BELZONA® 1161 - SUPER UW-METAL - SOLIDIFIER SN2858

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

1.1 Product identifier: BELZONA® 1161 - SUPER UW-METAL - SOLIDIFIER SN2858

Other means of identification:

Not relevant

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

Relevant uses (Industrial user): Filler for repairing surfaces

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:

Belzona Limited
Claro Road
HG1 4DS Harrogate - North Yorkshire - England
Phone: +441423567641
sds@belzona.com
https://www.belzona.com

Belzona United Kingdom
Unit 3 Vista, Stephen Wade Way, Off Manor Lane
Hawarden, Wales, CH5 3FN, United Kingdom
Telephone: +44 1423 567641
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1.4 Emergency telephone number: VelocityEHS: +1 813-248-0585 (International) (24/7/365)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

This product contains less than 1% respirable crystalline silica, so it does not require classification

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

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

Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412
Eye Dam. 1: Serious eye damage, Category 1, H318
Repr. 2: Reproductive toxicity, Category 2, H361
Skin Corr. 1A: Skin corrosion, Category 1A, H314
Skin Sens. 1A: Sensitisation, skin, Category 1A, H317
STOT RE 2: Specific target organ toxicity, repeated exposure, Category 2, H373

2.2 Label elements:

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

Danger



Hazard statements:

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
Repr. 2: H361 - Suspected of damaging fertility or the unborn child.
Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.
Skin Sens. 1A: H317 - May cause an allergic skin reaction.
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

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SECTION 2: HAZARDS IDENTIFICATION (continued)

P202: Do not handle until all safety precautions have been read and understood.
P260: Do not breathe vapours.
P273: Avoid release to the environment.
P280: Wear protective gloves, protective clothing and eye protection.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
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 attention.

Supplementary information:

Contains 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine, 2,2´-iminodiethylamine.

Substances that contribute to the classification

Phenol, styrenated; 2-piperazin-1-ylethylamine; 1,3-Cyclohexanedimethanamine; 3-aminomethyl-3,5,5-trimethylcyclohexylamine

2.3 Other hazards:

Product does not meet PBT/vPvB 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 The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 61788-44-1 EC: 262-975-0 REACH: 01-2119979575-18-XXXX	**Phenol, styrenated** Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1A: H317 - Warning	**10 - <30 %**
CAS: 100-51-6 EC: 202-859-9 REACH: 01-2119492630-38-XXXX	**benzyl alcohol** Acute Tox. 4: H302+H332; Eye Irrit. 2: H319 - Warning	**5 - <10 %**
CAS: 140-31-8 EC: 205-411-0 REACH: 01-2119471486-30-XXXX	**2-piperazin-1-ylethylamine** Acute Tox. 4: H302+H312; Aquatic Chronic 3: H412; Repr. 2: H361; Skin Corr. 1B: H314; Skin Sens. 1: H317; STOT RE 1: H372 - Danger	**5 - <10 %**
CAS: 2579-20-6 EC: 219-941-5 REACH: 01-2119543741-41-XXXX	**1,3-Cyclohexanedimethanamine** Acute Tox. 4: H302+H312; Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Corr. 1A: H314 - Danger	**5 - <10 %**
CAS: 2855-13-2 EC: 220-666-8 REACH: 01-2119514687-32-XXXX	**3-aminomethyl-3,5,5-trimethylcyclohexylamine** Acute Tox. 4: H302; Eye Dam. 1: H318; Skin Corr. 1B: H314; Skin Sens. 1A: H317 - Danger	**5 - <10 %**
CAS: 38294-64-3 EC: 500-101-4 REACH: 01-2119965165-33-XXXX	**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine** Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Corr. 1B: H314; Skin Sens. 1: H317 - Danger	**5 - <10 %**
CAS: 69-72-7 EC: 200-712-3 REACH: 01-2119486984-17-XXXX	**Salicylic acid** Acute Tox. 4: H302; Eye Dam. 1: H318; Repr. 2: H361d - Danger	**<3 %**
CAS: 38640-62-9 EC: 254-052-6 REACH: 01-2119565150-48-XXXX	**Bis(isopropyl)naphthalene** Aquatic Chronic 1: H410; Asp. Tox. 1: H304 - Danger	**<1 %**

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Identification	Chemical name/Classification	Concentration
CAS: 111-40-0 EC: 203-865-4 REACH: 01-2119473793-27-XXXX	**2,2´-iminodiethylamine** Acute Tox. 2: H330; Acute Tox. 4: H302+H312; Eye Dam. 1: H318; Skin Corr. 1B: H314; Skin Sens. 1B: H317; STOT SE 3: H335 - Danger	**<1 %**

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

Other information:

Identification	Specific concentration limit
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS: 2855-13-2	% (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 CAS: 100-51-6 EC: 202-859-9	LD50 oral	1620 mg/kg	
	LD50 dermal	Not relevant	
	LC50 inhalation dust	3.3 mg/L *	
2-piperazin-1-ylethylamine CAS: 140-31-8 EC: 205-411-0	LD50 oral	2097 mg/kg	Rabbit
	LD50 dermal	866 mg/kg	Rabbit
	LC50 inhalation dust	Not relevant	
2,2´-iminodiethylamine CAS: 111-40-0 EC: 203-865-4	LD50 oral	1553 mg/kg	Rat
	LD50 dermal	1045 mg/kg	Rabbit
	LC50 inhalation dust	0.07 mg/L *	
1,3-Cyclohexanedimethanamine CAS: 2579-20-6 EC: 219-941-5	LD50 oral	700 mg/kg	Rat
	LD50 dermal	1700 mg/kg	Rabbit
	LC50 inhalation dust	Not relevant	
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS: 2855-13-2 EC: 220-666-8	LD50 oral	1030 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation dust	Not relevant	
Salicylic acid CAS: 69-72-7 EC: 200-712-3	LD50 oral	891 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation dust	Not relevant	

* Equivalent ATE value of the substance applicable to the exposure route of the product. For the ATE value associated with the exposure route of the substance, see section 11.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

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

By inhalation:

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

By skin contact:

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

By eye contact:

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

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SECTION 4: FIRST AID MEASURES (continued)

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:

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

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

Additional provisions:

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

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:

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

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SECTION 7: HANDLING AND STORAGE (continued)

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

Due to its non-inflammable nature, the product does not present a fire risk under normal conditions of storage, handling and use.

C.- Technical recommendations on general occupational hygiene

PREGNANT WOMEN SHOULD NOT BE EXPOSED TO THIS PRODUCT. Transfer in designated areas that comply with the necessary safety conditions (emergency showers and eyewash stations in close proximity), using personal protection equipment, especially on the hands and face (See section 8). Limit manual transfers to small amounts only. Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Preferably use aspiration for cleaning. Given the danger of the product by inhalation, any cleaning method that involves exposure to the product in this way (sweeping, etc.) is not recommended

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 assessed in the workplace:

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

Identification	Occupational exposure limits		
2,2´-iminodiethylamine	WEL (8h)	1 ppm	4.3 mg/m³
CAS: 111-40-0	WEL (15 min)		

Nuisance dust: Inhalable dust 10 mg/m3 // Respirable dust 4 mg/m3

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Phenol, styrenated	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 61788-44-1	Dermal	Not relevant	Not relevant	21 mg/kg	Not relevant
EC: 262-975-0	Inhalation	Not relevant	Not relevant	74 mg/m³	Not relevant
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
2-piperazin-1-ylethylamine	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 140-31-8	Dermal	Not relevant	Not relevant	3.33 mg/kg	Not relevant
EC: 205-411-0	Inhalation	10.6 mg/m³	80 mg/m³	10.6 mg/m³	0.015 mg/m³
1,3-Cyclohexanedimethanamine	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 2579-20-6	Dermal	25.2 mg/kg	Not relevant	0.1 mg/kg	Not relevant
EC: 219-941-5	Inhalation	Not relevant	Not relevant	Not relevant	0.00947 mg/m³

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
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
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 38294-64-3	Dermal	Not relevant	Not relevant	0.14 mg/kg	Not relevant
EC: 500-101-4	Inhalation	Not relevant	Not relevant	0.493 mg/m³	Not relevant
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
Bis(isopropyl)naphthalene	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 38640-62-9	Dermal	Not relevant	Not relevant	2.38 mg/kg	Not relevant
EC: 254-052-6	Inhalation	Not relevant	Not relevant	8.4 mg/m³	Not relevant
2,2´-iminodiethylamine	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 111-40-0	Dermal	Not relevant	Not relevant	11.4 mg/kg	Not relevant
EC: 203-865-4	Inhalation	92.1 mg/m³	2.6 mg/m³	15.4 mg/m³	0.87 mg/m³

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Phenol, styrenated	Oral	Not relevant	Not relevant	7.5 mg/kg	Not relevant
CAS: 61788-44-1	Dermal	Not relevant	Not relevant	7.5 mg/kg	Not relevant
EC: 262-975-0	Inhalation	Not relevant	Not relevant	13.1 mg/m³	Not relevant
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
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
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	Oral	Not relevant	Not relevant	0.05 mg/kg	Not relevant
CAS: 38294-64-3	Dermal	Not relevant	Not relevant	0.05 mg/kg	Not relevant
EC: 500-101-4	Inhalation	Not relevant	Not relevant	0.074 mg/m³	Not relevant
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
Bis(isopropyl)naphthalene	Oral	Not relevant	Not relevant	0.85 mg/kg	Not relevant
CAS: 38640-62-9	Dermal	Not relevant	Not relevant	0.85 mg/kg	Not relevant
EC: 254-052-6	Inhalation	Not relevant	Not relevant	1.48 mg/m³	Not relevant
2,2´-iminodiethylamine	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 111-40-0	Dermal	4.88 mg/kg	Not relevant	4.88 mg/kg	Not relevant
EC: 203-865-4	Inhalation	27.5 mg/m³	Not relevant	4.6 mg/m³	Not relevant

PNEC:

Identification				
Phenol, styrenated	STP	36.2 mg/L	Fresh water	0.004 mg/L
CAS: 61788-44-1	Soil	0.0473 mg/kg	Marine water	0.0004 mg/L
EC: 262-975-0	Intermittent	0.046 mg/L	Sediment (Fresh water)	0.248 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.0248 mg/kg

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

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
2-piperazin-1-ylethylamine	STP	250 mg/L	Fresh water	0.058 mg/L
CAS: 140-31-8	Soil	1 mg/kg	Marine water	0.006 mg/L
EC: 205-411-0	Intermittent	0.58 mg/L	Sediment (Fresh water)	215 mg/kg
	Oral	Not relevant	Sediment (Marine water)	21.5 mg/kg
1,3-Cyclohexanedimethanamine	STP	10 mg/L	Fresh water	0.033 mg/L
CAS: 2579-20-6	Soil	0.024 mg/kg	Marine water	0.003 mg/L
EC: 219-941-5	Intermittent	0.331 mg/L	Sediment (Fresh water)	0.218 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.022 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
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	STP	10 mg/L	Fresh water	0.011 mg/L
CAS: 38294-64-3	Soil	864 mg/kg	Marine water	0.001 mg/L
EC: 500-101-4	Intermittent	0.111 mg/L	Sediment (Fresh water)	4320 mg/kg
	Oral	0.001 g/kg	Sediment (Marine water)	432 mg/kg
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
Bis(isopropyl)naphthalene	STP	0.15 mg/L	Fresh water	0 mg/L
CAS: 38640-62-9	Soil	0.171 mg/kg	Marine water	0 mg/L
EC: 254-052-6	Intermittent	Not relevant	Sediment (Fresh water)	0.853 mg/kg
	Oral	0.025 g/kg	Sediment (Marine water)	0.085 mg/kg
2,2´-iminodiethylamine	STP	6 mg/L	Fresh water	0.56 mg/L
CAS: 111-40-0	Soil	7.97 mg/kg	Marine water	0.056 mg/L
EC: 203-865-4	Intermittent	0.32 mg/L	Sediment (Fresh water)	1072 mg/kg
	Oral	Not relevant	Sediment (Marine water)	107.2 mg/kg

8.2 Exposure controls:

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

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

B.- Respiratory protection

Pictogram	PPE	Remarks
	Filter mask for gases and vapours (Filter type: ABEK)	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.
	Continuous flow compressed air line breathing device (Filter type: ABEK)	Replace when an increase in resistence to breathing is observed and/or a smell or taste of the contaminant is detected.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

C.- Specific protection for the hands

Pictogram	PPE	Remarks
	Chemical protective gloves (Material: Nitrile, Breakthrough time: 10 - 30 min, Thickness: 0.12 mm)	Replace the gloves at any sign of deterioration.

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

D.- Eye and face protection

Pictogram	PPE	Remarks
	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer´s instructions. Use if there is a risk of splashing.

E.- Body protection

Pictogram	PPE	Remarks
	Disposable clothing for protection against chemical risks	For professional use only. Clean periodically according to the manufacturer´s instructions.
	Work clothing	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
	Safety footwear for protection against chemical risk	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.

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:	Solid
Appearance:	Paste
Colour:	Grey
Odour:	Aminic

*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)

Odour threshold:	Not relevant *
Volatility:	
Boiling point at atmospheric pressure:	>200 ºC
Vapour pressure at 20 ºC:	Not relevant *
Vapour pressure at 50 ºC:	Not relevant *
Evaporation rate at 20 ºC:	Not relevant *
Product description:	
Density at 20 ºC:	Not relevant *
Relative density at 20 ºC:	1.35 - 1.45
Dynamic viscosity at 20 ºC:	Not relevant *
Kinematic viscosity at 20 ºC:	Not relevant *
Kinematic viscosity at 40 ºC:	>20.5 mm²/s
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:	Partially miscible
Decomposition temperature:	Not relevant *
Melting point/freezing point:	Not relevant *
Flammability:	
Flash Point:	>96 ºC
Flammability (solid, gas):	Not relevant *
Autoignition temperature:	Not relevant *
Lower flammability limit:	Not relevant *
Upper flammability limit:	Not relevant *
Explosive (Solid):	
Lower explosive limit:	Not relevant *
Upper explosive limit:	Not relevant *
Particle characteristics:	
Median equivalent diameter:	Not relevant *

9.2 Other information:

Information with regard to physical hazard classes:	
Explosive properties:	Not relevant *
Oxidising properties:	Not relevant *
Corrosive to metals:	Not relevant *
Heat of combustion:	Not relevant *
Aerosols-total percentage (by mass) of flammable components:	Not relevant *
Other safety characteristics:	
Surface tension at 20 ºC:	Not relevant *
Refraction index:	Not relevant *

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

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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 toxicological effects:

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: 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: Talc (3); Titanium dioxide (2B)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Suspected of damaging fertility or the unborn child

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:

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

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

H- Aspiration hazard:

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

Other information:

Not available

Product-specific toxicological information:

Acute toxicity		Genus
LD50 oral	2398.44 mg/kg	
LD50 dermal	3009.17 mg/kg	
LC50 inhalation dust	12.15 mg/L	

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
benzyl alcohol CAS: 100-51-6 EC: 202-859-9	LD50 oral	1620 mg/kg	
	LD50 dermal	2500 mg/kg	
	LC50 inhalation mist	3.3 mg/L	Rat
2-piperazin-1-ylethylamine CAS: 140-31-8 EC: 205-411-0	LD50 oral	2097 mg/kg	Rabbit
	LD50 dermal	866 mg/kg	Rabbit
	LC50 inhalation		
1,3-Cyclohexanedimethanamine CAS: 2579-20-6 EC: 219-941-5	LD50 oral	700 mg/kg	Rat
	LD50 dermal	1700 mg/kg	Rabbit
	LC50 inhalation		
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS: 2855-13-2 EC: 220-666-8	LD50 oral	1030 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	Rat
	LC50 inhalation		
Salicylic acid CAS: 69-72-7 EC: 200-712-3	LD50 oral	891 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation		
2,2´-iminodiethylamine CAS: 111-40-0 EC: 203-865-4	LD50 oral	1553 mg/kg	Rat
	LD50 dermal	1045 mg/kg	Rabbit
	LC50 inhalation mist	0.07 mg/L	Rat

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
Phenol, styrenated CAS: 61788-44-1	LC50	5.6 mg/L (96 h)	N/A	Fish
	EC50	16 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	9 mg/L (72 h)	N/A	Algae

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SECTION 12: ECOLOGICAL INFORMATION (continued)

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
	EC50	79 mg/L (3 h)	Scenedesmus subspicatus	Algae
2-piperazin-1-ylethylamine	LC50	2190 mg/L (96 h)	Pimephales promelas	Fish
CAS: 140-31-8	EC50	58 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	>1000 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
1,3-Cyclohexanedimethanamine	LC50	130 mg/L (96 h)	Leuciscus idus	Fish
CAS: 2579-20-6	EC50	33 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	30 mg/L (72 h)	Pseudokirchneriella subcapitata	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
	EC50	Not available		
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	LC50	>10 - 100 mg/L (96 h)		Fish
CAS: 38294-64-3	EC50	>10 - 100 mg/L (48 h)		Crustacean
	EC50	>10 - 100 mg/L (72 h)		Algae
Bis(isopropyl)naphthalene	LC50	>0.1 - 1 mg/L (96 h)		Fish
CAS: 38640-62-9	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
	EC50	>0.1 - 1 mg/L (72 h)		Algae
2,2´-iminodiethylamine	LC50	430 mg/L (96 h)	Poecilia reticulata	Fish
CAS: 111-40-0	EC50	16 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	187 mg/L (72 h)	Selenastrum capricornutum	Algae

Chronic toxicity:

Identification	Concentration		Species	Genus
benzyl alcohol	NOEC	48.897 mg/L	N/A	Fish
CAS: 100-51-6	NOEC	51 mg/L	Daphnia magna	Crustacean
3-aminomethyl-3,5,5-trimethylcyclohexylamine	NOEC	Not available		
CAS: 2855-13-2	NOEC	3 mg/L	Daphnia magna	Crustacean
2,2´-iminodiethylamine	NOEC	10 mg/L	Gasterosteus aculeatus	Fish
CAS: 111-40-0	NOEC	5.6 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability		Biodegradability	
Phenol, styrenated	BOD5	Not available	Concentration	Not available
CAS: 61788-44-1	COD	Not available	Period	28 days
EC: 262-975-0	BOD5/COD	Not available	% Biodegradable	7 %
benzyl alcohol	BOD5	Not available	Concentration	100 mg/L
CAS: 100-51-6	COD	Not available	Period	14 days
EC: 202-859-9	BOD5/COD	Not available	% Biodegradable	94 %
2-piperazin-1-ylethylamine	BOD5	Not available	Concentration	30 mg/L
CAS: 140-31-8	COD	Not available	Period	28 days
EC: 205-411-0	BOD5/COD	Not available	% Biodegradable	0 %
1,3-Cyclohexanedimethanamine	BOD5	Not available	Concentration	100 mg/L
CAS: 2579-20-6	COD	Not available	Period	28 days
EC: 219-941-5	BOD5/COD	Not available	% Biodegradable	29 %
3-aminomethyl-3,5,5-trimethylcyclohexylamine	BOD5	Not available	Concentration	7 mg/L
CAS: 2855-13-2	COD	Not available	Period	28 days
EC: 220-666-8	BOD5/COD	Not available	% Biodegradable	8 %
2,2´-iminodiethylamine	BOD5	Not available	Concentration	10 mg/L
CAS: 111-40-0	COD	Not available	Period	21 days
EC: 203-865-4	BOD5/COD	Not available	% Biodegradable	87 %

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SECTION 12: ECOLOGICAL INFORMATION (continued)

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccumulation potential	
benzyl alcohol	BCF	0
CAS: 100-51-6	Pow Log	1.1
EC: 202-859-9	Potential	Low
2-piperazin-1-ylethylamine	BCF	3
CAS: 140-31-8	Pow Log	-1.48
EC: 205-411-0	Potential	Low
2,2´-iminodiethylamine	BCF	2
CAS: 111-40-0	Pow Log	-1.3
EC: 203-865-4	Potential	Low

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
benzyl alcohol	Koc	Not available	Henry	Not available
CAS: 100-51-6	Conclusion	Not available	Dry soil	Not available
	Surface tension	3.679E-2 N/m (25 ºC)	Moist soil	Not available
2-piperazin-1-ylethylamine	Koc	37000	Henry	0E+0 Pa·m³/mol
CAS: 140-31-8	Conclusion	Immobile	Dry soil	Not available
	Surface tension	Not available	Moist soil	Not available
1,3-Cyclohexanedimethanamine	Koc	30	Henry	Not available
CAS: 2579-20-6	Conclusion	Very High	Dry soil	Not available
	Surface tension	Not available	Moist soil	Not available
3-aminomethyl-3,5,5-trimethylcyclohexylamine	Koc	928	Henry	4.46E-4 Pa·m³/mol
CAS: 2855-13-2	Conclusion	Low	Dry soil	Not available
	Surface tension	Not available	Moist soil	Not available
Salicylic acid	Koc	Not available	Henry	Not available
CAS: 69-72-7	Conclusion	Not available	Dry soil	Not available
	Surface tension	2.444E-2 N/m (207.25 ºC)	Moist soil	Not available
2,2´-iminodiethylamine	Koc	Not available	Henry	Not available
CAS: 111-40-0	Conclusion	Not available	Dry soil	Not available
	Surface tension	4.164E-2 N/m (25 ºC)	Moist soil	Not available

12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances	Hazardous

Type of waste:

HP14 Ecotoxic, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP6 Acute Toxicity, HP10 Toxic for reproduction, HP13 Sensitising, HP8 Corrosive

Waste management (disposal and evaluation):

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

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SECTION 13: DISPOSAL CONSIDERATIONS (continued)

Regulations related to waste management:

In accordance with Annex II of UK REACH the provisions related to waste management are stated:

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

SECTION 14: TRANSPORT INFORMATION

Other information:

Labelling and packaging requirements may vary with pack and load size. Please refer to the current transport regulations.

Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023:



14.1	**UN number:**	UN3259
14.2	**UN proper shipping name:**	AMINES, SOLID, CORROSIVE, N.O.S. (2-piperazin-1-ylethylamine)
14.3	**Transport hazard class(es):**	8
	Labels:	8
14.4	**Packing group:**	III
14.5	**Environmental hazards:**	No
14.6	**Special precautions for user**	
	Tunnel restriction code:	E
	Physico-Chemical properties:	see section 9
	Limited quantities:	5 kg
14.7	**Transport in bulk according to Annex II of Marpol and the IBC Code:**	Not relevant

Transport of dangerous goods by sea:

With regard to IMDG 41-22:



14.1	**UN number:**	UN3259
14.2	**UN proper shipping name:**	AMINES, SOLID, CORROSIVE, N.O.S. (2-piperazin-1-ylethylamine)
14.3	**Transport hazard class(es):**	8
	Labels:	8
14.4	**Packing group:**	III
14.5	**Marine pollutant:**	No
14.6	**Special precautions for user**	
	Special regulations:	274, 223
	EmS Codes:	F-A, S-B
	Physico-Chemical properties:	see section 9
	Limited quantities:	5 kg
	Segregation group:	SGG18
14.7	**Transport in bulk according to Annex II of Marpol and the IBC Code:**	Not relevant

Transport of dangerous goods by air:

With regard to IATA/ICAO 2024:

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SECTION 14: TRANSPORT INFORMATION (continued)



14.1	**UN number:**	UN3259
14.2	**UN proper shipping name:**	AMINES, SOLID, CORROSIVE, N.O.S. (2-piperazin-1-ylethylamine)
14.3	**Transport hazard class(es):**	8
	Labels:	8
14.4	**Packing group:**	III
14.5	**Environmental hazards:**	No
14.6	**Special precautions for user**	
	Physico-Chemical properties:	see section 9
14.7	**Transport in bulk according to Annex II of Marpol and the IBC Code:**	Not relevant

SECTION 15: REGULATORY INFORMATION

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

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

The Control of Major Accident Hazards Regulations 2015:

Not relevant

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

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

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

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

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

Section: 1, 2, 3, 5, 8, 11, 15, 16

Texts of the legislative phrases mentioned in section 2:

H318: Causes serious eye damage.
H412: Harmful to aquatic life with long lasting effects.
H317: May cause an allergic skin reaction.
H361: Suspected of damaging fertility or the unborn child.
H373: May cause damage to organs through prolonged or repeated exposure.
H314: Causes severe skin burns and eye damage.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

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

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SECTION 16: OTHER INFORMATION (continued)

Acute Tox. 2: H330 - Fatal if inhaled.
Acute Tox. 4: H302 - Harmful if swallowed.
Acute Tox. 4: H302+H312 - Harmful if swallowed or in contact with skin.
Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled.
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.
Repr. 2: H361 - Suspected of damaging fertility or the unborn child.
Repr. 2: H361d - Suspected of damaging the unborn child.
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.
STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure.
STOT SE 3: H335 - May cause respiratory irritation.

Classification procedure:

Eye Dam. 1: Calculation method
Aquatic Chronic 3: Calculation method
Skin Sens. 1A: Calculation method
Repr. 2: Calculation method
STOT RE 2: Calculation method
Skin Corr. 1A: 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 UK, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -