



**19690-B - Rocathaan Hotspray PA 690-AL - Base**
**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

- 1.1 Product identifier:** 19690-B - Rocathaan Hotspray PA 690-AL - 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  
 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  
 Duizeldonksestraat 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 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412  
 Eye Dam. 1: Serious eye damage, Category 1, H318  
 Skin Corr. 1: Skin corrosion, Category 1, H314  
 Skin Sens. 1A: Sensitisation, skin, Category 1A, H317
- 2.2 Label elements:**  
**CLP Regulation (EC) No 1272/2008:**  
 Danger
- 

- Hazard statements:**  
 Acute Tox. 4: H302 - Harmful if swallowed.  
 Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.  
 Skin Corr. 1: H314 - Causes severe skin burns and eye damage.  
 Skin Sens. 1A: H317 - May cause an allergic skin reaction.
- 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 water.  
 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:**  
 Contains tetraethyl N, N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate, C9-C11 Aliphatic polyether, 3-aminopropyltriethoxysilane, Dibutyltin Dilaurate.  
 EUH211: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
- Substances that contribute to the classification**

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## 19690-B - Rocathaan Hotspray PA 690-AL - Base

### SECTION 2: HAZARDS IDENTIFICATION (continued)

Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-; 3-[[3-[[[(2-cyanoethyl) amino]methyl]-3,5,5-trimethylcyclohexyl]amino]propionitrile]; Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-; maleic anhydride

**UFI:** C7P0-T01X-G005-2U25

#### 2.3 Other hazards:

Product does not meet PBT/vPvB criteria

Endocrine-disrupting properties: The product does not meet the criteria.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substance:

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: Not relevant Index: Not relevant REACH: Not relevant	<b>Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-<sup>(1)</sup></b> Self-classified	<b>25 - &lt;50 %</b>
	Regulation 1272/2008 Acute Tox. 4: H302+H312; Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Corr. 1: H314 - Danger	
CAS: 93940-97-7 EC: 300-496-1 Index: Not relevant REACH: 01-2120799836-29-XXXX	<b>3-[[3-[[[(2-cyanoethyl)amino]methyl]-3,5,5-trimethylcyclohexyl]amino]propionitrile<sup>(1)</sup></b> Self-classified	<b>25 - &lt;50 %</b>
	Regulation 1272/2008 Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Sens. 1: H317 - Warning	
CAS: 9046-10-0 EC: 618-561-0 Index: Not relevant REACH: 01-2119557899-12-XXXX	<b>Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-<sup>(1)</sup></b> Self-classified	<b>10 - &lt;25 %</b>
	Regulation 1272/2008 Acute Tox. 4: H302; Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Corr. 1C: H314 - Danger	
CAS: 136210-30-5 EC: 429-270-1 Index: 607-521-00-8 REACH: 01-0000017556-64-XXXX	<b>tetraethyl N, N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate<sup>(1)</sup></b> ATP ATP01	<b>5 - &lt;10 %</b>
	Regulation 1272/2008 Aquatic Chronic 3: H412; Skin Sens. 1: H317 - Warning	
CAS: 102-60-3 EC: 203-041-4 Index: Not relevant REACH: 01-2119552434-41-XXXX	<b>1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol<sup>(1)</sup></b> Self-classified	<b>2.5 - &lt;5 %</b>
	Regulation 1272/2008 Eye Irrit. 2: H319 - Warning	
CAS: 709014-50-6 EC: Not relevant Index: Not relevant REACH: Not relevant	<b>C9-C11 Aliphatic polyether<sup>(1)</sup></b> Self-classified	<b>&lt;1 %</b>
	Regulation 1272/2008 Skin Sens. 1: H317 - Warning	
CAS: 919-30-2 EC: 213-048-4 Index: 612-108-00-0 REACH: 01-2119480479-24-XXXX	<b>3-aminopropyltriethoxysilane<sup>(1)</sup></b> Self-classified	<b>&lt;1 %</b>
	Regulation 1272/2008 Acute Tox. 4: H302; Eye Dam. 1: H318; Skin Corr. 1B: H314; Skin Sens. 1: H317 - Danger	
CAS: 77-58-7 EC: 201-039-8 Index: 050-030-00-3 REACH: 01-2119496068-27-XXXX	<b>Dibutyltin Dilaurate<sup>(1)</sup></b> Self-classified	<b>&lt;1 %</b>
	Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Irrit. 2: H319; Muta. 2: H341; Repr. 1B: H360; Skin Sens. 1: H317; STOT RE 1: H372; STOT SE 1: H370 - Danger	
CAS: 1308-38-9 EC: 215-160-9 Index: Not relevant REACH: 01-2119433951-39-XXXX	<b>Chromium (III) oxide<sup>(2)</sup></b> Not classified	<b>&lt;1 %</b>
	Regulation 1272/2008	

















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

<sup>(2)</sup> Substance with a Union workplace exposure limit

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**19690-B - Rocathaan Hotspray PA 690-AL - Base**

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)**

Identification	Chemical name/Classification		Concentration
CAS: 108-65-6 EC: 203-603-9 Index: 607-195-00-7 REACH:01-2119475791-29-XXXX	<b>2-methoxy-1-methylethyl acetate<sup>(2)</sup></b> Self-classified		<1 %
	Regulation 1272/2008	Flam. Liq. 3: H226; STOT SE 3: H336 - Warning  	
CAS: 107-21-1 EC: 203-473-3 Index: 603-027-00-1 REACH:01-2119456816-28-XXXX	<b>Ethanedio<sup>(2)</sup></b> Self-classified		<1 %
	Regulation 1272/2008	Acute Tox. 4: H302; STOT RE 2: H373 - Warning  	
CAS: 107-98-2 EC: 203-539-1 Index: 603-064-00-3 REACH:01-2119457435-35-XXXX	<b>1-methoxy-2-propanol<sup>(2)</sup></b> ATP ATP01		<1 %
	Regulation 1272/2008	Flam. Liq. 3: H226; STOT SE 3: H336 - Warning  	
CAS: 108-31-6 EC: 203-571-6 Index: 607-096-00-9 REACH:01-2119472428-31-XXXX	<b>maleic anhydride<sup>(1)</sup></b> ATP ATP13		<1 %
	Regulation 1272/2008	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     	
CAS: 56-35-9 EC: 200-268-0 Index: 050-008-00-3 REACH:01-2119486790-28-XXXX	<b>Bis(tributyltin) oxide<sup>(1)</sup></b> ATP ATP07		<1 %
	Regulation 1272/2008	Acute Tox. 3: H301; Acute Tox. 4: H332; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Irrit. 2: H319; Repr. 1B: H360FD; Skin Irrit. 2: H315; STOT RE 1: H372 - Danger     	

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

<sup>(2)</sup> Substance with a Union workplace exposure limit

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

**Other information:**

Identification	M-factor	
Bis(tributyltin) oxide CAS: 56-35-9 EC: 200-268-0	Acute	1000
	Chronic	1000

Identification	Specific concentration limit
maleic anhydride CAS: 108-31-6 EC: 203-571-6	% (w/w) >=0.001: Skin Sens. 1A - H317
Bis(tributyltin) oxide CAS: 56-35-9 EC: 200-268-0	% (w/w) >=1: Skin Irrit. 2 - H315 % (w/w) >=1: Eye Irrit. 2 - H319 % (w/w) >=1: STOT RE 1 - H372 0.25<= % (w/w) <1: STOT RE 2 - H373

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	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation vapour	Not relevant	
Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)- CAS: 9046-10-0 EC: Not relevant	LD50 oral	500 mg/kg	
	LD50 dermal	1100 mg/kg	
	LC50 inhalation vapour	Not relevant	
3-[[3-[(2-cyanoethyl)amino]methyl]-3,5,5-trimethylcyclohexyl]amino]propionitrile CAS: 93940-97-7 EC: 300-496-1	LD50 oral	500 mg/kg	
	LD50 dermal	Not relevant	
	LC50 inhalation vapour	Not relevant	
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	
maleic anhydride CAS: 108-31-6 EC: 203-571-6	LD50 oral	1090 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation vapour	Not relevant	

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**19690-B - Rocathaan Hotspray PA 690-AL - Base**
**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)**

Identification	Acute toxicity		Genus
Bis(tributyltin) oxide CAS: 56-35-9 EC: 200-268-0	LD50 oral	87 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation vapour	11 mg/L	

**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:**

May cause an allergic skin reaction. In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes on the skin (stinging, redness, rashes, blisters), seek medical advice with this Safety Data Sheet

**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. 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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**19690-B - Rocathaan Hotspray PA 690-AL - Base**
**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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**19690-B - Rocathaan Hotspray PA 690-AL - Base**

**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		
Dibutyltin Dilaurate CAS: 77-58-7 EC: 201-039-8	WEL (8h)		0.1 mg/m <sup>3</sup>
	WEL (15 min)		0.2 mg/m <sup>3</sup>
Chromium (III) oxide CAS: 1308-38-9 EC: 215-160-9	WEL (8h)		0.5 mg/m <sup>3</sup>
	WEL (15 min)		
2-methoxy-1-methylethyl acetate <sup>(1)</sup> CAS: 108-65-6 EC: 203-603-9	WEL (8h)	50 ppm	274 mg/m <sup>3</sup>
	WEL (15 min)	100 ppm	548 mg/m <sup>3</sup>
Ethanediol <sup>(1)</sup> CAS: 107-21-1 EC: 203-473-3	WEL (8h)	20 ppm	52 mg/m <sup>3</sup>
	WEL (15 min)	40 ppm	104 mg/m <sup>3</sup>
1-methoxy-2-propanol <sup>(1)</sup> CAS: 107-98-2 EC: 203-539-1	WEL (8h)	100 ppm	375 mg/m <sup>3</sup>
	WEL (15 min)	150 ppm	560 mg/m <sup>3</sup>
maleic anhydride CAS: 108-31-6 EC: 203-571-6	WEL (8h)		1 mg/m <sup>3</sup>
	WEL (15 min)		3 mg/m <sup>3</sup>
Bis(tributyltin) oxide CAS: 56-35-9 EC: 200-268-0	WEL (8h)		0.1 mg/m <sup>3</sup>
	WEL (15 min)		0.2 mg/m <sup>3</sup>

<sup>(1)</sup> Skin

**DNEL (Workers):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
3-[[[3-[[[(2-cyanoethyl)amino]methyl]-3,5,5-trimethylcyclohexyl]amino]propionitrile] CAS: 93940-97-7 EC: 300-496-1	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	0.2 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	0.8 mg/m <sup>3</sup>	Not relevant
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 <sup>3</sup>	Not relevant
tetraethyl N, N'-(methylenedicyclohexane-4,1-diyl) bis-DL-aspartate CAS: 136210-30-5 EC: 429-270-1	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	4 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	28 mg/m <sup>3</sup>	Not relevant
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol CAS: 102-60-3 EC: 203-041-4	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	4.2 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	29.4 mg/m <sup>3</sup>	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 <sup>3</sup>	Not relevant
Dibutyltin Dilaurate CAS: 77-58-7 EC: 201-039-8	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	2.08 mg/kg	Not relevant	0.43 mg/kg	Not relevant
	Inhalation	0.059 mg/m <sup>3</sup>	Not relevant	0.02 mg/m <sup>3</sup>	Not relevant
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 <sup>3</sup>	275 mg/m <sup>3</sup>	Not relevant

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**19690-B - Rocathaan Hotspray PA 690-AL - Base**

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

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Ethanediol CAS: 107-21-1 EC: 203-473-3	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	106 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	Not relevant	35 mg/m <sup>3</sup>
1-methoxy-2-propanol CAS: 107-98-2 EC: 203-539-1	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	183 mg/kg	Not relevant
	Inhalation	553.5 mg/m <sup>3</sup>	553.5 mg/m <sup>3</sup>	369 mg/m <sup>3</sup>	Not relevant
maleic anhydride CAS: 108-31-6 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
tetraethyl N, N'-(methylenedicyclohexane-4,1-diyl) bis-DL-aspartate CAS: 136210-30-5 EC: 429-270-1	Oral	1.4 mg/kg	Not relevant	1.4 mg/kg	Not relevant
	Dermal	1.4 mg/kg	Not relevant	1.4 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	4.8 mg/m <sup>3</sup>	Not relevant
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol CAS: 102-60-3 EC: 203-041-4	Oral	Not relevant	Not relevant	2.5 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	2.5 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	8.7 mg/m <sup>3</sup>	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 <sup>3</sup>	Not relevant
Dibutyltin Dilaurate CAS: 77-58-7 EC: 201-039-8	Oral	0.02 mg/kg	Not relevant	0.003 mg/kg	Not relevant
	Dermal	0.5 mg/kg	Not relevant	0.16 mg/kg	Not relevant
	Inhalation	0.04 mg/m <sup>3</sup>	Not relevant	0.005 mg/m <sup>3</sup>	Not relevant
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 <sup>3</sup>	33 mg/m <sup>3</sup>
Ethanediol CAS: 107-21-1 EC: 203-473-3	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	53 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	Not relevant	7 mg/m <sup>3</sup>
1-methoxy-2-propanol CAS: 107-98-2 EC: 203-539-1	Oral	Not relevant	Not relevant	33 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	78 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	43.9 mg/m <sup>3</sup>	Not relevant

**PNEC:**

Identification				
3-[[[3-[(2-cyanoethyl)amino]methyl]-3,5,5-trimethylcyclohexyl]amino]propionitrile CAS: 93940-97-7 EC: 300-496-1	STP	9 mg/L	Fresh water	0.052 mg/L
	Soil	2.57 mg/kg	Marine water	0.005 mg/L
	Intermittent	0.519 mg/L	Sediment (Fresh water)	13.1 mg/kg
	Oral	Not relevant	Sediment (Marine water)	1.31 mg/kg
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
tetraethyl N, N'-(methylenedicyclohexane-4,1-diyl) bis-DL-aspartate CAS: 136210-30-5 EC: 429-270-1	STP	31.1 mg/L	Fresh water	0 mg/L
	Soil	0.1 mg/kg	Marine water	0 mg/L
	Intermittent	Not relevant	Sediment (Fresh water)	0.21 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.02 mg/kg

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



Identification				
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol CAS: 102-60-3 EC: 203-041-4	STP	70 mg/L	Fresh water	0.085 mg/L
	Soil	0.018 mg/kg	Marine water	0.009 mg/L
	Intermittent	1.51 mg/L	Sediment (Fresh water)	0.193 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.019 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
Dibutyltin Dilaurate CAS: 77-58-7 EC: 201-039-8	STP	100 mg/L	Fresh water	0 mg/L
	Soil	0.041 mg/kg	Marine water	0 mg/L
	Intermittent	0.005 mg/L	Sediment (Fresh water)	0.05 mg/kg
	Oral	0.0002 g/kg	Sediment (Marine water)	0.005 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
Ethanedial CAS: 107-21-1 EC: 203-473-3	STP	199.5 mg/L	Fresh water	10 mg/L
	Soil	1.53 mg/kg	Marine water	1 mg/L
	Intermittent	10 mg/L	Sediment (Fresh water)	37 mg/kg
	Oral	Not relevant	Sediment (Marine water)	3.7 mg/kg
1-methoxy-2-propanol CAS: 107-98-2 EC: 203-539-1	STP	100 mg/L	Fresh water	10 mg/L
	Soil	4.59 mg/kg	Marine water	1 mg/L
	Intermittent	100 mg/L	Sediment (Fresh water)	52.3 mg/kg
	Oral	Not relevant	Sediment (Marine water)	5.2 mg/kg
maleic anhydride CAS: 108-31-6 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

**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

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory respiratory tract protection	Filter mask for gases and vapours (Filter type: K)	 CAT III	EN 405:2002+A1:2010	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

C.- Specific protection for the hands

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

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



D.- Eye and face protection

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**19690-B - Rocathaan Hotspray PA 690-AL - Base**

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

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):	0.72 % weight
V.O.C. density at 20 °C:	8.23 kg/m <sup>3</sup> (8.23 g/L)
Average carbon number:	5.75
Average molecular weight:	114.57 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:	According to the markings on the package
Odour:	Characteristic
Odour threshold:	Not relevant *

**Volatility:**

Boiling point at atmospheric pressure:	192 °C
Vapour pressure at 20 °C:	137 Pa

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

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**19690-B - Rocathaan Hotspray PA 690-AL - Base**

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)**

Vapour pressure at 50 °C:	879.46 Pa (0.88 kPa)
Evaporation rate at 20 °C:	Not relevant *
<b>Product description:</b>	
Density at 20 °C:	1145.8 kg/m <sup>3</sup>
Relative density at 20 °C:	1.146
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 *
<b>Flammability:</b>	
Flash Point:	Non Flammable (>60 °C)
Flammability (solid, gas):	Not relevant *
Autoignition temperature:	250 °C
Lower flammability limit:	Not relevant *
Upper flammability limit:	Not relevant *
<b>Particle characteristics:</b>	
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:**

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

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**19690-B - Rocathaan Hotspray PA 690-AL - Base**
**SECTION 10: STABILITY AND REACTIVITY (continued)**
**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 (CO<sub>2</sub>), carbon monoxide and other organic compounds.

**SECTION 11: TOXICOLOGICAL INFORMATION**
**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:**

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

Contains glycols. It is recommended not to breathe the vapours for prolonged periods of time due to the possibility of effects that are hazardous to the health.

**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. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract

**C- Contact with the skin and the eyes (acute effect):**

- Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
- Contact with the eyes: Produces serious eye damage after contact.

**D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):**

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.  
IARC: Zeolites (3); Talc (3); Titanium dioxide (2B); Chromium (III) oxide (3)
- Mutagenicity: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with mutagenic effects. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met. However, it does 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. However, it does contain substances which are classified as dangerous as a result of a single exposure. For more information see section 3.

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

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**19690-B - Rocathaan Hotspray PA 690-AL - Base**

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

- 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, 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
Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)- CAS: 9046-10-0 EC: Not relevant	LD50 oral	500 mg/kg	
	LD50 dermal	1100 mg/kg	
	LC50 inhalation vapour	>20 mg/L	
3-[[3-[[[(2-cyanoethyl)amino]methyl]-3,5,5-trimethylcyclohexyl]amino]propionitrile CAS: 93940-97-7 EC: 300-496-1	LD50 oral	500 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation vapour	>20 mg/L	
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol CAS: 102-60-3 EC: 203-041-4	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation vapour	>20 mg/L	
tetraethyl N, N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate CAS: 136210-30-5 EC: 429-270-1	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation vapour	>20 mg/L	
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	Rat
	LD50 dermal	2979.7 mg/kg	Rabbit
	LC50 inhalation vapour	>20 mg/L	
C9-C11 Aliphatic polyether CAS: 709014-50-6 EC: Not relevant	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation vapour	>20 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	
Dibutyltin Dilaurate CAS: 77-58-7 EC: 201-039-8	LD50 oral	2071 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation vapour	>20 mg/L	
Chromium (III) oxide CAS: 1308-38-9 EC: 215-160-9	LD50 oral	5100 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation dust	>5 mg/L	
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
Ethenediol CAS: 107-21-1 EC: 203-473-3	LD50 oral	500 mg/kg	
	LD50 dermal	>3500 mg/kg	Rabbit
	LC50 inhalation vapour	>20 mg/L	
1-methoxy-2-propanol CAS: 107-98-2 EC: 203-539-1	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation vapour	>20 mg/L	
maleic anhydride CAS: 108-31-6 EC: 203-571-6	LD50 oral	1090 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation dust	>5 mg/L	

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**19690-B - Rocathaan Hotspray PA 690-AL - Base**

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

Identification	Acute toxicity		Genus
Bis(tributyltin) oxide CAS: 56-35-9 EC: 200-268-0	LD50 oral	87 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation vapour	11 mg/L	

**11.2 Information on other hazards:**

**Endocrine disrupting properties**

Endocrine-disrupting properties: The product does not meet the criteria.

**Other information**

Not relevant

**SECTION 12: ECOLOGICAL INFORMATION**

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

Harmful to aquatic life with long lasting effects.

**12.1 Toxicity:**

**Acute toxicity:**

Identification	Concentration	Species	Genus
Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)- CAS: 9046-10-0 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
3-[[3-[[[(2-cyanoethyl)amino]methyl]-3,5,5-trimethylcyclohexyl]amino]propiononitrile CAS: 93940-97-7 EC: 300-496-1	LC50 >120 mg/L (96 h)	Danio rerio	Fish
	EC50 >100 mg/L (48 h)	Daphnia magna	Crustacean
	EC50 >100 mg/L (72 h)	Desmodesmus subspicatus	Algae
Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)- CAS: 9046-10-0 EC: 618-561-0	LC50 772.14 mg/L (96 h)	N/A	Fish
	EC50 80 mg/L (48 h)	Daphnia magna	Crustacean
	EC50 15 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
tetraethyl N, N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate CAS: 136210-30-5 EC: 429-270-1	LC50 66 mg/L (96 h)	Brachydanio rerio	Fish
	EC50 88.6 mg/L (48 h)	Daphnia magna	Crustacean
	EC50 Not relevant		
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol CAS: 102-60-3 EC: 203-041-4	LC50 4600 mg/L (96 h)	Leuciscus idus	Fish
	EC50 Not relevant		
	EC50 150 mg/L (72 h)	Desmodesmus subspicatus	Algae
Dibutyltin Dilaurate CAS: 77-58-7 EC: 201-039-8	LC50 >0.1 - 1 mg/L (96 h)		Fish
	EC50 >0.1 - 1 mg/L (48 h)		Crustacean
	EC50 >0.1 - 1 mg/L (72 h)		Algae
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	LC50 161 mg/L (96 h)	Pimephales promelas	Fish
	EC50 481 mg/L (48 h)	Daphnia sp.	Crustacean
	EC50 Not relevant		
Ethenediol CAS: 107-21-1 EC: 203-473-3	LC50 53000 mg/L (96 h)	Pimephales promelas	Fish
	EC50 51000 mg/L (48 h)	Daphnia magna	Crustacean
	EC50 24000 mg/L (168 h)	Selenastrum capricornutum	Algae
1-methoxy-2-propanol CAS: 107-98-2 EC: 203-539-1	LC50 20800 mg/L (96 h)	Pimephales promelas	Fish
	EC50 23300 mg/L (48 h)	Daphnia magna	Crustacean
	EC50 1000 mg/L (168 h)	Selenastrum capricornutum	Algae
Bis(tributyltin) oxide CAS: 56-35-9 EC: 200-268-0	LC50 0.0029 mg/L (96 h)	Oncorhynchus mykiss	Fish
	EC50 Not relevant		
	EC50 Not relevant		

**Chronic toxicity:**

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**19690-B - Rocathaan Hotspray PA 690-AL - Base**

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

Identification	Concentration		Species	Genus
tetraethyl N, N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate CAS: 136210-30-5 EC: 429-270-1	NOEC	Not relevant		
	NOEC	0.013 mg/L	Daphnia magna	Crustacean
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol CAS: 102-60-3 EC: 203-041-4	NOEC	Not relevant		
	NOEC	10 mg/L	Daphnia magna	Crustacean
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	NOEC	47.5 mg/L	Oryzias latipes	Fish
	NOEC	100 mg/L	Daphnia magna	Crustacean
Bis(tributyltin) oxide CAS: 56-35-9 EC: 200-268-0	NOEC	0.00017 mg/L	Cyprinodon variegatus	Fish
	NOEC	0.00008 mg/L	Daphnia magna	Crustacean

**12.2 Persistence and degradability:**

**Substance-specific information:**

Identification	Degradability		Biodegradability	
3-[[3-[[[(2-cyanoethyl)amino]methyl]-3,5,5-trimethylcyclohexyl]amino]propionitrile CAS: 93940-97-7 EC: 300-496-1	BOD5	Not relevant	Concentration	100 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	9 %
Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)- CAS: 9046-10-0 EC: 618-561-0	BOD5	Not relevant	Concentration	17.6 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	0 %
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol CAS: 102-60-3 EC: 203-041-4	BOD5	Not relevant	Concentration	107 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	36 %
3-aminopropyltriethoxysilane CAS: 919-30-2 EC: 213-048-4	BOD5	Not relevant	Concentration	Not relevant
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	67 %
Dibutyltin Dilaurate CAS: 77-58-7 EC: 201-039-8	BOD5	0 g O2/g	Concentration	100 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	50 %
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	BOD5	Not relevant	Concentration	785 mg/L
	COD	Not relevant	Period	8 days
	BOD5/COD	Not relevant	% Biodegradable	100 %
Ethanediol CAS: 107-21-1 EC: 203-473-3	BOD5	0.47 g O2/g	Concentration	100 mg/L
	COD	1.29 g O2/g	Period	14 days
	BOD5/COD	0.36	% Biodegradable	90 %
1-methoxy-2-propanol CAS: 107-98-2 EC: 203-539-1	BOD5	Not relevant	Concentration	100 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	90 %
maleic anhydride CAS: 108-31-6 EC: 203-571-6	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	
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	
Dibutyltin Dilaurate CAS: 77-58-7 EC: 201-039-8	BCF	31
	Pow Log	3.12
	Potential	Moderate
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	BCF	1
	Pow Log	0.43
	Potential	Low

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**19690-B - Rocathaan Hotspray PA 690-AL - Base**

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

Identification	Bioaccumulation potential	
Ethenediol CAS: 107-21-1 EC: 203-473-3	BCF	10
	Pow Log	-1.36
	Potential	Low
1-methoxy-2-propanol CAS: 107-98-2 EC: 203-539-1	BCF	3
	Pow Log	-0.44
	Potential	Low
maleic anhydride CAS: 108-31-6 EC: 203-571-6	BCF	
	Pow Log	-2.61
	Potential	

**12.4 Mobility in soil:**

Identification	Absorption/desorption		Volatility	
3-[[[3-[[[(2-cyanoethyl)amino]methyl]-3,5,5-trimethylcyclohexyl]amino]propionitrile CAS: 93940-97-7 EC: 300-496-1	Koc	3867	Henry	0E+0 Pa·m <sup>3</sup> /mol
	Conclusion	Low	Dry soil	Not relevant
	Surface tension	Not relevant	Moist soil	Not relevant
Ethenediol CAS: 107-21-1 EC: 203-473-3	Koc	0	Henry	1.327E-1 Pa·m <sup>3</sup> /mol
	Conclusion	Very High	Dry soil	Not relevant
	Surface tension	4.989E-2 N/m (25 °C)	Moist soil	Not relevant
maleic anhydride CAS: 108-31-6 EC: 203-571-6	Koc	42	Henry	0E+0 Pa·m <sup>3</sup> /mol
	Conclusion	Very High	Dry soil	Not relevant
	Surface tension	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 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, HP8 Corrosive, HP6 Acute Toxicity, HP13 Sensitising

**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:**

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**19690-B - Rocathaan Hotspray PA 690-AL - Base**
**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:** II  
**14.5 Environmental hazards:** No  
**14.6 Special precautions for user**  
 Special regulations: 163, 367  
 Tunnel restriction code: E  
 Physico-Chemical properties: see section 9  
 Limited quantities: 1 L  
**14.7 Maritime transport in bulk according to IMO instruments:** Not relevant

**Transport of dangerous goods by sea:**

With regard to IMDG 41-22:



- 14.1 UN number or ID number:** UN3066  
**14.2 UN proper shipping name:** PAINT RELATED MATERIAL  
**14.3 Transport hazard class (es):** 8  
 Labels: 8  
**14.4 Packing group:** II  
**14.5 Marine pollutant:** No  
**14.6 Special precautions for user**  
 Special regulations: 163, 367  
 EmS Codes: F-A, S-B  
 Physico-Chemical properties: see section 9  
 Limited quantities: 1 L  
 Segregation group: Not relevant  
**14.7 Maritime transport in bulk according to IMO instruments:** Not relevant

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2025:



- 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:** II  
**14.5 Environmental hazards:** No  
**14.6 Special precautions for user**  
 Physico-Chemical properties: see section 9  
**14.7 Maritime transport in bulk according to IMO instruments:** Not relevant

**SECTION 15: REGULATORY INFORMATION**

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

- CONTINUED ON NEXT PAGE -

**19690-B - Rocathaan Hotspray PA 690-AL - Base**
**SECTION 15: REGULATORY INFORMATION (continued)**

- Article 95, REGULATION (EU) No 528/2012: Not relevant
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): *Bis(tributyltin) oxide* (56-35-9)
- Regulation (EU) 2019/1021 on persistent organic pollutants: 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: *Dibutyltin Dilaurate* (77-58-7) ; *Bis(tributyltin) oxide* (56-35-9)
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

**Seveso III:**

Not relevant

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

Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

**Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

**Other legislation:**

The 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.:**

Not relevant

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

H318: Causes serious eye damage.  
 H412: Harmful to aquatic life with long lasting effects.  
 H314: Causes severe skin burns and eye damage.  
 H317: May cause an allergic skin reaction.  
 H302: Harmful if swallowed.

**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:**

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**19690-B - Rocathaan Hotspray PA 690-AL - Base**
**SECTION 16: OTHER INFORMATION (continued)**

Acute Tox. 3: H301 - Toxic if swallowed.  
 Acute Tox. 4: H302 - Harmful if swallowed.  
 Acute Tox. 4: H302+H312 - Harmful if swallowed or in contact with skin.  
 Acute Tox. 4: H332 - Harmful if inhaled.  
 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.  
 Muta. 2: H341 - Suspected of causing genetic defects.  
 Repr. 1B: H360 - May damage fertility or the unborn child.  
 Repr. 1B: H360FD - May impair fertility. May damage the foetus.  
 Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 Skin Corr. 1: H314 - Causes severe skin burns and eye damage.  
 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.  
 STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure (Inhalation).  
 STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure.  
 STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure. (Oral).  
 STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral).  
 STOT SE 1: H370 - Causes damage to organs.  
 STOT SE 3: H336 - May cause drowsiness or dizziness.

**Classification procedure:**

Eye Dam. 1: Calculation method  
 Aquatic Chronic 3: Calculation method  
 Skin Corr. 1: Calculation method  
 Skin Sens. 1A: Calculation method  
 Acute Tox. 4: Calculation method

**Advice related to training:**

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

**Principal bibliographical sources:**

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

**Abbreviations and acronyms:**

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

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -