STOPGAP F77 HARDENER

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

1.1 Product identifier: STOPGAP F77 HARDENER

Other means of identification:

Not relevant

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

Relevant uses: Floor coating.. 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:

F. Ball and Co. Ltd.
Churnetside Business Park, Station Road
ST13 7RS Cheddleton - Leek - England
Phone: +44(0) 1538 361633
msds@f-ball.co.uk
www.f-ball.com

F. Ball and Co (Europe) Limited
109 Cork Street,
The Liberties,
D08 X279,
Dublin 8,
Co. Dublin,
Ireland

1.4 Emergency telephone number: +353 1 809 2166

SECTION 2: HAZARDS IDENTIFICATION **

2.1 Classification of the substance or mixture:

CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Acute Tox. 4: Acute toxicity if swallowed, Category 4, H302
Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411
Skin Corr. 1B: Skin corrosion, Category 1B, 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 2: H411 - Toxic to aquatic life with long lasting effects.
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
Skin Sens. 1A: H317 - May cause an allergic skin reaction.

Precautionary statements:

P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313: IF exposed or concerned: Get medical advice/attention.

Supplementary information:

*** Changes with regards to the previous version*

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SECTION 2: HAZARDS IDENTIFICATION ** (continued)

EUH071: Corrosive to the respiratory tract.
Contains 3-aminomethyl-3,5,5-trimethylcyclohexylamine, Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine, Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine, m-phenylenebis(methylamine), N´-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine.

UFI: FU50-90K9-600T-DV4X

2.3 Other hazards:

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

*** Changes with regards to the previous version*

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Mixture composed of organic substances

Components:

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

Identification	Chemical name/Classification		Concentration
CAS: 100-51-6 EC: 202-859-9 Index: 603-057-00-5 REACH: 01-2119492630-38-XXXX	**benzyl alcohol**[1]	ATP CLP00	**10 - <30 %**
	Regulation 1272/2008	Acute Tox. 4: H302+H332 - Warning	
CAS: 68082-29-1 EC: 500-191-5 Index: Non-applicable REACH: 01-2119972320-44-XXXX	**Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine**[1]	Self-classified	**10 - <30 %**
	Regulation 1272/2008	Aquatic Chronic 2: H411; Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1A: H317 - Danger	
CAS: 90-72-2 EC: 202-013-9 Index: 603-069-00-0 REACH: 01-2119560597-27-XXXX	**2,4,6-tris(dimethylaminomethyl)phenol**[1]	ATP CLP00	**10 - <30 %**
	Regulation 1272/2008	Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning	
CAS: 186321-96-0 EC: 606-078-8 Index: Non-applicable REACH: 01-2119983521-35-XXXX	**Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine**[1]	Self-classified	**10 - <30 %**
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger	
CAS: 1477-55-0 EC: 216-032-5 Index: Non-applicable REACH: 01-2119480150-50-XXXX	**m-phenylenebis(methylamine)**[1]	Self-classified	**2.5 - <10 %**
	Regulation 1272/2008	Acute Tox. 4: H302+H332; Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Corr. 1B: H314; Skin Sens. 1B: H317; EUH071 - Danger	
CAS: 2855-13-2 EC: 220-666-8 Index: 612-067-00-9 REACH: 01-2119514687-32-XXXX	**3-aminomethyl-3,5,5-trimethylcyclohexylamine**[1]	ATP ATP17	**2.5 - <10 %**
	Regulation 1272/2008	Acute Tox. 4: H302; Eye Dam. 1: H318; Skin Corr. 1B: H314; Skin Sens. 1A: H317 - Danger	
CAS: 10563-29-8 EC: 234-148-4 Index: Non-applicable REACH: 01-2119970376-29-XXXX	**N´-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine**[1]	Self-classified	**2.5 - <10 %**
	Regulation 1272/2008	Acute Tox. 4: H302; Eye Dam. 1: H318; Skin Corr. 1A: H314; Skin Sens. 1B: H317 - Danger	
CAS: 69-72-7 EC: 200-712-3 Index: 607-732-00-5 REACH: 01-2119486984-17-XXXX	**Salicylic acid**[1]	ATP ATP13	**<1 %**
	Regulation 1272/2008	Acute Tox. 4: H302; Eye Dam. 1: H318; Repr. 2: H361d - Danger	

[1] 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:

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Identification	Specific concentration limit
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS: 2855-13-2 EC: 220-666-8	% (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
benzyl alcohol	LD50 oral	500 mg/kg	Rat
CAS: 100-51-6	LD50 dermal	Not relevant	
EC: 202-859-9	LC50 inhalation	11 mg/L (ATEi)	
m-phenylenebis(methylamine)	LD50 oral	1090 mg/kg	Rat
CAS: 1477-55-0	LD50 dermal	Not relevant	
EC: 216-032-5	LC50 inhalation	11 mg/L (ATEi)	
3-aminomethyl-3,5,5-trimethylcyclohexylamine	LD50 oral	1030 mg/kg	Rat
CAS: 2855-13-2	LD50 dermal	Not relevant	
EC: 220-666-8	LC50 inhalation	Not relevant	
2,4,6-tris(dimethylaminomethyl)phenol	LD50 oral	1200 mg/kg	Rat
CAS: 90-72-2	LD50 dermal	Not relevant	
EC: 202-013-9	LC50 inhalation	Not relevant	
N´-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine	LD50 oral	1668 mg/kg	Rat
CAS: 10563-29-8	LD50 dermal	Not relevant	
EC: 234-148-4	LC50 inhalation	Not relevant	
Salicylic acid	LD50 oral	891 mg/kg	Rat
CAS: 69-72-7	LD50 dermal	Not relevant	
EC: 200-712-3	LC50 inhalation	Not relevant	

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

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

By inhalation:

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

By skin contact:

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

By eye contact:

Rinse eyes thoroughly with 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

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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

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

Unsuitable extinguishing media:

Non-applicable

5.2 Special hazards arising from the substance or mixture:

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

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) 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. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

For emergency responders:

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

6.2 Environmental precautions:

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

6.3 Methods and material for containment and cleaning up:

It is recommended:

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

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

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

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

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

C.- Technical recommendations on general occupational hygiene

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

D.- Technical recommendations to prevent environmental risks

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SECTION 7: HANDLING AND STORAGE (continued)

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

B.- General conditions for storage

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

7.3 Specific end use(s):

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

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

There are no applicable occupational exposure limits for the substances contained in the product

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
benzyl alcohol	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 100-51-6	Dermal	40 mg/kg	Not relevant	8 mg/kg	Not relevant
EC: 202-859-9	Inhalation	110 mg/m³	Not relevant	22 mg/m³	Not relevant
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 68082-29-1	Dermal	Not relevant	Not relevant	1.1 mg/kg	Not relevant
EC: 500-191-5	Inhalation	Not relevant	Not relevant	3.9 mg/m³	Not relevant
2,4,6-tris(dimethylaminomethyl)phenol	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 90-72-2	Dermal	Not relevant	Not relevant	0.15 mg/kg	Not relevant
EC: 202-013-9	Inhalation	Not relevant	Not relevant	0.53 mg/m³	Not relevant
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 186321-96-0	Dermal	Not relevant	Not relevant	1 mg/kg	Not relevant
EC: 606-078-8	Inhalation	Not relevant	Not relevant	7.05 mg/m³	Not relevant
m-phenylenebis(methylamine)	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 1477-55-0	Dermal	Not relevant	Not relevant	0.33 mg/kg	Not relevant
EC: 216-032-5	Inhalation	Not relevant	Not relevant	1.2 mg/m³	0.2 mg/m³
3-aminomethyl-3,5,5-trimethylcyclohexylamine	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 2855-13-2	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 220-666-8	Inhalation	Not relevant	Not relevant	Not relevant	0.073 mg/m³
N´-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 10563-29-8	Dermal	Not relevant	Not relevant	0.67 mg/kg	Not relevant
EC: 234-148-4	Inhalation	7.5 mg/m³	7.5 mg/m³	3.7 mg/m³	3.7 mg/m³
Salicylic acid	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 69-72-7	Dermal	Not relevant	Not relevant	2.3 mg/kg	Not relevant
EC: 200-712-3	Inhalation	Not relevant	Not relevant	5 mg/m³	5 mg/m³

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
benzyl alcohol	Oral	20 mg/kg	Not relevant	4 mg/kg	Not relevant
CAS: 100-51-6	Dermal	20 mg/kg	Not relevant	4 mg/kg	Not relevant
EC: 202-859-9	Inhalation	27 mg/m³	Not relevant	5.4 mg/m³	Not relevant

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Oral	Not relevant	Not relevant	0.56 mg/kg	Not relevant
CAS: 68082-29-1	Dermal	Not relevant	Not relevant	0.56 mg/kg	Not relevant
EC: 500-191-5	Inhalation	Not relevant	Not relevant	0.97 mg/m³	Not relevant
2,4,6-tris(dimethylaminomethyl)phenol	Oral	Not relevant	Not relevant	0.075 mg/kg	Not relevant
CAS: 90-72-2	Dermal	Not relevant	Not relevant	0.075 mg/kg	Not relevant
EC: 202-013-9	Inhalation	Not relevant	Not relevant	0.13 mg/m³	Not relevant
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	Oral	Not relevant	Not relevant	0.5 mg/kg	Not relevant
CAS: 186321-96-0	Dermal	Not relevant	Not relevant	0.5 mg/kg	Not relevant
EC: 606-078-8	Inhalation	Not relevant	Not relevant	1.74 mg/m³	Not relevant
3-aminomethyl-3,5,5-trimethylcyclohexylamine	Oral	Not relevant	Not relevant	0.526 mg/kg	Not relevant
CAS: 2855-13-2	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 220-666-8	Inhalation	Not relevant	Not relevant	Not relevant	Not relevant
N´-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine	Oral	Not relevant	Not relevant	0.2 mg/kg	Not relevant
CAS: 10563-29-8	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 234-148-4	Inhalation	Not relevant	Not relevant	0.65 mg/m³	0.65 mg/m³
Salicylic acid	Oral	4 mg/kg	Not relevant	1 mg/kg	Not relevant
CAS: 69-72-7	Dermal	Not relevant	Not relevant	1 mg/kg	Not relevant
EC: 200-712-3	Inhalation	Not relevant	Not relevant	4 mg/m³	Not relevant

PNEC:

Identification				
benzyl alcohol	STP	39 mg/L	Fresh water	1 mg/L
CAS: 100-51-6	Soil	0.456 mg/kg	Marine water	0.1 mg/L
EC: 202-859-9	Intermittent	2.3 mg/L	Sediment (Fresh water)	5.27 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.527 mg/kg
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	STP	3.84 mg/L	Fresh water	0.004 mg/L
CAS: 68082-29-1	Soil	86.78 mg/kg	Marine water	0 mg/L
EC: 500-191-5	Intermittent	0.043 mg/L	Sediment (Fresh water)	434.02 mg/kg
	Oral	Not relevant	Sediment (Marine water)	43.4 mg/kg
2,4,6-tris(dimethylaminomethyl)phenol	STP	0.2 mg/L	Fresh water	0.046 mg/L
CAS: 90-72-2	Soil	0.025 mg/kg	Marine water	0.005 mg/L
EC: 202-013-9	Intermittent	0.46 mg/L	Sediment (Fresh water)	0.262 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.026 mg/kg
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	STP	1.58 mg/L	Fresh water	0.000186 mg/L
CAS: 186321-96-0	Soil	11.1 mg/kg	Marine water	0.000019 mg/L
EC: 606-078-8	Intermittent	0.00186 mg/L	Sediment (Fresh water)	0.005 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.0005 mg/kg
m-phenylenebis(methylamine)	STP	10 mg/L	Fresh water	0.094 mg/L
CAS: 1477-55-0	Soil	2.44 mg/kg	Marine water	0.009 mg/L
EC: 216-032-5	Intermittent	0.152 mg/L	Sediment (Fresh water)	12.4 mg/kg
	Oral	Not relevant	Sediment (Marine water)	1.24 mg/kg
3-aminomethyl-3,5,5-trimethylcyclohexylamine	STP	3.18 mg/L	Fresh water	0.06 mg/L
CAS: 2855-13-2	Soil	1.121 mg/kg	Marine water	0.006 mg/L
EC: 220-666-8	Intermittent	0.23 mg/L	Sediment (Fresh water)	5.784 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.578 mg/kg
N´-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine	STP	18.1 mg/L	Fresh water	0.0092 mg/L
CAS: 10563-29-8	Soil	0.00132 mg/kg	Marine water	0.00092 mg/L
EC: 234-148-4	Intermittent	0.092 mg/L	Sediment (Fresh water)	0.034 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.00336 mg/kg

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
Salicylic acid	STP	162 mg/L	Fresh water	0.2 mg/L
CAS: 69-72-7	Soil	0.166 mg/kg	Marine water	0.02 mg/L
EC: 200-712-3	Intermittent	1 mg/L	Sediment (Fresh water)	1.42 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.142 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)	CE 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

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Face shield	CE CAT II	EN 166:2002 EN 167:2002 EN 168:2002 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	Disposable clothing for protection against chemical risks	CE CAT III	EN 13034:2005+A1:2009 EN 168:2002 EN ISO 13982-1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN 464:1994	For professional use only. Clean periodically according to the manufacturer´s instructions.
 Mandatory foot protection	Safety footwear for protection against chemical risk	CE CAT III	EN ISO 20345:2011 EN 13832-1:2019	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:

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

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):	0 % weight
V.O.C. density at 20 ºC:	0 kg/m³ (0 g/L)
Average carbon number:	Not relevant
Average molecular weight:	Not relevant

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:	Not available
Colour:	Not available
Odour:	Not available
Odour threshold:	Not relevant *

Volatility:

Boiling point at atmospheric pressure:	220 ºC
Vapour pressure at 20 ºC:	5 Pa
Vapour pressure at 50 ºC:	64.75 Pa (0.06 kPa)
Evaporation rate at 20 ºC:	Not relevant *

Product description:

Density at 20 ºC:	993.9 kg/m³
Relative density at 20 ºC:	0.994
Dynamic viscosity at 20 ºC:	380.16 cP
Kinematic viscosity at 20 ºC:	382.51 mm²/s
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:	Non Flammable (>60 ºC)
Flammability (solid, gas):	Not relevant *
Autoignition temperature:	300 ºC
Lower flammability limit:	Not relevant *
Upper flammability limit:	Not relevant *

Particle characteristics:

Median equivalent diameter:	Non-applicable

*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)

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	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

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

10.6 Hazardous decomposition products:

Contains substances which require external energy for spontaneous decomposition. Form explosive peroxides when distilled, evaporated or otherwise concentrated.

SECTION 11: TOXICOLOGICAL INFORMATION

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

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

Dangerous health implications:

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

A- Ingestion (acute effect):

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

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Corrosive to the respiratory tract

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

- CONTINUED ON NEXT PAGE -

SECTION 11: TOXICOLOGICAL INFORMATION (continued)

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

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

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
  IARC: Not relevant
- 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. 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, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

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

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

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

- Specific target organ toxicity (STOT)-repeated exposure: 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.
- 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
benzyl alcohol	LD50 oral	500 mg/kg (ATEi)	Rat
CAS: 100-51-6	LD50 dermal	2500 mg/kg	
EC: 202-859-9	LC50 inhalation	11 mg/L (ATEi)	
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	LD50 oral	>2000 mg/kg	
CAS: 68082-29-1	LD50 dermal	>2000 mg/kg	
EC: 500-191-5	LC50 inhalation	>20 mg/L	
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	LD50 oral	>2000 mg/kg	
CAS: 186321-96-0	LD50 dermal	>2000 mg/kg	
EC: 606-078-8	LC50 inhalation	>20 mg/L	
m-phenylenebis(methylamine)	LD50 oral	1090 mg/kg (ATEi)	Rat
CAS: 1477-55-0	LD50 dermal	>2000 mg/kg	
EC: 216-032-5	LC50 inhalation	11 mg/L (ATEi)	
3-aminomethyl-3,5,5-trimethylcyclohexylamine	LD50 oral	1030 mg/kg (ATEi)	Rat
CAS: 2855-13-2	LD50 dermal	>2000 mg/kg	
EC: 220-666-8	LC50 inhalation	>20 mg/L	
2,4,6-tris(dimethylaminomethyl)phenol	LD50 oral	1200 mg/kg (ATEi)	Rat
CAS: 90-72-2	LD50 dermal	>2000 mg/kg	
EC: 202-013-9	LC50 inhalation	>20 mg/L	
N´-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine	LD50 oral	1668 mg/kg (ATEi)	Rat
CAS: 10563-29-8	LD50 dermal	>2000 mg/kg	
EC: 234-148-4	LC50 inhalation	>20 mg/L	

- CONTINUED ON NEXT PAGE -

SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Identification	Acute toxicity		Genus
Salicylic acid	LD50 oral	891 mg/kg	Rat
CAS: 69-72-7	LD50 dermal	>2000 mg/kg	
EC: 200-712-3	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

SECTION 12: ECOLOGICAL INFORMATION

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

Toxic to aquatic life with long lasting effects.

12.1 Toxicity:

Acute toxicity:

Identification	Concentration		Species	Genus
benzyl alcohol	LC50	646 mg/L (48 h)	Leuciscus idus	Fish
CAS: 100-51-6	EC50	400 mg/L (24 h)	Daphnia magna	Crustacean
EC: 202-859-9	EC50	79 mg/L (3 h)	Scenedesmus subspicatus	Algae
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	LC50	7 mg/L (96 h)	Danio rerio	Fish
CAS: 68082-29-1	EC50	7 mg/L (48 h)	Daphnia magna	Crustacean
EC: 500-191-5	EC50	4 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
2,4,6-tris(dimethylaminomethyl)phenol	LC50	345 mg/L (96 h)	QSAR	Fish
CAS: 90-72-2	EC50	Not relevant		
EC: 202-013-9	EC50	Not relevant		
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	LC50	1.8 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 186321-96-0	EC50	0.7 mg/L (48 h)	Daphnia magna	Crustacean
EC: 606-078-8	EC50	0.77 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
m-phenylenebis(methylamine)	LC50	88 mg/L (96 h)	Oryzias latipes	Fish
CAS: 1477-55-0	EC50	15 mg/L (48 h)	Daphnia magna	Crustacean
EC: 216-032-5	EC50	20 mg/L (72 h)	Selenastrum capricornutum	Algae
3-aminomethyl-3,5,5-trimethylcyclohexylamine	LC50	110 mg/L (96 h)	Leuciscus idus	Fish
CAS: 2855-13-2	EC50	388 mg/L (48 h)	N/A	Crustacean
EC: 220-666-8	EC50	Not relevant		
N´-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine	LC50	Not relevant		
CAS: 10563-29-8	EC50	9.2 mg/L (48 h)	Daphnia magna	Crustacean
EC: 234-148-4	EC50	Not relevant		

Chronic toxicity:

Identification	Concentration		Species	Genus
benzyl alcohol	NOEC	48.897 mg/L	N/A	Fish
CAS: 100-51-6 EC: 202-859-9	NOEC	51 mg/L	Daphnia magna	Crustacean
m-phenylenebis(methylamine)	NOEC	Not relevant		
CAS: 1477-55-0 EC: 216-032-5	NOEC	4.7 mg/L	Daphnia magna	Crustacean
3-aminomethyl-3,5,5-trimethylcyclohexylamine	NOEC	Not relevant		
CAS: 2855-13-2 EC: 220-666-8	NOEC	3 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Substance-specific information:

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Degradability		Biodegradability	
benzyl alcohol	BOD5	Not relevant	Concentration	100 mg/L
CAS: 100-51-6	COD	Not relevant	Period	14 days
EC: 202-859-9	BOD5/COD	Not relevant	% Biodegradable	94 %
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	BOD5	Not relevant	Concentration	2 mg/L
CAS: 186321-96-0	COD	Not relevant	Period	28 days
EC: 606-078-8	BOD5/COD	Not relevant	% Biodegradable	9 %
m-phenylenebis(methylamine)	BOD5	Not relevant	Concentration	14 mg/L
CAS: 1477-55-0	COD	Not relevant	Period	28 days
EC: 216-032-5	BOD5/COD	Not relevant	% Biodegradable	49 %
3-aminomethyl-3,5,5-trimethylcyclohexylamine	BOD5	Not relevant	Concentration	7 mg/L
CAS: 2855-13-2	COD	Not relevant	Period	28 days
EC: 220-666-8	BOD5/COD	Not relevant	% Biodegradable	8 %

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccumulation potential	
benzyl alcohol	BCF	0.3
CAS: 100-51-6	Pow Log	1.1
EC: 202-859-9	Potential	Low
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	BCF	77
CAS: 68082-29-1	Pow Log	
EC: 500-191-5	Potential	Moderate
2,4,6-tris(dimethylaminomethyl)phenol	BCF	3
CAS: 90-72-2	Pow Log	0.77
EC: 202-013-9	Potential	Low
m-phenylenebis(methylamine)	BCF	3
CAS: 1477-55-0	Pow Log	0.18
EC: 216-032-5	Potential	Low

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
benzyl alcohol	Koc	Not relevant	Henry	Not relevant
CAS: 100-51-6	Conclusion	Not relevant	Dry soil	Not relevant
EC: 202-859-9	Surface tension	3.679E-2 N/m (25 ºC)	Moist soil	Not relevant
2,4,6-tris(dimethylaminomethyl)phenol	Koc	15130	Henry	9.312E-12 Pa·m³/mol
CAS: 90-72-2	Conclusion	Immobile	Dry soil	No
EC: 202-013-9	Surface tension	Not relevant	Moist soil	No
m-phenylenebis(methylamine)	Koc	1300	Henry	Not relevant
CAS: 1477-55-0	Conclusion	Low	Dry soil	Not relevant
EC: 216-032-5	Surface tension	Not relevant	Moist soil	Not relevant
3-aminomethyl-3,5,5-trimethylcyclohexylamine	Koc	928	Henry	4.46E-4 Pa·m³/mol
CAS: 2855-13-2	Conclusion	Low	Dry soil	No
EC: 220-666-8	Surface tension	Not relevant	Moist soil	No
Salicylic acid	Koc	Not relevant	Henry	Not relevant
CAS: 69-72-7	Conclusion	Not relevant	Dry soil	Not relevant
EC: 200-712-3	Surface tension	2.444E-2 N/m (207.25 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:

- CONTINUED ON NEXT PAGE -

SECTION 12: ECOLOGICAL INFORMATION (continued)

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
16 03 05*	organic wastes containing hazardous substances	Hazardous

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

HP14 Ecotoxic, HP6 Acute Toxicity, HP13 Sensitising, HP8 Corrosive

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC, The Waste Regulations 2011, 2011 No. 988). As under 15 01 (2014/955/EU) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023:

14.1	**UN number or ID number:**	UN2735
14.2	**UN proper shipping name:**	AMINES, LIQUID, CORROSIVE, N.O.S. (2,4,6-tris (dimethylaminomethyl)phenol; Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine)
14.3	**Transport hazard class(es):**	8
	Labels:	8
14.4	**Packing group:**	II
14.5	**Environmental hazards:**	Yes
14.6	**Special precautions for user**	
	Special regulations:	274
	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:

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SECTION 14: TRANSPORT INFORMATION (continued)

14.1 UN number or ID number: UN2735

14.2 UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (2,4,6-tris (dimethylaminomethyl)phenol; Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine)

14.3 Transport hazard class(es): 8

Labels: 8

14.4 Packing group: II

14.5 Marine pollutant: Yes

14.6 Special precautions for user

Special regulations: 274

EmS Codes: F-A, S-B

Physico-Chemical properties: see section 9

Limited quantities: 1 L

Segregation group: SGG18

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: UN2735

14.2 UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (2,4,6-tris (dimethylaminomethyl)phenol; Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine)

14.3 Transport hazard class(es): 8

Labels: 8

14.4 Packing group: II

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:

- Article 95, REGULATION (EU) No 528/2012: *benzyl alcohol (100-51-6) - PT: (6)* ; *Salicylic acid (69-72-7) - PT: (2,3,4)*
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

Seveso III:

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

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

Shall not be used in:
—ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
—tricks and jokes,
—games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Specific provisions in terms of protecting people or the environment:

- CONTINUED ON NEXT PAGE -

SECTION 15: REGULATORY INFORMATION (continued)

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.:

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

Texts of the legislative phrases mentioned in section 2:

H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H411: Toxic to aquatic life with long lasting effects.
H317: May cause an allergic skin reaction.

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:

Acute Tox. 4: H302 - Harmful if swallowed.
Acute Tox. 4: H302+H332 - Harmful if swallowed or 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 2: H411 - 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.
Repr. 2: H361d - Suspected to damage the foetus.
Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1: H317 - May cause an allergic skin reaction.
Skin Sens. 1A: H317 - May cause an allergic skin reaction.
Skin Sens. 1B: H317 - May cause an allergic skin reaction.

Advice related to training:

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

Principal bibliographical sources:

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

Abbreviations and acronyms:

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SECTION 16: OTHER INFORMATION (continued)

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

- END OF SAFETY DATA SHEET -