 1100 mg/kg |
| | LC50 inhalation vapour | Not relevant |

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

| Identification | Acute toxicity | | Genus |
|--|------------------------|--------------|-------|
| 3-aminopropyltriethoxysilane CAS: 919-30-2 EC: 213-048-4 | LD50 oral | 1491 mg/kg | Rat |
| | LD50 dermal | Not relevant | |
| | LC50 inhalation vapour | Not relevant | |

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:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for the product.

By ingestion/aspiration:

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and also risk damage to the respiratory system through inhalation. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Keep the person affected at rest.

4.2 Most important symptoms and effects, both acute and delayed:

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

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

Not relevant

SECTION 5: FIREFIGHTING MEASURES
5.1 Extinguishing media:
Suitable extinguishing media:

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. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

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.

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

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

For emergency responders:

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

6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Prevent the entrance of product in drains, sewers or watercourses. Absorb the spill using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. Collect the product in appropriate containers and manage it according to current legislation.

Spillages in water or sea:

Small spillages:

Contain spillage using barriers or similar equipment. Use suitable absorbents for collection and treat the waste in accordance with current regulations.

Large spillages:

If possible, contain spillage in open water using barriers or similar equipment. If this is not possible, try to control its spread and collect the product with suitable mechanical means. Always consult experts before using dispersants and make sure you have the necessary approvals if they are to be used. Treat the waste according to current regulations.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE
7.1 Precautions for safe handling:

A.-General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks 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

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Consult section 10 for conditions and materials that should be avoided.

C.-Technical recommendations on general occupational hygiene

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

D.-Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

7.2 Conditions for safe storage, including any incompatibilities:

A.-Specific storage requirements

Minimum Temp.: 5 °C

Maximum Temp.: 30 °C

Maximum time: 12 Months

B.-General conditions for storage

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SECTION 7: HANDLING AND STORAGE (continued)

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 assessed in the workplace:

EH40/2005 Workplace exposure limits, fourth edition, published 2020:

| Identification | Occupational exposure limits | | |
|---|------------------------------|---------|-----------------------|
| N-butyl acetate CAS: 123-86-4 EC: 204-658-1 | WEL (8h) | 150 ppm | 724 mg/m ³ |
| | WEL (15 min) | 200 ppm | 966 mg/m ³ |
| 2-methoxy-1-methylethyl acetate ⁽¹⁾ CAS: 108-65-6 EC: 203-603-9 | WEL (8h) | 50 ppm | 274 mg/m ³ |
| | WEL (15 min) | 100 ppm | 548 mg/m ³ |

⁽¹⁾ Skin

DNEL (Workers):

| Identification | | Short exposure | | Long exposure | |
|---|------------|-----------------------|-----------------------|-------------------------|------------------------|
| | | Systemic | Local | Systemic | Local |
| Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)- CAS: 9046-10-0 EC: 618-561-0 | Oral | Not relevant | Not relevant | Not relevant | Not relevant |
| | Dermal | Not relevant | Not relevant | 2.5 mg/kg | Not relevant |
| | Inhalation | Not relevant | Not relevant | 10.58 mg/m ³ | Not relevant |
| Diethylmethylbenzenediamine CAS: 68479-98-1 EC: 270-877-4 | Oral | Not relevant | Not relevant | Not relevant | Not relevant |
| | Dermal | Not relevant | Not relevant | 1 mg/kg | Not relevant |
| | Inhalation | Not relevant | Not relevant | 0.13 mg/m ³ | Not relevant |
| 3-aminopropyltriethoxysilane CAS: 919-30-2 EC: 213-048-4 | Oral | Not relevant | Not relevant | Not relevant | Not relevant |
| | Dermal | Not relevant | Not relevant | 2 mg/kg | Not relevant |
| | Inhalation | Not relevant | Not relevant | 14 mg/m ³ | Not relevant |
| 4-morpholinecarbaldehyde CAS: 4394-85-8 EC: 224-518-3 | Oral | Not relevant | Not relevant | Not relevant | Not relevant |
| | Dermal | Not relevant | Not relevant | 11.7 mg/kg | Not relevant |
| | Inhalation | Not relevant | Not relevant | 50.3 mg/m ³ | 13.3 mg/m ³ |
| N-butyl acetate CAS: 123-86-4 EC: 204-658-1 | Oral | Not relevant | Not relevant | Not relevant | Not relevant |
| | Dermal | 11 mg/kg | Not relevant | 11 mg/kg | Not relevant |
| | Inhalation | 600 mg/m ³ | 600 mg/m ³ | 300 mg/m ³ | 300 mg/m ³ |
| 2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9 | Oral | Not relevant | Not relevant | Not relevant | Not relevant |
| | Dermal | Not relevant | Not relevant | 796 mg/kg | Not relevant |
| | Inhalation | Not relevant | 550 mg/m ³ | 275 mg/m ³ | Not relevant |

DNEL (General population):

| Identification | | Short exposure | | Long exposure | |
|---|------------|----------------|--------------|------------------------|------------------------|
| | | Systemic | Local | Systemic | Local |
| Diethylmethylbenzenediamine CAS: 68479-98-1 EC: 270-877-4 | Oral | Not relevant | Not relevant | 0.1 mg/kg | Not relevant |
| | Dermal | Not relevant | Not relevant | 1 mg/kg | Not relevant |
| | Inhalation | Not relevant | Not relevant | 0.1 mg/m ³ | Not relevant |
| 3-aminopropyltriethoxysilane CAS: 919-30-2 EC: 213-048-4 | Oral | Not relevant | Not relevant | 1 mg/kg | Not relevant |
| | Dermal | Not relevant | Not relevant | 1 mg/kg | Not relevant |
| | Inhalation | Not relevant | Not relevant | 3.5 mg/m ³ | Not relevant |
| 4-morpholinecarbaldehyde CAS: 4394-85-8 EC: 224-518-3 | Oral | Not relevant | Not relevant | 4.17 mg/kg | Not relevant |
| | Dermal | Not relevant | Not relevant | 4.17 mg/kg | Not relevant |
| | Inhalation | Not relevant | Not relevant | 8.93 mg/m ³ | 13.3 mg/m ³ |

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

| Identification | | Short exposure | | Long exposure | |
|---|------------|-----------------------|-----------------------|------------------------|------------------------|
| | | Systemic | Local | Systemic | Local |
| N-butyl acetate CAS: 123-86-4 EC: 204-658-1 | Oral | 2 mg/kg | Not relevant | 2 mg/kg | Not relevant |
| | Dermal | 6 mg/kg | Not relevant | 6 mg/kg | Not relevant |
| | Inhalation | 300 mg/m ³ | 300 mg/m ³ | 35.7 mg/m ³ | 35.7 mg/m ³ |
| 2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9 | Oral | Not relevant | Not relevant | 36 mg/kg | Not relevant |
| | Dermal | Not relevant | Not relevant | 320 mg/kg | Not relevant |
| | Inhalation | Not relevant | Not relevant | 33 mg/m ³ | 33 mg/m ³ |

PNEC:

| Identification | | | | | |
|---|--------------|--------------|-------------------------|--------------|--|
| Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)- CAS: 9046-10-0 EC: 618-561-0 | STP | 7.5 mg/L | Fresh water | 0.015 mg/L | |
| | Soil | 0.018 mg/kg | Marine water | 0.014 mg/L | |
| | Intermittent | 0.15 mg/L | Sediment (Fresh water) | 0.132 mg/kg | |
| | Oral | 0.00693 g/kg | Sediment (Marine water) | 0.125 mg/kg | |
| Diethylmethylbenzenediamine CAS: 68479-98-1 EC: 270-877-4 | STP | 17 mg/L | Fresh water | 0.001 mg/L | |
| | Soil | 0.0056 mg/kg | Marine water | 0 mg/L | |
| | Intermittent | 0.005 mg/L | Sediment (Fresh water) | 0.029 mg/kg | |
| | Oral | 0.002 g/kg | Sediment (Marine water) | 0.003 mg/kg | |
| 3-aminopropyltriethoxysilane CAS: 919-30-2 EC: 213-048-4 | STP | 1.3 mg/L | Fresh water | Not relevant | |
| | Soil | Not relevant | Marine water | Not relevant | |
| | Intermittent | Not relevant | Sediment (Fresh water) | Not relevant | |
| | Oral | Not relevant | Sediment (Marine water) | Not relevant | |
| 4-morpholinecarbaldehyde CAS: 4394-85-8 EC: 224-518-3 | STP | 2000 mg/L | Fresh water | 0.5 mg/L | |
| | Soil | 0.244 mg/kg | Marine water | 0.05 mg/L | |
| | Intermittent | 5 mg/L | Sediment (Fresh water) | 2.69 mg/kg | |
| | Oral | Not relevant | Sediment (Marine water) | 0.269 mg/kg | |
| N-butyl acetate CAS: 123-86-4 EC: 204-658-1 | STP | 35.6 mg/L | Fresh water | 0.18 mg/L | |
| | Soil | 0.09 mg/kg | Marine water | 0.018 mg/L | |
| | Intermittent | 0.36 mg/L | Sediment (Fresh water) | 0.981 mg/kg | |
| | Oral | Not relevant | Sediment (Marine water) | 0.098 mg/kg | |
| 2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9 | STP | 100 mg/L | Fresh water | 0.635 mg/L | |
| | Soil | 0.29 mg/kg | Marine water | 0.064 mg/L | |
| | Intermittent | 6.35 mg/L | Sediment (Fresh water) | 3.29 mg/kg | |
| | Oral | Not relevant | Sediment (Marine water) | 0.329 mg/kg | |

8.2 Exposure controls:

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

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

If the working conditions and/or safety measures adopted do not allow keeping the airborne concentration of the product below the exposure limits (if any) or at acceptable levels (if no exposure limits exist), suitable respiratory protection equipment chosen by a qualified professional should be used.

C.- Specific protection for the hands

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|--|---|--|-------------------|--|
|  Mandatory hand protection | Chemical protective gloves (Material: Nitrile, Breakthrough time: > 480 min, Thickness: 0.4 mm) |  CAT III | EN ISO 21420:2020 | Replace the gloves at any sign of deterioration. |



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

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 |  | 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 |  | 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 |  | EN ISO 20345:2022 EN 13832-1:2019 | Replace boots at any sign of deterioration. |

F.- Additional emergency measures

It is advised to implement additional emergency equipments in workplaces that are particularly exposed to the product or in situations where risk assessments highlight the necessity of such equipments.

| 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:

To comply with environmental protection regulations, it is recommended to prevent any spillage of the product and its container. For more detailed information, please refer to subsection 7.1.D.

Volatile organic compounds:

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

| | |
|---------------------------|---------------|
| V.O.C. (Supply): | 0.51 % weight |
| V.O.C. density at 20 °C: | Not relevant |
| Average carbon number: | 5.7 |
| Average molecular weight: | 115.03 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: | Characteristic |
| Colour: |  Grey |
| Odour: | Characteristic |
| Odour threshold: | Not relevant * |

Volatility:

*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)

| | |
|--|------------------------|
| Boiling point at atmospheric pressure: | 176 °C |
| Vapour pressure at 20 °C: | 603 Pa |
| Vapour pressure at 50 °C: | 3141.21 Pa (3.14 kPa) |
| Evaporation rate at 20 °C: | Not relevant * |
| Product description: | |
| Density at 20 °C: | Not relevant * |
| Relative density at 20 °C: | Not relevant * |
| Dynamic viscosity at 20 °C: | Not relevant * |
| Kinematic viscosity at 20 °C: | Not relevant * |
| Kinematic viscosity at 40 °C: | Not relevant * |
| Concentration: | Not relevant * |
| pH: | Not relevant * |
| 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: | 300 °C |
| Lower flammability limit: | Not relevant * |
| Upper flammability limit: | Not relevant * |
| Particle characteristics: | |
| Median equivalent diameter: | Not relevant * |

9.2 Other information:

Information with regard to physical hazard classes:

| | |
|--|----------------|
| Explosive properties: | Not relevant * |
| Oxidising properties: | Not relevant * |
| Corrosive to metals: | Not relevant * |
| Heat of combustion: | Not relevant * |
| Aerosols-total percentage (by mass) of flammable components: | Not relevant * |

Other safety characteristics:

| | |
|---------------------------|----------------|
| Surface tension at 20 °C: | Not relevant * |
| Refraction index: | Not relevant * |

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

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SECTION 10: STABILITY AND REACTIVITY (continued)

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 | Precaution | Precaution | 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 (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

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

Dangerous health implications:

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

A- Ingestion (acute effect):

- Acute toxicity: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- Corrosivity/Irritability: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain 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: Zeolites (3); Titanium dioxide (2B); Carbon black (2B)
- 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: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with sensitising effects. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

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.

- CONTINUED ON NEXT PAGE -

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met. However, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met. However, it does contain substances which are classified as dangerous due to repetitive exposure. 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 |
|--|------------------------|-----------------|--------|
| Diethylmethylbenzenediamine CAS: 68479-98-1 EC: 270-877-4 | LD50 oral | 598 mg/kg | Rat |
| | LD50 dermal | 1100 mg/kg | Rat |
| | LC50 inhalation vapour | >20 mg/L | |
| Glycerylpoly(oxypropeen)triamine CAS: 64852-22-8 EC: Not relevant | LD50 oral | >2000 mg/kg | |
| | LD50 dermal | >2000 mg/kg | |
| | LC50 inhalation gases | >20000 mg/L | |
| | LC50 inhalation vapour | >20 mg/L | |
| | LC50 inhalation dust | >5 mg/L | |
| | LC50 inhalation mist | >5 mg/L | |
| Poly[oxy(methyl-1,2-ethanediy)] _n ,a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)- CAS: 9046-10-0 EC: 618-561-0 | LD50 oral | 480 mg/kg | Rat |
| | LD50 dermal | 2979.7 mg/kg | Rabbit |
| | LC50 inhalation gases | >20000 mg/L | |
| | LC50 inhalation vapour | >20 mg/L | |
| | LC50 inhalation dust | >5 mg/L | |
| | LC50 inhalation mist | >5 mg/L | |
| 3-aminopropyltriethoxysilane CAS: 919-30-2 EC: 213-048-4 | LD50 oral | 1491 mg/kg | Rat |
| | LD50 dermal | 4000 mg/kg | Rabbit |
| | LC50 inhalation vapour | >20 mg/L | |
| 4-morpholinecarbaldehyde CAS: 4394-85-8 EC: 224-518-3 | LD50 oral | 7475 mg/kg | Rat |
| | LD50 dermal | 18400 mg/kg | Rabbit |
| | LC50 inhalation dust | >5 mg/L | |
| N-butyl acetate CAS: 123-86-4 EC: 204-658-1 | LD50 oral | 12789 mg/kg | Rat |
| | LD50 dermal | 14112 mg/kg | Rabbit |
| | LC50 inhalation vapour | 23.4 mg/L (4 h) | Rat |
| 2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9 | LD50 oral | 8532 mg/kg | Rat |
| | LD50 dermal | >5000 mg/kg | Rat |
| | LC50 inhalation vapour | 30 mg/L (4 h) | Rat |

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

Toxic to aquatic life with long lasting effects.

- CONTINUED ON NEXT PAGE -

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SECTION 12: ECOLOGICAL INFORMATION (continued)

12.1 Toxicity:

Acute toxicity:

| Identification | Concentration | Species | Genus |
|---|---------------|-----------------------|-------------------------|
| Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)- CAS: 9046-10-0 EC: 618-561-0 | LC50 | >10 - 100 mg/L (96 h) | Fish |
| | EC50 | >10 - 100 mg/L (48 h) | Crustacean |
| | EC50 | >10 - 100 mg/L (72 h) | Algae |
| Glycerylpoly(oxypropeen)triamine CAS: 64852-22-8 EC: Not relevant | LC50 | >10 - 100 mg/L (96 h) | Fish |
| | EC50 | >10 - 100 mg/L (48 h) | Crustacean |
| | EC50 | >10 - 100 mg/L (72 h) | Algae |
| Diethylmethylbenzenediamine CAS: 68479-98-1 EC: 270-877-4 | LC50 | 194 mg/L (48 h) | Leuciscus idus |
| | EC50 | 0.5 mg/L (48 h) | Daphnia magna |
| | EC50 | Not relevant | |
| 4-morpholinecarbaldehyde CAS: 4394-85-8 EC: 224-518-3 | LC50 | 500 mg/L (96 h) | Leuciscus idus |
| | EC50 | Not relevant | |
| | EC50 | 23880 mg/L (72 h) | Desmodesmus subspicatus |
| N-butyl acetate CAS: 123-86-4 EC: 204-658-1 | LC50 | Not relevant | |
| | EC50 | Not relevant | |
| | EC50 | 675 mg/L (72 h) | Scenedesmus subspicatus |
| 2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9 | LC50 | 161 mg/L (96 h) | Pimephales promelas |
| | EC50 | 481 mg/L (48 h) | Daphnia sp. |
| | EC50 | Not relevant | |

Chronic toxicity:

| Identification | Concentration | Species | Genus |
|--|---------------|--------------|-----------------|
| 4-morpholinecarbaldehyde CAS: 4394-85-8 EC: 224-518-3 | NOEC | 1 mg/L | Fish |
| | NOEC | 1 mg/L | Daphnia magna |
| N-butyl acetate CAS: 123-86-4 EC: 204-658-1 | NOEC | Not relevant | |
| | NOEC | 23.2 mg/L | Daphnia magna |
| 2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9 | NOEC | 47.5 mg/L | Oryzias latipes |
| | NOEC | 100 mg/L | Daphnia magna |

12.2 Persistence and degradability:

Substance-specific information:

| Identification | Degradability | Biodegradability |
|---|---------------|------------------|
| Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)- CAS: 9046-10-0 EC: 618-561-0 | BOD5 | Not relevant |
| | COD | Not relevant |
| | BOD5/COD | Not relevant |
| 3-aminopropyltriethoxysilane CAS: 919-30-2 EC: 213-048-4 | BOD5 | Not relevant |
| | COD | Not relevant |
| | BOD5/COD | Not relevant |
| 4-morpholinecarbaldehyde CAS: 4394-85-8 EC: 224-518-3 | BOD5 | Not relevant |
| | COD | Not relevant |
| | BOD5/COD | Not relevant |
| N-butyl acetate CAS: 123-86-4 EC: 204-658-1 | BOD5 | Not relevant |
| | COD | Not relevant |
| | BOD5/COD | Not relevant |
| 2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9 | BOD5 | Not relevant |
| | COD | Not relevant |
| | BOD5/COD | Not relevant |

12.3 Bioaccumulative potential:

Substance-specific information:

- CONTINUED ON NEXT PAGE -

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SECTION 12: ECOLOGICAL INFORMATION (continued)

| Identification | Bioaccumulation potential | |
|---|---------------------------|------|
| Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)- CAS: 9046-10-0 EC: 618-561-0 | BCF | |
| | Pow Log | 1.34 |
| | Potential | |
| 4-morpholinecarbaldehyde CAS: 4394-85-8 EC: 224-518-3 | BCF | 1 |
| | Pow Log | -1.2 |
| | Potential | Low |
| N-butyl acetate CAS: 123-86-4 EC: 204-658-1 | BCF | 4 |
| | Pow Log | 1.78 |
| | Potential | Low |
| 2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9 | BCF | 1 |
| | Pow Log | 0.43 |
| | Potential | Low |

12.4 Mobility in soil:

| Identification | Absorption/desorption | | Volatility | |
|---|-----------------------|----------------------|------------|---------------------------------|
| 4-morpholinecarbaldehyde CAS: 4394-85-8 EC: 224-518-3 | Koc | 1 | Henry | 2.302E-3 Pa·m ³ /mol |
| | Conclusion | Very High | Dry soil | Not relevant |
| | Surface tension | Not relevant | Moist soil | Not relevant |
| N-butyl acetate CAS: 123-86-4 EC: 204-658-1 | Koc | Not relevant | Henry | Not relevant |
| | Conclusion | Not relevant | Dry soil | Not relevant |
| | Surface tension | 2.478E-2 N/m (25 °C) | 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) |
|-----------|---|--|
| 08 01 11* | waste paint and varnish containing organic solvents or other hazardous substances | Hazardous |

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

HP14 Ecotoxic, HP6 Acute Toxicity, HP8 Corrosive

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, The Waste Regulations 2011, 2011 No. 988). As under 15 01 (2014/955/EU) 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:

** Changes with regards to the previous version

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SECTION 14: TRANSPORT INFORMATION ** (continued)

With regard to ADR 2023 and RID 2023:



- 14.1 UN number or ID number:** UN3066
14.2 UN proper shipping name: PAINT RELATED MATERIAL
14.3 Transport hazard class (es): 8
 Labels: 8
14.4 Packing group: III
14.5 Environmental hazards: Yes
14.6 Special precautions for user
 Special regulations: 163, 367
 Tunnel restriction code: E
 Physico-Chemical properties: see section 9
 Limited quantities: 5 L
14.7 Maritime transport in bulk according to IMO instruments: Not relevant

Transport of dangerous goods by sea:

With regard to IMDG 41-22:



- 14.1 UN number or ID number:** UN3066
14.2 UN proper shipping name: PAINT RELATED MATERIAL
14.3 Transport hazard class (es): 8
 Labels: 8
14.4 Packing group: III
14.5 Marine pollutant: Yes
14.6 Special precautions for user
 Special regulations: 163, 223, 367
 EmS Codes: F-A, S-B
 Physico-Chemical properties: see section 9
 Limited quantities: 5 L
 Segregation group: Not relevant
14.7 Maritime transport in bulk according to IMO instruments: Not relevant

Transport of dangerous goods by air:

With regard to IATA/ICAO 2024:



- 14.1 UN number or ID number:** UN3066
14.2 UN proper shipping name: PAINT RELATED MATERIAL
14.3 Transport hazard class (es): 8
 Labels: 8
14.4 Packing group: III
14.5 Environmental hazards: Yes
14.6 Special precautions for user
 Physico-Chemical properties: see section 9
14.7 Maritime transport in bulk according to IMO instruments: Not relevant

** Changes with regards to the previous version

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)

- : Not relevant
- 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) 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:

| Section | Description | Lower-tier requirements | Upper-tier requirements |
|---------|-----------------------|-------------------------|-------------------------|
| E2 | ENVIRONMENTAL HAZARDS | 200 | 500 |

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 Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (CDG 2009), SI 2009 No 1348
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment (Amendment) Regulations 2011, 2011 No. 1885
Control of Substances Hazardous to Health Regulations 2002 (as amended)
EH40/2005 Workplace exposure limits
The Waste Regulations 2011, 2011 No. 988

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:

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.:

Substances that contribute to the classification (SECTION 2):

- New declared substances
Diethylmethylbenzenediamine (68479-98-1)

CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):

- Pictograms
- Hazard statements

TRANSPORT INFORMATION (SECTION 14):

- UN number

Texts of the legislative phrases mentioned in section 2:

H318: Causes serious eye damage.
H411: Toxic to aquatic life with long lasting effects.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.

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:

** Changes with regards to the previous version

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SECTION 16: OTHER INFORMATION ** (continued)

Acute Tox. 4: H302 - Harmful if swallowed.
 Acute Tox. 4: H302+H312 - Harmful if swallowed or in contact with skin.
 Aquatic Acute 1: H400 - Very toxic to aquatic life.
 Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.
 Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
 Eye Dam. 1: H318 - Causes serious eye damage.
 Eye Irrit. 2: H319 - Causes serious eye irritation.
 Flam. Liq. 3: H226 - Flammable liquid and vapour.
 Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
 Skin Corr. 1C: H314 - Causes severe skin burns and eye damage.
 Skin Irrit. 2: H315 - Causes skin irritation.
 Skin Sens. 1: H317 - May cause an allergic skin reaction.
 Skin Sens. 1B: H317 - May cause an allergic skin reaction.
 STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure.
 STOT SE 3: H336 - May cause drowsiness or dizziness.

Classification procedure:

Eye Dam. 1: Calculation method
 Aquatic Chronic 2: Calculation method
 Acute Tox. 4: Calculation method
 Skin Corr. 1C: 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

**** Changes with regards to the previous version**

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.

- END OF SAFETY DATA SHEET -