

## BELZONA® 5821 - (SOLIDIFIER)

Date of compilation: 08/05/2024

Version: 1

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

**1.1 Product identifier:** BELZONA® 5821 - (SOLIDIFIER)

**Other means of identification:**

SN2871

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

Relevant uses: Protective coating. For industrial user only.

For Industrial Use 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:**

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**1.4 Emergency telephone number:** VelocityEHS (24/7/365):  
1-813-248-0585 [INTERNATIONAL]

### SECTION 2: HAZARDS IDENTIFICATION

**2.1 Classification of the substance or mixture:**

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

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

Acute Tox. 4: Acute toxicity, Category 4, H302+H332

Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412

Eye Dam. 1: Serious eye damage, Category 1, H318

Skin Corr. 1B: Skin corrosion, Category 1B, H314

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

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

**2.2 Label elements:**

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

Danger



**Hazard statements:**

Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled.

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

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

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

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

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): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310: Immediately call a POISON CENTER/doctor.  
 P501: Dispose of the contents and/or its container in line with regulations on dangerous waste or packaging and waste packaging respectively.

**Supplementary information:**

Contains 2,2'-iminodiethylamine, 4,4'-methylenebis(cyclohexylamine), Formaldehyde, polymer with benzenamine, hydrogenated.

**2.3 Other hazards:**

Product does not meet PBT/vPvB criteria

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

Non-applicable

**3.2 Mixture:**

**Chemical description:** Formulated polyamines

**Components:**

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

Identification	Chemical name/Classification	Concentration
CAS: 100-51-6	<b>benzyl alcohol</b> Acute Tox. 4: H302+H332; Eye Irrit. 2: H319 - Warning	! 10 - <30 %
CAS: 135108-88-2	<b>Formaldehyde, polymer with benzenamine, hydrogenated</b> Acute Tox. 4: H302; Aquatic Chronic 3: H412; Skin Corr. 1C: H314; Skin Sens. 1: H317; STOT RE 2: H373 - Danger	! □ □ 10 - <30 %
CAS: 111-40-0	<b>2,2'-iminodiethylamine</b> 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	! □ □ 5 - <10 %
CAS: 1761-71-3	<b>4,4'-methylenebis(cyclohexylamine)</b> Acute Tox. 4: H302; Aquatic Chronic 2: H411; Skin Corr. 1A: H314; Skin Sens. 1: H317; STOT RE 2: H373 - Danger	! □ □ 1 - <5 %
CAS: 69-72-7	<b>Salicylic acid</b> Acute Tox. 4: H302; Eye Dam. 1: H318; Repr. 2: H361 - Danger	! □ □ 1 - <5 %

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

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
2,2'-iminodiethylamine CAS: 111-40-0	LD50 oral	1620 mg/kg	Rat
	LD50 dermal	1045 mg/kg	Rabbit
	LC50 inhalation	Not relevant	
benzyl alcohol CAS: 100-51-6	LD50 oral	500 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation	Not relevant	
Formaldehyde, polymer with benzenamine, hydrogenated CAS: 135108-88-2	LD50 oral	51 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation	Not relevant	
4,4'-methylenebis(cyclohexylamine) CAS: 1761-71-3	LD50 oral	480 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation	Not relevant	

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

Identification	Acute toxicity		Genus
Salicylic acid	LD50 oral	891 mg/kg	Rat
CAS: 69-72-7	LD50 dermal	Not relevant	
	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:**

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

**By skin contact:**

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

**By eye contact:**

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

**By ingestion/aspiration:**

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

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

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

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

Not relevant

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

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

**Unsuitable extinguishing media:**

Non-applicable

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

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

**5.3 Advice for firefighters:**

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

**Additional provisions:**

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

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**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**

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

**7.2 Conditions for safe storage, including any incompatibilities:**
**A.- Specific storage requirements**

Minimum Temp.: 5 °C

Maximum Temp.: 30 °C

**B.- General conditions for storage**

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

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

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

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**
**8.1 Control parameters:**

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

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

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

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

Identification	Short exposure		Long exposure	
	Systemic	Local	Systemic	Local
benzyl alcohol CAS: 100-51-6 EC: 202-859-9	Oral	Not relevant	Not relevant	Not relevant
	Dermal	40 mg/kg	Not relevant	8 mg/kg
	Inhalation	110 mg/m³	Not relevant	22 mg/m³
Formaldehyde, polymer with benzenamine, hydrogenated CAS: 135108-88-2 EC: Non-applicable	Oral	Not relevant	Not relevant	Not relevant
	Dermal	6 mg/kg	Not relevant	2 mg/kg
	Inhalation	2 mg/m³	Not relevant	0.2 mg/m³
2,2'-iminodiethylamine CAS: 111-40-0 EC: 203-865-4	Oral	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	11.4 mg/kg
	Inhalation	92.1 mg/m³	2.6 mg/m³	15.4 mg/m³
4,4'-methylenebis(cyclohexylamine) CAS: 1761-71-3 EC: 217-168-8	Oral	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	0.1 mg/kg
	Inhalation	Not relevant	Not relevant	1 mg/m³
Salicylic acid CAS: 69-72-7 EC: 200-712-3	Oral	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	2.3 mg/kg
	Inhalation	Not relevant	Not relevant	5 mg/m³

**DNEL (General population):**

Identification	Short exposure		Long exposure	
	Systemic	Local	Systemic	Local
benzyl alcohol CAS: 100-51-6 EC: 202-859-9	Oral	20 mg/kg	Not relevant	4 mg/kg
	Dermal	20 mg/kg	Not relevant	4 mg/kg
	Inhalation	27 mg/m³	Not relevant	5.4 mg/m³
2,2'-iminodiethylamine CAS: 111-40-0 EC: 203-865-4	Oral	Not relevant	Not relevant	Not relevant
	Dermal	4.88 mg/kg	Not relevant	4.88 mg/kg
	Inhalation	27.5 mg/m³	Not relevant	4.6 mg/m³
4,4'-methylenebis(cyclohexylamine) CAS: 1761-71-3 EC: 217-168-8	Oral	Not relevant	Not relevant	0.06 mg/kg
	Dermal	Not relevant	Not relevant	0.06 mg/kg
	Inhalation	Not relevant	Not relevant	0.21 mg/m³
Salicylic acid CAS: 69-72-7 EC: 200-712-3	Oral	4 mg/kg	Not relevant	1 mg/kg
	Dermal	Not relevant	Not relevant	1 mg/kg
	Inhalation	Not relevant	Not relevant	4 mg/m³

**PNEC:**

Identification	STP	39 mg/L	Fresh water	1 mg/L
benzyl alcohol CAS: 100-51-6 EC: 202-859-9	Soil	0.456 mg/kg	Marine water	0.1 mg/L
	Intermittent	2.3 mg/L	Sediment (Fresh water)	5.27 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.527 mg/kg
Formaldehyde, polymer with benzenamine, hydrogenated CAS: 135108-88-2 EC: Non-applicable	STP	1.9 mg/L	Fresh water	0.015 mg/L
	Soil	1.8 mg/kg	Marine water	0.002 mg/L
	Intermittent	0.15 mg/L	Sediment (Fresh water)	15 mg/kg
	Oral	Not relevant	Sediment (Marine water)	1.5 mg/kg
2,2'-iminodiethylamine CAS: 111-40-0 EC: 203-865-4	STP	6 mg/L	Fresh water	0.56 mg/L
	Soil	7.97 mg/kg	Marine water	0.056 mg/L
	Intermittent	0.32 mg/L	Sediment (Fresh water)	1072 mg/kg
	Oral	Not relevant	Sediment (Marine water)	107.2 mg/kg
4,4'-methylenebis(cyclohexylamine) CAS: 1761-71-3 EC: 217-168-8	STP	3.2 mg/L	Fresh water	0.08 mg/L
	Soil	27.2 mg/kg	Marine water	0.008 mg/L
	Intermittent	0.08 mg/L	Sediment (Fresh water)	137 mg/kg
	Oral	Not relevant	Sediment (Marine water)	13.7 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**

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

**C.- Specific protection for the hands**

Pictogram	PPE	Remarks
 Mandatory hand protection	Chemical protective gloves (Material: Nitrile, Breakthrough time: > 480 min, Thickness: 0.1 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
 Mandatory face protection	Face shield	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

**E.- Body protection**

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

**F.- Additional emergency measures**

Emergency measure	Standards	Emergency measure	Standards
 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

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

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

V.O.C. (Supply):	51 % weight
V.O.C. density at 20 °C:	523.35 kg/m³ (523.35 g/L)

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**
**9.1 Information on basic physical and chemical properties:**

For complete information see the product datasheet.

**Appearance:**

Physical state at 20 °C:	Liquid
Appearance:	Viscous
Colour:	Grey, Yellow
Odour:	Characteristic
Odour threshold:	Not relevant *

**Volatility:**

Boiling point at atmospheric pressure:	215 °C
Vapour pressure at 20 °C:	11 Pa
Vapour pressure at 50 °C:	110.43 Pa (0.11 kPa)
Evaporation rate at 20 °C:	Not relevant *

**Product description:**

Density at 20 °C:	1026.2 kg/m³
Relative density at 20 °C:	1.67 - 1.71
Dynamic viscosity at 20 °C:	Not relevant *
Kinematic viscosity at 20 °C:	Not relevant *
Kinematic viscosity at 40 °C:	>20.5 mm²/s
Concentration:	Not relevant *
pH:	Not relevant *
Vapour density at 20 °C:	Not relevant *
Partition coefficient n-octanol/water 20 °C:	Not relevant *
Solubility in water at 20 °C:	Not relevant *
Solubility properties:	Insoluble in water
Decomposition temperature:	Not relevant *
Melting point/freezing point:	Not relevant *

**Flammability:**

Flash Point:	129 °C
Flammability (solid, gas):	Not relevant *
Autoignition temperature:	338 °C
Lower flammability limit:	Not relevant *
Upper flammability limit:	Not relevant *

**Particle characteristics:**

Median equivalent diameter:	Non-applicable
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**9.2 Other information:**

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

Explosive properties:	Not relevant *
Oxidising properties:	Not relevant *
Corrosive to metals:	Not relevant *
Heat of combustion:	Not relevant *
Aerosols-total percentage (by mass) of flammable components:	Not relevant *

**Other safety characteristics:**

Surface tension at 20 °C:	Not relevant *
Refraction index:	Not relevant *
Total lead:	0 ppm

\*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 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: 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 : 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.
- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract

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

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

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

- Contact with the eyes: Produces serious eye damage after contact.

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

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.

IARC: 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. 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, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

**Other information:**

Not relevant

**Product-specific toxicological information:**

Acute toxicity		Genus
LD50 oral	1500 mg/kg	
LC50 inhalation	20 mg/L	

**Specific toxicology information on the substances:**

Identification	Acute toxicity		Genus
2,2'-iminodiethylamine CAS: 111-40-0	LD50 oral	1620 mg/kg	Rat
	LD50 dermal	1045 mg/kg (ATEi)	Rabbit
	LC50 inhalation	>20 mg/L	
benzyl alcohol CAS: 100-51-6	LD50 oral	500 mg/kg	Rat
	LD50 dermal	2500 mg/kg	
	LC50 inhalation	>20 mg/L	
Formaldehyde, polymer with benzenamine, hydrogenated CAS: 135108-88-2	LD50 oral	51 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	
4,4'-methylenebis(cyclohexylamine) CAS: 1761-71-3	LD50 oral	480 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	
Salicylic acid CAS: 69-72-7	LD50 oral	891 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>5 mg/L	

**SECTION 12: ECOLOGICAL INFORMATION**

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

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

Harmful to aquatic life with long lasting effects.

**12.1 Toxicity:**
**Acute toxicity:**

Identification	Concentration		Species	Genus
benzyl alcohol CAS: 100-51-6	LC50	646 mg/L (48 h)	Leuciscus idus	Fish
	EC50	400 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	79 mg/L (3 h)	Scenedesmus subspicatus	Algae
Formaldehyde, polymer with benzenamine, hydrogenated CAS: 135108-88-2	LC50	>10 - 100 mg/L (96 h)		Fish
	EC50	>10 - 100 mg/L (48 h)		Crustacean
	EC50	>10 - 100 mg/L (72 h)		Algae
2,2'-iminodiethylamine CAS: 111-40-0	LC50	430 mg/L (96 h)	Poecilia reticulata	Fish
	EC50	16 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	187 mg/L (72 h)	Selenastrum capricornutum	Algae
4,4'-methylenebis(cyclohexylamine) CAS: 1761-71-3	LC50	67.8 mg/L (96 h)	Leuciscus idus	Fish
	EC50	2.5 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Not relevant		

**Chronic toxicity:**

Identification	Concentration		Species	Genus
benzyl alcohol CAS: 100-51-6	NOEC	48.897 mg/L	N/A	Fish
	NOEC	51 mg/L	Daphnia magna	Crustacean
2,2'-iminodiethylamine CAS: 111-40-0	NOEC	10 mg/L	Gasterosteus aculeatus	Fish
	NOEC	5.6 mg/L	Daphnia magna	Crustacean
4,4'-methylenebis(cyclohexylamine) CAS: 1761-71-3	NOEC	1 mg/L	N/A	Fish
	NOEC	4 mg/L	Daphnia magna	Crustacean

**12.2 Persistence and degradability:**
**Substance-specific information:**

Identification	Degradability		Biodegradability	
	BOD5	Not relevant	Concentration	100 mg/L
benzyl alcohol CAS: 100-51-6	COD	Not relevant	Period	14 days
	BOD5/COD	Not relevant	% Biodegradable	94 %
Formaldehyde, polymer with benzenamine, hydrogenated CAS: 135108-88-2	BOD5	Not relevant	Concentration	100 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	0 %
2,2'-iminodiethylamine CAS: 111-40-0	BOD5	Not relevant	Concentration	10 mg/L
	COD	Not relevant	Period	21 days
	BOD5/COD	Not relevant	% Biodegradable	87 %

**12.3 Bioaccumulative potential:**
**Substance-specific information:**

Identification	Bioaccumulation potential	
benzyl alcohol CAS: 100-51-6	BCF	0
	Pow Log	1.1
	Potential	Low
Formaldehyde, polymer with benzenamine, hydrogenated CAS: 135108-88-2	BCF	20
	Pow Log	4.02
	Potential	Low
2,2'-iminodiethylamine CAS: 111-40-0	BCF	2
	Pow Log	-1.3
	Potential	Low

**12.4 Mobility in soil:**

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

Identification	Absorption/desorption		Volatile	
benzyl alcohol CAS: 100-51-6	Koc	Not relevant	Henry	Not relevant
	Conclusion	Not relevant	Dry soil	Not relevant
	Surface tension	3.679E-2 N/m (25 °C)	Moist soil	Not relevant
Formaldehyde, polymer with benzenamine, hydrogenated CAS: 135108-88-2	Koc	9988	Henry	Not relevant
	Conclusion	Immobile	Dry soil	Not relevant
	Surface tension	Not relevant	Moist soil	Not relevant
2,2'-iminodiethylamine CAS: 111-40-0	Koc	Not relevant	Henry	Not relevant
	Conclusion	Not relevant	Dry soil	Not relevant
	Surface tension	4.164E-2 N/m (25 °C)	Moist soil	Not relevant
Salicylic acid CAS: 69-72-7	Koc	Not relevant	Henry	Not relevant
	Conclusion	Not relevant	Dry soil	Not relevant
	Surface tension	2.444E-2 N/m (207.25 °C)	Moist soil	Not relevant

Insoluble in water

**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:**
**Type of waste:**

HP14 Ecotoxic, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, 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 The Waste (England & Wales) Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

**Regulations related to waste management:**

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

UK legislation: The Waste (England &amp; 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:

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


<b>14.1 UN number:</b>	UN2735
<b>14.2 UN proper shipping name:</b>	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Formaldehyde, polymer with benzenamine, hydrogenated)
<b>14.3 Transport hazard class(es):</b>	8
Labels:	8
<b>14.4 Packing group:</b>	II
<b>14.5 Environmental hazards:</b>	No
<b>14.6 Special precautions for user</b>	
Tunnel restriction code:	E
Physico-Chemical properties:	see section 9
Limited quantities:	1 L
<b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:</b>	Not relevant

**Transport of dangerous goods by sea:**

With regard to IMDG 41-22:



<b>14.1 UN number:</b>	UN2735
<b>14.2 UN proper shipping name:</b>	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Formaldehyde, polymer with benzenamine, hydrogenated)
<b>14.3 Transport hazard class(es):</b>	8
Labels:	8
<b>14.4 Packing group:</b>	II
<b>14.5 Marine pollutant:</b>	No
<b>14.6 Special precautions for user</b>	
Special regulations:	274
EmS Codes:	F-A, S-B
Physico-Chemical properties:	see section 9
Limited quantities:	1 L
Segregation group:	SGG18
<b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:</b>	Not relevant

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2024:



<b>14.1 UN number:</b>	UN2735
<b>14.2 UN proper shipping name:</b>	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Formaldehyde, polymer with benzenamine, hydrogenated)
<b>14.3 Transport hazard class(es):</b>	8
Labels:	8
<b>14.4 Packing group:</b>	II
<b>14.5 Environmental hazards:</b>	No
<b>14.6 Special precautions for user</b>	
Physico-Chemical properties:	see section 9
<b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:</b>	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 ....):**

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### SECTION 15: REGULATORY INFORMATION (continued)

Shall not be used in:

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

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

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

**Other legislation:**

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.

Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits.

### SECTION 16: OTHER INFORMATION

**Legislation related to safety data sheets:**

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

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

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H373: May cause damage to organs through prolonged or repeated exposure.

H412: Harmful to aquatic life with long lasting effects.

H317: May cause an allergic skin reaction.

H302+H332: Harmful if swallowed or if inhaled.

**Texts of the legislative phrases mentioned in section 3:**

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

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

Acute Tox. 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 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: H361 - Suspected of damaging fertility or 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 Corr. 1C: H314 - Causes severe skin burns and eye damage.

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

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

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

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

STOT SE 3: H335 - May cause respiratory irritation.

**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: Octanol/water 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 -