16220-B - ProFast Topcoat 70-C - Base

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: 16220-B - ProFast Topcoat 70-C - Base

bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane

CAS: 136210-32-7

EC: 412-060-9

Index: 607-350-00-9

REACH: 01-0000015937-58-XXXX

Other means of identification:

Not relevant

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

Relevant uses: Base for Topcoatings. 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.

Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411
Flam. Liq. 3: Flammable liquids, Category 3, H226
Skin Sens. 1A: Sensitisation, skin, Category 1A, H317

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Warning

Hazard statements:

Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
Flam. Liq. 3: H226 - Flammable liquid and vapour.
Skin Sens. 1A: H317 - May cause an allergic skin reaction.

Precautionary statements:

P210: Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P233: Keep container tightly closed.
P261: Avoid breathing vapours
P280: Wear protective gloves/protective clothing/respiratory protection/eye protection/protective footwear.
P302+P352: IF ON SKIN: Wash with plenty of water.
P370+P378: In case of fire: Use Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC) to extinguish.
P403+P235: Store in a well-ventilated place. Keep cool.
P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

Supplementary information:

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SECTION 2: HAZARDS IDENTIFICATION (continued)

Contains 3-aminopropyltriethoxysilane, Acrylic polymer, bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane, C9-C11 Aliphatic polyether, tetraethyl N, N´-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate.

Substances that contribute to the classification

maleic anhydride (CAS: 108-31-6)

UFI: 1R40-M0HQ-P005-295S

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:

Chemical description: Mixture composed of additives and Aspartic Ester Resin

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

Identification	Chemical name/Classification		Concentration
CAS: 136210-32-7 EC: 412-060-9 Index: 607-350-00-9 REACH: 01-0000015937-58-XXXX	**bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl) methane**[1]	ATP CLP00	**10 - <25 %**
	Regulation 1272/2008	Aquatic Chronic 3: H412; Skin Sens. 1: H317 - Warning	
CAS: 7779-90-0 EC: 231-944-3 Index: Non-applicable REACH: 01-2119485044-40-XXXX	**trizinc bis(orthophosphate)**[2]	ATP CLP00	**10 - <25 %**
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning	
CAS: 123-86-4 EC: 204-658-1 Index: 607-025-00-1 REACH: 01-2119485493-29-XXXX	**N-butyl acetate**[2]	ATP CLP00	**5 - <10 %**
	Regulation 1272/2008	Flam. Liq. 3: H226; STOT SE 3: H336; EUH066 - Warning	
CAS: 136210-30-5 EC: 429-270-1 Index: 607-521-00-8 REACH: 01-0000017556-64-XXXX	**tetraethyl N, N´-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate**[2]	ATP ATP01	**5 - <10 %**
	Regulation 1272/2008	Aquatic Chronic 3: H412; Skin Sens. 1: H317 - Warning	
CAS: Non-applicable EC: Non-applicable Index: Non-applicable REACH: Non-applicable	**Acrylic polymer**[2]	Self-classified	**5 - <10 %**
	Regulation 1272/2008	Eye Irrit. 2: H319; Skin Sens. 1B: H317 - Warning	
CAS: 128601-23-0 EC: 918-668-5 Index: Non-applicable REACH: 01-2119455851-35-XXXX	**Hydrocarbons, C9, aromatics**[2]	Self-classified	**2.5 - <5 %**
	Regulation 1272/2008	Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 3: H226; STOT SE 3: H335; STOT SE 3: H336; EUH066 - Danger	
CAS: 25640-78-2 EC: 247-156-8 Index: Non-applicable REACH: 01-2119982993-17-XXXX	**(1-methylethyl)-1,1´-biphenyl**[2]	Self-classified	**2.5 - <5 %**
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Eye Irrit. 2: H319 - Danger	
CAS: 709014-50-6 EC: Non-applicable Index: Non-applicable REACH: Non-applicable	**C9-C11 Aliphatic polyether**[2]	Self-classified	**1 - <2.5 %**
	Regulation 1272/2008	Skin Sens. 1: H317 - Warning	
CAS: 1314-13-2 EC: 215-222-5 Index: 030-013-00-7 REACH: 01-2119463881-32-XXXX	**zinc oxide**[2]	ATP CLP00	**<1 %**
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning	
CAS: 919-30-2 EC: 213-048-4 Index: 612-108-00-0 REACH: 01-2119480479-24-XXXX	**3-aminopropyltriethoxysilane**[2]	Self-classified	**<1 %**
	Regulation 1272/2008	Acute Tox. 4: H302; Eye Dam. 1: H318; Skin Corr. 1B: H314; Skin Sens. 1: H317 - Danger	

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

** *Changes with regards to the previous version*

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

Identification	Chemical name/Classification		Concentration
CAS: 108-31-6 EC: 203-571-6 Index: 607-096-00-9 REACH: 01-2119472428-31-XXXX	**maleic anhydride**[2] 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 	

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

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

Other information:

Identification	Specific concentration limit
maleic anhydride CAS: 108-31-6 EC: 203-571-6	% (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
3-aminopropyltriethoxysilane	LD50 oral	1491 mg/kg	Rat
CAS: 919-30-2	LD50 dermal	Not relevant	
EC: 213-048-4	LC50 inhalation	Not relevant	
maleic anhydride	LD50 oral	1090 mg/kg	Rat
CAS: 108-31-6	LD50 dermal	Not relevant	
EC: 203-571-6	LC50 inhalation	Not relevant	

3.2 Mixture:

Non-applicable

*** Changes with regards to the previous version*

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

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

By eye contact:

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

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC)

Unsuitable extinguishing media:

Water jet

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,...) in accordance with Directive 89/654/EC.

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:

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:

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. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

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

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SECTION 7: HANDLING AND STORAGE (continued)

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,…) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137 / The Dangerous Substances and Explosive Atmospheres Regulations 2002, 2002 No. 2776). 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 ºC

Maximum Temp.: 30 ºC

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 assessed in the workplace:

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

Identification	Occupational exposure limits		
N-butyl acetate	WEL (8h)	150 ppm	724 mg/m³
CAS: 123-86-4 EC: 204-658-1	WEL (15 min)	200 ppm	966 mg/m³
maleic anhydride	WEL (8h)		1 mg/m³
CAS: 108-31-6 EC: 203-571-6	WEL (15 min)		3 mg/m³

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 136210-32-7	Dermal	Not relevant	Not relevant	11.9 mg/kg	Not relevant
EC: 412-060-9	Inhalation	Not relevant	Not relevant	84 mg/m³	Not relevant
trizinc bis(orthophosphate)	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 7779-90-0	Dermal	Not relevant	Not relevant	83 mg/kg	Not relevant
EC: 231-944-3	Inhalation	Not relevant	Not relevant	5 mg/m³	Not relevant
N-butyl acetate	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 123-86-4	Dermal	11 mg/kg	Not relevant	11 mg/kg	Not relevant
EC: 204-658-1	Inhalation	600 mg/m³	600 mg/m³	300 mg/m³	300 mg/m³

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
tetraethyl N, N´-(methylenedicyclohexane-4,1-diyl) bis-DL-aspartate	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 136210-30-5	Dermal	Not relevant	Not relevant	4 mg/kg	Not relevant
EC: 429-270-1	Inhalation	Not relevant	Not relevant	28 mg/m³	Not relevant
Hydrocarbons, C9, aromatics	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 128601-23-0	Dermal	Not relevant	Not relevant	25 mg/kg	Not relevant
EC: 918-668-5	Inhalation	Not relevant	Not relevant	150 mg/m³	Not relevant
(1-methylethyl)-1,1´-biphenyl	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 25640-78-2	Dermal	Not relevant	Not relevant	2 mg/kg	Not relevant
EC: 247-156-8	Inhalation	Not relevant	Not relevant	7.05 mg/m³	Not relevant
zinc oxide	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 1314-13-2	Dermal	Not relevant	Not relevant	83 mg/kg	Not relevant
EC: 215-222-5	Inhalation	Not relevant	Not relevant	5 mg/m³	0.5 mg/m³
3-aminopropyltriethoxysilane	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 919-30-2	Dermal	Not relevant	Not relevant	2 mg/kg	Not relevant
EC: 213-048-4	Inhalation	Not relevant	Not relevant	14 mg/m³	Not relevant
maleic anhydride	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 108-31-6	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 203-571-6	Inhalation	0.2 mg/m³	0.2 mg/m³	0.081 mg/m³	0.081 mg/m³

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane	Oral	4.2 mg/kg	Not relevant	4.2 mg/kg	Not relevant
CAS: 136210-32-7	Dermal	4.2 mg/kg	Not relevant	4.2 mg/kg	Not relevant
EC: 412-060-9	Inhalation	Not relevant	Not relevant	14.5 mg/m³	Not relevant
trizinc bis(orthophosphate)	Oral	Not relevant	Not relevant	0.83 mg/kg	Not relevant
CAS: 7779-90-0	Dermal	Not relevant	Not relevant	83 mg/kg	Not relevant
EC: 231-944-3	Inhalation	Not relevant	Not relevant	2.5 mg/m³	Not relevant
N-butyl acetate	Oral	2 mg/kg	Not relevant	2 mg/kg	Not relevant
CAS: 123-86-4	Dermal	6 mg/kg	Not relevant	6 mg/kg	Not relevant
EC: 204-658-1	Inhalation	300 mg/m³	300 mg/m³	35.7 mg/m³	35.7 mg/m³
tetraethyl N, N´-(methylenedicyclohexane-4,1-diyl) bis-DL-aspartate	Oral	1.4 mg/kg	Not relevant	1.4 mg/kg	Not relevant
CAS: 136210-30-5	Dermal	1.4 mg/kg	Not relevant	1.4 mg/kg	Not relevant
EC: 429-270-1	Inhalation	Not relevant	Not relevant	4.8 mg/m³	Not relevant
Hydrocarbons, C9, aromatics	Oral	Not relevant	Not relevant	11 mg/kg	Not relevant
CAS: 128601-23-0	Dermal	Not relevant	Not relevant	11 mg/kg	Not relevant
EC: 918-668-5	Inhalation	Not relevant	Not relevant	32 mg/m³	Not relevant
zinc oxide	Oral	Not relevant	Not relevant	0.83 mg/kg	Not relevant
CAS: 1314-13-2	Dermal	Not relevant	Not relevant	83 mg/kg	Not relevant
EC: 215-222-5	Inhalation	Not relevant	Not relevant	2.5 mg/m³	Not relevant
3-aminopropyltriethoxysilane	Oral	Not relevant	Not relevant	1 mg/kg	Not relevant
CAS: 919-30-2	Dermal	Not relevant	Not relevant	1 mg/kg	Not relevant
EC: 213-048-4	Inhalation	Not relevant	Not relevant	3.5 mg/m³	Not relevant

PNEC:

Identification				
bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane	STP	31.1 mg/L	Fresh water	0 mg/L
CAS: 136210-32-7	Soil	0.1 mg/kg	Marine water	0 mg/L
EC: 412-060-9	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				
trizinc bis(orthophosphate)	STP	0.1 mg/L	Fresh water	0.0206 mg/L
CAS: 7779-90-0	Soil	35.6 mg/kg	Marine water	0.0061 mg/L
EC: 231-944-3	Intermittent	Not relevant	Sediment (Fresh water)	117.8 mg/kg
	Oral	Not relevant	Sediment (Marine water)	56.5 mg/kg
N-butyl acetate	STP	35.6 mg/L	Fresh water	0.18 mg/L
CAS: 123-86-4	Soil	0.09 mg/kg	Marine water	0.018 mg/L
EC: 204-658-1	Intermittent	0.36 mg/L	Sediment (Fresh water)	0.981 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.098 mg/kg
tetraethyl N, N´-(methylenedicyclohexane-4,1-diyl) bis-DL-aspartate	STP	31.1 mg/L	Fresh water	0 mg/L
CAS: 136210-30-5	Soil	0.1 mg/kg	Marine water	0 mg/L
EC: 429-270-1	Intermittent	Not relevant	Sediment (Fresh water)	0.21 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.02 mg/kg
(1-methylethyl)-1,1´-biphenyl	STP	2 mg/L	Fresh water	0.00054 mg/L
CAS: 25640-78-2	Soil	0.2699 mg/kg	Marine water	0.000054 mg/L
EC: 247-156-8	Intermittent	0.003 mg/L	Sediment (Fresh water)	1.355 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.1355 mg/kg
zinc oxide	STP	0.1 mg/L	Fresh water	0.0206 mg/L
CAS: 1314-13-2	Soil	35.6 mg/kg	Marine water	0.0061 mg/L
EC: 215-222-5	Intermittent	Not relevant	Sediment (Fresh water)	117.8 mg/kg
	Oral	Not relevant	Sediment (Marine water)	56.5 mg/kg
3-aminopropyltriethoxysilane	STP	1.3 mg/L	Fresh water	Not relevant
CAS: 919-30-2	Soil	Not relevant	Marine water	Not relevant
EC: 213-048-4	Intermittent	Not relevant	Sediment (Fresh water)	Not relevant
	Oral	Not relevant	Sediment (Marine water)	Not relevant
maleic anhydride	STP	44.6 mg/L	Fresh water	0.038 mg/L
CAS: 108-31-6	Soil	0.037 mg/kg	Marine water	0.004 mg/L
EC: 203-571-6	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	CE 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: Butyl, Breakthrough time: > 480 min, Thickness: 0.7 mm)	CE CAT III	EN ISO 21420:2020	Replace the gloves at any sign of deterioration.

D.- Eye and face protection

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Panoramic glasses against splash/projections.	CE CAT II	EN 166:2002 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	Antistatic and fireproof protective clothing	CE CAT III	EN 1149-1:2007 EN 1149-2:1998 EN 1149-3:2004 UNE-EN ISO 18526-1 al 4:2020 EN ISO 14116:2015 EN 1149-5:2018	Limited protection against flames.
 Mandatory foot protection	Safety footwear with antistatic and heat resistant properties	CE CAT III	EN ISO 13287:2020 EN ISO 20345:2022	Replace boots at any sign of deterioration.

F.- Additional emergency measures

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:

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

Volatile organic compounds:

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

V.O.C. (Supply):	12.83 % weight
V.O.C. density at 20 ºC:	183.55 kg/m³ (183.55 g/L)
Average carbon number:	6.98
Average molecular weight:	117.53 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 ºC:	Liquid
Appearance:	Characteristic
Colour:	Grey
Odour:	Characteristic
Odour threshold:	Not relevant *

Volatility:

Boiling point at atmospheric pressure:	139 - 249 ºC
Vapour pressure at 20 ºC:	675 Pa
Vapour pressure at 50 ºC:	3400.67 Pa (3.4 kPa)
Evaporation rate at 20 ºC:	Not relevant *

Product description:

*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)

Density at 20 ºC:	1430.8 kg/m³
Relative density at 20 ºC:	1.431
Dynamic viscosity at 20 ºC:	Not relevant *
Kinematic viscosity at 20 ºC:	Not relevant *
Kinematic viscosity at 40 ºC:	Not relevant *
Concentration:	Not relevant *
pH:	Not relevant *
Vapour density at 20 ºC:	Not relevant *
Partition coefficient n-octanol/water 20 ºC:	Not relevant *
Solubility in water at 20 ºC:	Not relevant *
Solubility properties:	Not relevant *
Decomposition temperature:	Not relevant *
Melting point/freezing point:	Not relevant *
Flammability:	
Flash Point:	33 ºC
Flammability (solid, gas):	Not relevant *
Autoignition temperature:	300 ºC
Lower flammability limit:	Not available
Upper flammability limit:	Not available
Particle characteristics:	
Median equivalent diameter:	Non-applicable

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 ºC:	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	Risk of combustion	Avoid direct impact	Not applicable

- CONTINUED ON NEXT PAGE -

SECTION 10: STABILITY AND REACTIVITY (continued)

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	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_2), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION **

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

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

Dangerous health implications:

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

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: 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.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract

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

- Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for skin contact. For more information see section 3.
- Contact with the eyes: 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.

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: Hydrocarbons, C9, aromatics (3); 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. However, it contains substances classified as hazardous for inhalation. For more information see section 3.

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

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met. However, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see section 3.

H- Aspiration hazard:

** *Changes with regards to the previous version*

- CONTINUED ON NEXT PAGE -

SECTION 11: TOXICOLOGICAL INFORMATION ** (continued)

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.

Other information:

Not relevant

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
tetraethyl N, N´-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate	LD50 oral	>2000 mg/kg	
CAS: 136210-30-5	LD50 dermal	>2000 mg/kg	
EC: 429-270-1	LC50 inhalation	>20 mg/L	
bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane	LD50 oral	>2000 mg/kg	
CAS: 136210-32-7	LD50 dermal	>2000 mg/kg	
EC: 412-060-9	LC50 inhalation	>20 mg/L	
Hydrocarbons, C9, aromatics	LD50 oral	>2000 mg/kg	
CAS: 128601-23-0	LD50 dermal	>2000 mg/kg	
EC: 918-668-5	LC50 inhalation	>20 mg/L	
Acrylic polymer	LD50 oral	>2000 mg/kg	
CAS: Non-applicable	LD50 dermal	>2000 mg/kg	
EC: Non-applicable	LC50 inhalation		
(1-methylethyl)-1,1´-biphenyl	LD50 oral	4650 mg/kg	Rat
CAS: 25640-78-2	LD50 dermal	>5000 mg/kg	Rabbit
EC: 247-156-8	LC50 inhalation	>20 mg/L	
trizinc bis(orthophosphate)	LD50 oral	>2000 mg/kg	
CAS: 7779-90-0	LD50 dermal	>2000 mg/kg	
EC: 231-944-3	LC50 inhalation	>5 mg/L	
N-butyl acetate	LD50 oral	12789 mg/kg	Rat
CAS: 123-86-4	LD50 dermal	14112 mg/kg	Rabbit
EC: 204-658-1	LC50 inhalation	23.4 mg/L (4 h)	Rat
C9-C11 Aliphatic polyether	LD50 oral	>2000 mg/kg	
CAS: 709014-50-6	LD50 dermal	>2000 mg/kg	
EC: Non-applicable	LC50 inhalation		
zinc oxide	LD50 oral	7950 mg/kg	Mouse
CAS: 1314-13-2	LD50 dermal	>2000 mg/kg	
EC: 215-222-5	LC50 inhalation	>5 mg/L	
3-aminopropyltriethoxysilane	LD50 oral	1491 mg/kg	Rat
CAS: 919-30-2	LD50 dermal	4000 mg/kg	Rabbit
EC: 213-048-4	LC50 inhalation	>20 mg/L	
maleic anhydride	LD50 oral	1090 mg/kg	Rat
CAS: 108-31-6	LD50 dermal	>2000 mg/kg	
EC: 203-571-6	LC50 inhalation	>5 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

*** Changes with regards to the previous version*

SECTION 12: ECOLOGICAL INFORMATION

Toxic to aquatic life with long lasting effects.

12.1 Toxicity:

Acute toxicity:

- CONTINUED ON NEXT PAGE -

SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Concentration		Species	Genus
bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane	LC50	>10 - 100 mg/L (96 h)		Fish
CAS: 136210-32-7	EC50	>10 - 100 mg/L (48 h)		Crustacean
EC: 412-060-9	EC50	>10 - 100 mg/L (72 h)		Algae
trizinc bis(orthophosphate)	LC50	>0.1 - 1 mg/L (96 h)		Fish
CAS: 7779-90-0	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
EC: 231-944-3	EC50	>0.1 - 1 mg/L (72 h)		Algae
N-butyl acetate	LC50	Not relevant		
CAS: 123-86-4	EC50	Not relevant		
EC: 204-658-1	EC50	675 mg/L (72 h)	Scenedesmus subspicatus	Algae
tetraethyl N, N´-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate	LC50	66 mg/L (96 h)	Brachydanio rerio	Fish
CAS: 136210-30-5	EC50	88.6 mg/L (48 h)	Daphnia magna	Crustacean
EC: 429-270-1	EC50	Not relevant		
Hydrocarbons, C9, aromatics	LC50	>1 - 10 mg/L (96 h)		Fish
CAS: 128601-23-0	EC50	>1 - 10 mg/L (48 h)		Crustacean
EC: 918-668-5	EC50	>1 - 10 mg/L (72 h)		Algae
(1-methylethyl)-1,1´-biphenyl	LC50	0.6 mg/L (96 h)	Oryzias latipes	Fish
CAS: 25640-78-2	EC50	0.24 mg/L (48 h)	Daphnia magna	Crustacean
EC: 247-156-8	EC50	>100 mg/L (72 h)	Desmodesmus subspicatus	Algae
zinc oxide	LC50	0.82 mg/L (96 h)	Oncorhynchus kisutch	Fish
CAS: 1314-13-2	EC50	3.4 mg/L (48 h)	Daphnia magna	Crustacean
EC: 215-222-5	EC50	Not relevant		

Chronic toxicity:

Identification	Concentration		Species	Genus
N-butyl acetate	NOEC	Not relevant		
CAS: 123-86-4 EC: 204-658-1	NOEC	23.2 mg/L	Daphnia magna	Crustacean
tetraethyl N, N´-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate	NOEC	Not relevant		
CAS: 136210-30-5 EC: 429-270-1	NOEC	0.013 mg/L	Daphnia magna	Crustacean
(1-methylethyl)-1,1´-biphenyl	NOEC	Not relevant		
CAS: 25640-78-2 EC: 247-156-8	NOEC	0.028 mg/L	Daphnia magna	Crustacean
zinc oxide	NOEC	0.44 mg/L	Oncorhynchus mykiss	Fish
CAS: 1314-13-2 EC: 215-222-5	NOEC	0.031 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability		Biodegradability	
N-butyl acetate	BOD5	Not relevant	Concentration	Not relevant
CAS: 123-86-4	COD	Not relevant	Period	5 days
EC: 204-658-1	BOD5/COD	Not relevant	% Biodegradable	84 %
(1-methylethyl)-1,1´-biphenyl	BOD5	Not relevant	Concentration	19.65 mg/L
CAS: 25640-78-2	COD	Not relevant	Period	28 days
EC: 247-156-8	BOD5/COD	Not relevant	% Biodegradable	60 %
3-aminopropyltriethoxysilane	BOD5	Not relevant	Concentration	Not relevant
CAS: 919-30-2	COD	Not relevant	Period	28 days
EC: 213-048-4	BOD5/COD	Not relevant	% Biodegradable	67 %
maleic anhydride	BOD5	Not relevant	Concentration	33.33 mg/L
CAS: 108-31-6	COD	Not relevant	Period	29 days
EC: 203-571-6	BOD5/COD	Not relevant	% Biodegradable	98.19 %

12.3 Bioaccumulative potential:

Substance-specific information:

- CONTINUED ON NEXT PAGE -

SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Bioaccumulation potential	
N-butyl acetate	BCF	4
CAS: 123-86-4	Pow Log	1.78
EC: 204-658-1	Potential	Low
(1-methylethyl)-1,1´-biphenyl	BCF	2896
CAS: 25640-78-2	Pow Log	5.33
EC: 247-156-8	Potential	Very High
maleic anhydride	BCF	
CAS: 108-31-6	Pow Log	-2.61
EC: 203-571-6	Potential	

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
N-butyl acetate	Koc	Not relevant	Henry	Not relevant
CAS: 123-86-4	Conclusion	Not relevant	Dry soil	Not relevant
EC: 204-658-1	Surface tension	2.478E-2 N/m (25 ºC)	Moist soil	Not relevant
(1-methylethyl)-1,1´-biphenyl	Koc	25055	Henry	173.3 Pa·m³/mol
CAS: 25640-78-2	Conclusion	Immobile	Dry soil	Yes
EC: 247-156-8	Surface tension	Not relevant	Moist soil	Yes
maleic anhydride	Koc	42	Henry	0E+0 Pa·m³/mol
CAS: 108-31-6	Conclusion	Very High	Dry soil	Not relevant
EC: 203-571-6	Surface tension	1.673E-2 N/m (250.21 ºC)	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, HP3 Flammable, 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:
With regard to ADR 2023 and RID 2023:

- CONTINUED ON NEXT PAGE -

SECTION 14: TRANSPORT INFORMATION (continued)

14.1 UN number or ID number: UN1263
14.2 UN proper shipping name: PAINT RELATED MATERIAL
14.3 Transport hazard class (es): 3
Labels: 3
14.4 Packing group: III
14.5 Environmental hazards: Yes
14.6 Special precautions for user
Special regulations: 163, 367, 650
Tunnel restriction code: D/E
Physico-Chemical properties: see section 9
Limited quantities: 5 L
14.7 Maritime transport in bulk according to IMO instruments: Not relevant

Transport of dangerous goods by sea:

With regard to IMDG 41-22:

14.1 UN number or ID number: UN1263
14.2 UN proper shipping name: PAINT RELATED MATERIAL
14.3 Transport hazard class (es): 3
Labels: 3
14.4 Packing group: III
14.5 Marine pollutant: Yes
14.6 Special precautions for user
Special regulations: 163, 223, 955, 367
EmS Codes: F-E, S-E
Physico-Chemical properties: see section 9
Limited quantities: 5 L
Segregation group: Not relevant
14.7 Maritime transport in bulk according to IMO instruments: Not relevant

Transport of dangerous goods by air:

With regard to IATA/ICAO 2024:

14.1 UN number or ID number: UN1263
14.2 UN proper shipping name: PAINT RELATED MATERIAL
14.3 Transport hazard class (es): 3
Labels: 3
14.4 Packing group: III
14.5 Environmental hazards: Yes
14.6 Special precautions for user
Physico-Chemical properties: see section 9
14.7 Maritime transport in bulk according to IMO instruments: Not relevant

SECTION 15: REGULATORY INFORMATION

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

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SECTION 15: REGULATORY INFORMATION (continued)

- Article 95, REGULATION (EU) No 528/2012: Not relevant
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- Regulation (EU) 2024/590, about substances that deplete the ozone layer: Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

Seveso III:

Section	Description	Lower-tier requirements	Upper-tier requirements
P5c	FLAMMABLE LIQUIDS	5000	50000
E2	ENVIRONMENTAL HAZARDS	200	500

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

Shall not be used in:
—ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
—tricks and jokes,
—games for one or more participants, or any article intended to be used as such, even with ornamental aspects.
Occupational exposure to respirable crystalline silica must be controlled pursuant to Directive (EU) 2019/130.

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.:

COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11):
· New declared substances
Acrylic polymer
· Removed substances
Acrylic copolymer
CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):
· Substances contained in EUH208:
· New declared substances
Acrylic polymer
· Removed substances
Acrylic copolymer

Texts of the legislative phrases mentioned in section 2:

H317: May cause an allergic skin reaction.
H411: Toxic to aquatic life with long lasting effects.
H226: Flammable liquid and vapour.

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:

- CONTINUED ON NEXT PAGE -

SECTION 16: OTHER INFORMATION (continued)

Acute Tox. 4: H302 - Harmful if swallowed.
Aquatic Acute 1: H400 - Very toxic to aquatic life.
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.
Eye Dam. 1: H318 - Causes serious eye damage.
Eye Irrit. 2: H319 - Causes serious eye irritation.
Flam. Liq. 3: H226 - Flammable liquid and vapour.
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 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 SE 3: H335 - May cause respiratory irritation.
STOT SE 3: H336 - May cause drowsiness or dizziness.

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

- END OF SAFETY DATA SHEET -