

**19270-B - Rocathaan Hotspray PA 270-FR - Base****SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier:** 19270-B - Rocathaan Hotspray PA 270-FR - Base**Other means of identification:**

Not relevant

**1.2 Relevant identified uses of the substance or mixture and uses advised against:**

Relevant uses: Base for Hotspray. For professional users only.

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:****GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567):**

Classification of this product has been carried out in accordance with GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567).

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

Skin Sens. 1A: Sensitisation, skin, Category 1A, H317

STOT RE 2: Specific target organ toxicity, repeated exposure, Category 2, H373

**2.2 Label elements:****GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567):**

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.

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

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

**Precautionary statements:**

P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.

P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position 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 the contents and/or its container in line with regulations on dangerous waste or packaging and waste packaging respectively.

**Supplementary information:**

Contains 3-aminopropyltriethoxysilane, 4-morpholinecarbaldehyde, C9-C11 Aliphatic polyether.

**Substances that contribute to the classification**

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**SECTION 2: HAZARDS IDENTIFICATION (continued)**

Poly[oxy(methyl-1,2-ethanediy)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-;  
Diethylmethylbenzenediamine; Glycerylpoly(oxypropeen)triamine; maleic anhydride

**2.3 Other hazards:**

Product does not meet PBT/vPvB criteria

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substance:**








Non-applicable

**3.2 Mixture:**

**Chemical description:** Formulated polyamines

**Components:**

In accordance with Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, the product contains:

| Identification   | Chemical name/Classification  | Concentration |
|------------------|---|---------------|
| CAS: 9046-10-0   | <b>Poly[oxy(methyl-1,2-ethanediy)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-</b><br>Acute Tox. 4: H302; Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Corr. 1C: H314 - Danger  | 25 - <50 %    |
| CAS: 68479-98-1  | <b>Diethylmethylbenzenediamine</b><br>Acute Tox. 4: H302+H312; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Irrit. 2: H319; STOT RE 2: H373 - Warning                           | 10 - <25 %    |
| CAS: 64852-22-8  | <b>Glycerylpoly(oxypropeen)triamine</b><br>Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger   | 5 - <10 %     |
| CAS: 919-30-2    | <b>3-aminopropyltriethoxysilane</b><br>Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317 - Danger    | <1 %          |
| CAS: 709014-50-6 | <b>C9-C11 Aliphatic polyether</b><br>Skin Sens. 1: H317 - Warning    | <1 %          |
| CAS: 4394-85-8   | <b>4-morpholinecarbaldehyde</b><br>Skin Sens. 1B: H317 - Warning   | <1 %          |
| CAS: 108-31-6    | <b>maleic anhydride</b><br>Acute Tox. 4: H302; Eye Dam. 1: H318; Resp. Sens. 1: H334; Skin Corr. 1B: H314; Skin Sens. 1A: H317; STOT RE 1: H372; EUH071 - Danger                     | <1 %          |

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

**Other information:**

| Identification                    | Specific concentration limit          |
|-----------------------------------|---------------------------------------|
| maleic anhydride<br>CAS: 108-31-6 | % (w/w) >=0.001: Skin Sens. 1A - H317 |

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 |
|---|-----------------|--------------|-------|
|   | LD50 oral       | LD50 dermal  |       |
| Poly[oxy(methyl-1,2-ethanediy)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-<br>CAS: 9046-10-0 | LD50 oral       | 480 mg/kg    | Rat   |
|   | LD50 dermal     | Not relevant |       |
|   | LC50 inhalation | Not relevant |       |
| Diethylmethylbenzenediamine<br>CAS: 68479-98-1  | LD50 oral       | 598 mg/kg    | Rat   |
|   | LD50 dermal     | 1100 mg/kg   | Rat   |
|   | LC50 inhalation | Not relevant |       |
| 3-aminopropyltriethoxysilane<br>CAS: 919-30-2   | LD50 oral       | 1491 mg/kg   | Rat   |
|   | LD50 dermal     | Not relevant |       |
|   | LC50 inhalation | Not relevant |       |
| maleic anhydride<br>CAS: 108-31-6   | LD50 oral       | 1090 mg/kg   | Rat   |
|   | LD50 dermal     | Not relevant |       |
|   | LC50 inhalation | Not relevant |       |

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**19270-B - Rocathaan Hotspray PA 270-FR - Base****SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures:**

Request medical assistance immediately, showing the SDS of this product.

**By inhalation:**

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

**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 lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

**By ingestion/aspiration:**

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

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

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

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

Not relevant

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

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

**Unsuitable extinguishing media:**

Non-applicable

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

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

**5.3 Advice for firefighters:**

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit, ...).

**Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

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

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

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

**For emergency responders:**

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

**6.2 Environmental precautions:**

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

**6.3 Methods and material for containment and cleaning up:**

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

**6.4 Reference to other sections:**

See sections 8 and 13.

**SECTION 7: HANDLING AND STORAGE**

**7.1 Precautions for safe handling:**

A.-General precautions for safe use

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

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

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

C.- Technical recommendations on general occupational hygiene

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

D.- Technical recommendations to prevent environmental risks

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

**7.2 Conditions for safe storage, including any incompatibilities:**

A.- Specific storage requirements

Minimum Temp.: 5 °C  
Maximum Temp.: 30 °C  
Maximum time: 12 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

**7.3 Specific end use(s):**

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters:**

Substances whose occupational exposure limits have to be monitored in the workplace:

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

| Identification                    | Occupational exposure limits |  |
|-----------------------------------|------------------------------|--|
|                                   | WEL (8h)                     | WEL (15 min)                               |
| maleic anhydride<br>CAS: 108-31-6 |                              | 1 mg/m <sup>3</sup><br>3 mg/m <sup>3</sup> |

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

**DNEL (Workers):**

| Identification  |            | Short exposure        |                       | Long exposure           |                         |
|---|------------|-----------------------|-----------------------|-------------------------|-------------------------|
|   |            | Systemic              | Local                 | Systemic                | Local                   |
| Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-<br>CAS: 9046-10-0<br>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 <sup>3</sup> | Not relevant            |
| Diethylmethylbenzenediamine<br>CAS: 68479-98-1<br>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 <sup>3</sup>  | Not relevant            |
| 3-aminopropyltriethoxysilane<br>CAS: 919-30-2<br>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 <sup>3</sup>    | Not relevant            |
| 4-morpholinecarbaldehyde<br>CAS: 4394-85-8<br>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 <sup>3</sup>  | 13.3 mg/m <sup>3</sup>  |
| maleic anhydride<br>CAS: 108-31-6<br>EC: 203-571-6  | Oral       | Not relevant          | Not relevant          | Not relevant            | Not relevant            |
|   | Dermal     | Not relevant          | Not relevant          | Not relevant            | Not relevant            |
|   | Inhalation | 0.2 mg/m <sup>3</sup> | 0.2 mg/m <sup>3</sup> | 0.081 mg/m <sup>3</sup> | 0.081 mg/m <sup>3</sup> |

**DNEL (General population):**

| Identification  |            | Short exposure |              | Long exposure          |                        |
|---|------------|----------------|--------------|------------------------|------------------------|
|   |            | Systemic       | Local        | Systemic               | Local                  |
| Diethylmethylbenzenediamine<br>CAS: 68479-98-1<br>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 <sup>3</sup>  | Not relevant           |
| 3-aminopropyltriethoxysilane<br>CAS: 919-30-2<br>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 <sup>3</sup>  | Not relevant           |
| 4-morpholinecarbaldehyde<br>CAS: 4394-85-8<br>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 <sup>3</sup> | 13.3 mg/m <sup>3</sup> |

**PNEC:**

| Identification  |              |              |                         |              |  |
|---|--------------|--------------|-------------------------|--------------|--|
| Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-<br>CAS: 9046-10-0<br>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<br>CAS: 68479-98-1<br>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<br>CAS: 919-30-2<br>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<br>CAS: 4394-85-8<br>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  |  |
| maleic anhydride<br>CAS: 108-31-6<br>EC: 203-571-6  | STP          | 44.6 mg/L    | Fresh water             | 0.038 mg/L   |  |
|   | Soil         | 0.037 mg/kg  | Marine water            | 0.004 mg/L   |  |
|   | Intermittent | 0.379 mg/L   | Sediment (Fresh water)  | 0.296 mg/kg  |  |
|   | Oral         | Not relevant | Sediment (Marine water) | 0.03 mg/kg   |  |

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

**8.2 Exposure controls:**


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

In accordance with the order of importance to control professional exposure it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the occupational exposure limits. In case of using personal protective equipment it should have <<UKCA marking>> or <<CE marking>>. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For additional information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection


| Pictogram   | PPE                               | Remarks  |
|---|-----------------------------------|--|
| <br>Mandatory respiratory tract protection | Filter mask for gases and vapours | Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. |

C.- Specific protection for the hands



| Pictogram   | PPE   | Remarks  |
|---|---|--|
| <br>Mandatory hand protection | Chemical protective gloves (Material: Nitrile, Breakthrough time: > 480 min, Thickness: 0.4 mm) | Replace the gloves at any sign of deterioration. |

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.



D.- Eye and face protection

| Pictogram  | PPE         | Remarks   |
|--|-------------|---|
| <br>Mandatory face protection | Face shield | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |

E.- Body protection

| Pictogram   | PPE   | Remarks   |
|---|---|---|
| <br>Mandatory complete body protection | Disposable clothing for protection against chemical risks | For professional use only. Clean periodically according to the manufacturer's instructions. |
| <br>Mandatory foot protection          | Safety footwear for protection against chemical risk      | Replace boots at any sign of deterioration.   |

F.- Additional emergency measures

| Emergency measure   | Standards                                       | Emergency measure  | Standards                                      |
|---|---|--|--|
| <br>Emergency shower | ANSI Z358-1<br>ISO 3864-1:2011, ISO 3864-4:2011 | <br>Eyewash stations | DIN 12 899<br>ISO 3864-1:2011, ISO 3864-4:2011 |

**Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

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

**The Volatile Organic Compounds in Paints, Varnishes and Vehicle Refinishing Products Regulations 2012:**

|                          |                                     |
|--------------------------|-------------------------------------|
| V.O.C. (Supply):         | 0.85 % weight                       |
| V.O.C. density at 20 °C: | 11.28 kg/m <sup>3</sup> (11.28 g/L) |

**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:                  |  Beige |
| Odour:                   | Characteristic  |
| Odour threshold:         | Not relevant *  |

**Volatility:**

|  |                     |
|--|---------------------|
| Boiling point at atmospheric pressure: | 135 - 343 °C        |
| Vapour pressure at 20 °C:              | 1 Pa                |
| Vapour pressure at 50 °C:              | 25.97 Pa (0.03 kPa) |
| Evaporation rate at 20 °C:             | Not relevant *      |

**Product description:**

|  |                          |
|--|--------------------------|
| Density at 20 °C:                            | 1328.5 kg/m <sup>3</sup> |
| Relative density at 20 °C:                   | 1.328                    |
| 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: | Non-applicable |
|-----------------------------|----------------|

**9.2 Other information:**

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

|                       |                |
|-----------------------|----------------|
| Explosive properties: | Not relevant * |
|-----------------------|----------------|

\*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)**

|  |                |
|--|----------------|
| Oxidising properties:  | Not relevant * |
| Corrosive to metals:   | Not relevant * |
| Heat of combustion:  | Not relevant * |
| Aerosols-total percentage (by mass) of flammable components: | Not relevant * |
| <b>Other safety characteristics:</b>                         |                |
| Surface tension at 20 °C:                                    | Not relevant * |
| Refraction index:  | Not relevant * |

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

**SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity:**

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

**10.2 Chemical stability:**

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

**10.3 Possibility of hazardous reactions:**

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

**10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight       | Humidity       |
|--------------------|------------------|-------------------------|----------------|----------------|
| Not applicable     | Not applicable   | Not applicable          | Not applicable | Not applicable |

**10.5 Incompatible materials:**

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

**10.6 Hazardous decomposition products:**

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

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects:**

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):

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**SECTION 11: TOXICOLOGICAL INFORMATION (continued)**

- 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); Talc (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with sensitising effects. For more information see section 3.
- Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

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

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

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

- Specific target organ toxicity (STOT)-repeated exposure: Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

**Other information:**

Not relevant

**Specific toxicology information on the substances:**

| Identification   | Acute toxicity   |                   | Genus  |
|--|------------------|-------------------|--------|
|  | LD50 oral        | LD50 dermal       |        |
| Diethylmethylbenzenediamine<br>CAS: 68479-98-1   | 598 mg/kg (ATEi) | 1100 mg/kg (ATEi) | Rat    |
|  | >20 mg/L         |                   | Rat    |
|  |                  |                   |        |
| Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-<br>CAS: 9046-10-0 | 480 mg/kg        | 2979.7 mg/kg      | Rat    |
|  |                  |                   | Rabbit |
|  |                  |                   |        |
| Glycerylpoly(oxypropeen)triamine<br>CAS: 64852-22-8  | >5000 mg/kg      | >5000 mg/kg       |        |
|  |                  |                   |        |
|  |                  |                   |        |
| 3-aminopropyltriethoxysilane<br>CAS: 919-30-2  | 1491 mg/kg       | 4000 mg/kg        | Rat    |
|  |                  |                   | Rabbit |
|  | >20 mg/L         |                   |        |
| C9-C11 Aliphatic polyether<br>CAS: 709014-50-6   | >5000 mg/kg      | >5000 mg/kg       |        |
|  |                  |                   |        |
|  |                  |                   |        |
| 4-morpholinecarbaldehyde<br>CAS: 4394-85-8   | 7475 mg/kg       | 18400 mg/kg       | Rat    |
|  |                  |                   | Rabbit |
|  | >5 mg/L          |                   |        |
| maleic anhydride<br>CAS: 108-31-6  | 1090 mg/kg       | >5000 mg/kg       | Rat    |
|  |                  |                   |        |
|  | >5 mg/L          |                   |        |

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**19270-B - Rocathaan Hotspray PA 270-FR - Base**

**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.

**12.1 Toxicity:**

**Acute toxicity:**

| Identification   | Concentration |                       | Species                 | Genus      |
|--|---------------|-----------------------|-------------------------|------------|
|  | LC50          | EC50                  |                         |            |
| Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-<br>CAS: 9046-10-0 | LC50          | >10 - 100 mg/L (96 h) |                         | Fish       |
|  | EC50          | >10 - 100 mg/L (48 h) |                         | Crustacean |
|  | EC50          | >10 - 100 mg/L (72 h) |                         | Algae      |
| Diethylmethylbenzenediamine<br>CAS: 68479-98-1   | LC50          | 194 mg/L (48 h)       | Leuciscus idus          | Fish       |
|  | EC50          | 0.5 mg/L (48 h)       | Daphnia magna           | Crustacean |
|  | EC50          | Not relevant          |                         |            |
| Glycerylpoly(oxypropeen)triamine<br>CAS: 64852-22-8  | LC50          | >10 - 100 mg/L (96 h) |                         | Fish       |
|  | EC50          | >10 - 100 mg/L (48 h) |                         | Crustacean |
|  | EC50          | >10 - 100 mg/L (72 h) |                         | Algae      |
| 3-aminopropyltriethoxysilane<br>CAS: 919-30-2  | LC50          | 934 mg/L (96 h)       | Danio rerio             | Fish       |
|  | EC50          | 331 mg/L (48 h)       | N/A                     | Crustacean |
|  | EC50          | 603 mg/L (72 h)       | Desmodesmus subspicatus | Algae      |
| 4-morpholinecarbaldehyde<br>CAS: 4394-85-8   | LC50          | 500 mg/L (96 h)       | Leuciscus idus          | Fish       |
|  | EC50          | Not relevant          |                         |            |
|  | EC50          | 23880 mg/L (72 h)     | Desmodesmus subspicatus | Algae      |

**Chronic toxicity:**

| Identification                             | Concentration |        | Species       | Genus      |
|--|---------------|--------|---------------|------------|
|  | NOEC          | 1 mg/L |               |            |
| 4-morpholinecarbaldehyde<br>CAS: 4394-85-8 | NOEC          | 1 mg/L | N/A           | Fish       |
|  | NOEC          | 1 mg/L | Daphnia magna | Crustacean |

**12.2 Persistence and degradability:**

**Substance-specific information:**

| Identification   | Degradability                                 |              | Biodegradability |               |
|--|---|--------------|------------------|---------------|
|  | BOD5  | Not relevant | Concentration    | 17.6 mg/L     |
| Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-<br>CAS: 9046-10-0 | COD   | Not relevant | Period           | 28 days       |
|  | BOD5/COD                                      | Not relevant | % Biodegradable  | 0 %           |
|  | 3-aminopropyltriethoxysilane<br>CAS: 919-30-2 | BOD5         | Not relevant     | Concentration |
| COD  |   | Not relevant | Period           | 28 days       |
| BOD5/COD   |   | Not relevant | % Biodegradable  | 67 %          |
| 4-morpholinecarbaldehyde<br>CAS: 4394-85-8   | BOD5  | Not relevant | Concentration    | 100 mg/L      |
|  | COD   | Not relevant | Period           | 30 days       |
|  | BOD5/COD                                      | Not relevant | % Biodegradable  | 100 %         |
| maleic anhydride<br>CAS: 108-31-6  | BOD5  | Not relevant | Concentration    | 33.33 mg/L    |
|  | COD   | Not relevant | Period           | 29 days       |
|  | BOD5/COD                                      | Not relevant | % Biodegradable  | 98.19 %       |

**12.3 Bioaccumulative potential:**

**Substance-specific information:**

| Identification   | Bioaccumulation potential                  |         |
|--|--|---------|
|  | BCF  | Pow Log |
| Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-<br>CAS: 9046-10-0 | Pow Log                                    | 1.34    |
|  | Potential                                  |         |
|  | 4-morpholinecarbaldehyde<br>CAS: 4394-85-8 | BCF     |
| Pow Log  |  | -1.2    |
| Potential  |  | Low     |
| maleic anhydride<br>CAS: 108-31-6  | BCF  |         |
|  | Pow Log                                    | -2.61   |
|  | Potential                                  |         |

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**19270-B - Rocathaan Hotspray PA 270-FR - Base**

**SECTION 12: ECOLOGICAL INFORMATION (continued)**

**12.4 Mobility in soil:**

| Identification                             | Absorption/desorption |                          | Volatility |                                 |
|--|-----------------------|--------------------------|------------|---------------------------------|
|  | Koc                   |                          | Henry      |                                 |
| 4-morpholinecarbaldehyde<br>CAS: 4394-85-8 | 1                     | Very High                | Dry soil   | 2.302E-3 Pa·m <sup>3</sup> /mol |
|  |                       | Not relevant             | Moist soil | No                              |
| maleic anhydride<br>CAS: 108-31-6          | 42                    | Very High                | Dry soil   | 0E+0 Pa·m <sup>3</sup> /mol     |
|  |                       | 1.673E-2 N/m (250.21 °C) | Moist soil | Not relevant                    |

**12.5 Results of PBT and vPvB assessment:**

Product does not meet PBT/vPvB criteria

**12.6 Other adverse effects:**

Not described

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods:**

| Code      | Description   | Waste class |
|-----------|---|-------------|
| 08 01 11* | waste paint and varnish containing organic solvents or other hazardous substances | Hazardous   |

**Type of waste:**

HP14 Ecotoxic, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP6 Acute Toxicity, HP8 Corrosive

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

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste (England & Wales) Regulations 2011, 2011 No. 988. As under 15 01 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 UK REACH the provisions related to waste management are stated:

UK legislation: The Waste (England & Wales) Regulations 2011.

**SECTION 14: TRANSPORT INFORMATION**

**Transport of dangerous goods by land:**

With regard to ADR 2023 and RID 2023:



- 14.1 UN number:** UN2735
- 14.2 UN proper shipping name:** POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-; Diethylmethylbenzenediamine)
- 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**
- Tunnel restriction code: E
- Physico-Chemical properties: see section 9
- Limited quantities: 5 L
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:** Not relevant

**Transport of dangerous goods by sea:**

With regard to IMDG 41-22:

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**19270-B - Rocathaan Hotspray PA 270-FR - Base**

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



- 14.1 UN number:** UN2735
- 14.2 UN proper shipping name:** POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-; Diethylmethylbenzenediamine)
- 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: 223, 274
- EmS Codes: F-A, S-B
- Physico-Chemical properties: see section 9
- Limited quantities: 5 L
- Segregation group: SGG18
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:** Not relevant

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2024:



- 14.1 UN number:** UN2735
- 14.2 UN proper shipping name:** POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-; Diethylmethylbenzenediamine)
- 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 Transport in bulk according to Annex II of Marpol and the IBC Code:** Not relevant

**SECTION 15: REGULATORY INFORMATION**

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

- Substances listed in UK candidate list of substances of very high concern (SVHCs): Not relevant
- Substances listed in UK REACH Authorisation List (Annex 14): Not relevant

**The Control of Major Accident Hazards Regulations 2015:**

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

**Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK 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:**

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**19270-B - Rocathaan Hotspray PA 270-FR - Base****SECTION 15: REGULATORY INFORMATION (continued)**

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.  
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.  
Control of Substances Hazardous to Health Regulations 2002 (as amended)  
EH40/2005 Workplace exposure limits.

**SECTION 16: OTHER INFORMATION****Legislation related to safety data sheets:**

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

**Texts of the legislative phrases mentioned in section 2:**

H318: Causes serious eye damage.  
H373: May cause damage to organs through prolonged or repeated exposure.  
H411: Toxic to aquatic life with long lasting effects.  
H317: May cause an allergic skin reaction.  
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

**GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567):**

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.  
Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
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. 1A: H317 - May cause an allergic skin reaction.  
Skin Sens. 1B: H317 - May cause an allergic skin reaction.  
STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure (Inhalation).  
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure.

**Classification procedure:**

Eye Dam. 1: Calculation method  
STOT RE 2: Calculation method  
Aquatic Chronic 2: Calculation method  
Skin Sens. 1A: 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:**

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

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

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at UK, 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 -