

## rbs Injection Resin LV Kit - Crack Sealer A

Date of compilation: 20/12/2022




Revised: 20/12/2023

Version: 1

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

- 1.1 Product identifier:** rbs Injection Resin LV Kit - Crack Sealer A  
**Other means of identification:**  
Non-applicable
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses: Adhesive for construction  
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:**  
Resapol Ltd  
Unit D4, Moss Industrial Estate  
WN7 3PT Leigh - United Kingdom  
Phone: +441942 609 001  
www.resapol.com
- 1.4 Emergency telephone number:** +44 (0)1942 609 002 (Mon - Fri 08:00 - 17:00)

### SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture:**  
**GB CLP Regulation:**  
Classification of this product has been carried out in accordance with GB CLP Regulation.  
Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411  
Eye Dam. 1: Serious eye damage, Category 1, H318  
Skin Irrit. 2: Skin irritation, Category 2, H315  
Skin Sens. 1: Sensitisation, skin, Category 1, H317
- 2.2 Label elements:**  
**GB CLP Regulation:**  
Danger
- 


- Hazard statements:**  
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.  
Eye Dam. 1: H318 - Causes serious eye damage.  
Skin Irrit. 2: H315 - Causes skin irritation.  
Skin Sens. 1: H317 - May cause an allergic skin reaction.
- Precautionary statements:**  
P264: Wash thoroughly after use.  
P280: Wear protective gloves/protective clothing/respiratory protection/eye protection/protective footwear.  
P302+P352: IF ON SKIN: Wash with plenty of soap and 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.  
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:**  
EUH205: Contains epoxy constituents. May produce an allergic reaction.
- Substances that contribute to the classification**  
Bis-[4-(2,3-epoxypropoxy)phenyl]propane; Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol; 1,4-bis(2,3 epoxypropoxy)butane
- 2.3 Other hazards:**  
Product does not meet PBT/vPvB criteria

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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

#### 3.1 Substance:

Non-applicable

#### 3.2 Mixture:

**Chemical description:** Mixture composed of additives, pigments and resins

#### 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: 1675-54-3	<b>Bis-[4-(2,3-epoxypropoxy)phenyl]propane</b> Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	50 - <75 %
CAS: 9003-36-5	<b>Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol</b> Aquatic Chronic 2: H411; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	25 - <50 %
CAS: 2425-79-8	<b>1,4-bis(2,3 epoxypropoxy)butane</b> Acute Tox. 4: H312+H332; Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger	15 - <25 %

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

#### Other information:

Identification	Specific concentration limit
Bis-[4-(2,3-epoxypropoxy)phenyl]propane CAS: 1675-54-3	% (w/w) >=5: Skin Irrit. 2 - H315 % (w/w) >=5: Eye Irrit. 2 - H319

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
1,4-bis(2,3 epoxypropoxy)butane CAS: 2425-79-8	LD50 oral 1163 mg/kg (ATEi) LD50 dermal 1100 mg/kg (ATEi) LC50 inhalation 1.5 mg/L (ATEi)	Rat

### SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures:

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

##### By inhalation:

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

##### By skin contact:

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

##### By eye contact:

Rinse eyes thoroughly with 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:

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

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

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

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

Non-applicable

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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,...).

##### 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 spilled 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:

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:

##### 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

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

#### 7.2 Conditions for safe storage, including any incompatibilities:

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### SECTION 7: HANDLING AND STORAGE (continued)

#### A.- Technical measures for storage

Store in a cool, dry, well-ventilated location

#### 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
Bis-[4-(2,3-epoxipropoxy)phenyl]propane CAS: 1675-54-3 EC: 216-823-5	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0.75 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	4.93 mg/m <sup>3</sup>	Non-applicable
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol CAS: 9003-36-5 EC: 500-006-8	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	104.15 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	29.39 mg/m <sup>3</sup>	Non-applicable
1,4-bis(2,3 epoxypropoxy)butane CAS: 2425-79-8 EC: 219-371-7	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	6.66 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	4.7 mg/m <sup>3</sup>	Non-applicable

#### DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Bis-[4-(2,3-epoxipropoxy)phenyl]propane CAS: 1675-54-3 EC: 216-823-5	Oral	Non-applicable	Non-applicable	0.5 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0.0893 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0.87 mg/m <sup>3</sup>	Non-applicable
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol CAS: 9003-36-5 EC: 500-006-8	Oral	Non-applicable	Non-applicable	6.25 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	62.5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	8.7 mg/m <sup>3</sup>	Non-applicable
1,4-bis(2,3 epoxypropoxy)butane CAS: 2425-79-8 EC: 219-371-7	Oral	Non-applicable	Non-applicable	0.33 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	3.33 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	1.16 mg/m <sup>3</sup>	Non-applicable

#### PNEC:

Identification					
Bis-[4-(2,3-epoxipropoxy)phenyl]propane CAS: 1675-54-3 EC: 216-823-5	STP	10 mg/L	Fresh water	0.006 mg/L	
	Soil	0.065 mg/kg	Marine water	0.001 mg/L	
	Intermittent	0.018 mg/L	Sediment (Fresh water)	0.341 mg/kg	
	Oral	0.011 g/kg	Sediment (Marine water)	0.034 mg/kg	
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol CAS: 9003-36-5 EC: 500-006-8	STP	10 mg/L	Fresh water	0.003 mg/L	
	Soil	0.237 mg/kg	Marine water	0 mg/L	
	Intermittent	0.025 mg/L	Sediment (Fresh water)	0.294 mg/kg	
	Oral	Non-applicable	Sediment (Marine water)	0.029 mg/kg	

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


Identification				
1,4-bis(2,3 epoxypropoxy)butane CAS: 2425-79-8 EC: 219-371-7	STP	100 mg/L	Fresh water	0.024 mg/L
	Soil	0.003 mg/kg	Marine water	0.002 mg/L
	Intermittent	0.24 mg/L	Sediment (Fresh water)	0.084 mg/kg
	Oral	0.000028 g/kg	Sediment (Marine water)	0.008 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 <<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 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	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	Protective gloves against minor risks	Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN ISO 21420:2020 and EN ISO 374-1:2016+ A1:2018

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	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
	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.
	Anti-slip work shoes	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 20345:2012 y EN 13832-1:2007

##### F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

#### Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

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

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

V.O.C. (Supply):	0 % weight
V.O.C. density at 20 °C:	0 kg/m <sup>3</sup> (0 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:	Not available
Appearance:	Not available
Colour:	Not available
Odour:	Not available
Odour threshold:	Non-applicable *

##### Volatility:

Boiling point at atmospheric pressure:	Non-applicable *
Vapour pressure at 20 °C:	Non-applicable *
Vapour pressure at 50 °C:	Non-applicable *
Evaporation rate at 20 °C:	Non-applicable *

##### Product description:

Density at 20 °C:	1121.5 kg/m <sup>3</sup>
Relative density at 20 °C:	1.121
Dynamic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 40 °C:	Non-applicable *
Concentration:	Non-applicable *
pH:	Non-applicable *
Vapour density at 20 °C:	Non-applicable *
Partition coefficient n-octanol/water 20 °C:	Non-applicable *
Solubility in water at 20 °C:	Non-applicable *
Solubility properties:	Non-applicable *
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *

##### Flammability:

Flash Point:	Non-applicable
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	260 °C
Lower flammability limit:	Non-applicable *
Upper flammability limit:	Non-applicable *

##### Particle characteristics:

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

##### Information with regard to physical hazard classes:

Explosive properties:	Non-applicable *
Oxidising properties:	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)

Corrosive to metals:	Non-applicable *
Heat of combustion:	Non-applicable *
Aerosols-total percentage (by mass) of flammable components:	Non-applicable *
<b>Other safety characteristics:</b>	
Surface tension at 20 °C:	Non-applicable *
Refraction index:	Non-applicable *

\*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	Not applicable	Not applicable	Avoid alkalis or strong bases

#### 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects:

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

##### Dangerous health implications:

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

##### A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for consumption. For more information see section 3
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

##### 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: 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.

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

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

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### SECTION 11: TOXICOLOGICAL INFORMATION (continued)

#### 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: Bis-[4-(2,3-epoxypropoxy)phenyl]propane (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

#### E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, 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:

Non-applicable

#### Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
1,4-bis(2,3 epoxypropoxy)butane CAS: 2425-79-8	LD50 oral	1163 mg/kg (ATEi)	Rat
	LD50 dermal	1100 mg/kg (ATEi)	
	LC50 inhalation	1.5 mg/L (ATEi)	
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol CAS: 9003-36-5	LD50 oral	>5000 mg/kg	
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	
Bis-[4-(2,3-epoxypropoxy)phenyl]propane CAS: 1675-54-3	LD50 oral	>5000 mg/kg	
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	

### 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
Bis-[4-(2,3-epoxypropoxy)phenyl]propane CAS: 1675-54-3	LC50	2 mg/L (96 h)	Oncorhynchus mykiss	Fish
	EC50	1.7 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	9.4 mg/L (72 h)	Scenedesmus subspicatus	Algae
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol CAS: 9003-36-5	LC50	>1 - 10 mg/L (96 h)		Fish
	EC50	>1 - 10 mg/L (48 h)		Crustacean
	EC50	>1 - 10 mg/L (72 h)		Algae

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

Identification	Concentration	Species	Genus
1,4-bis(2,3 epoxipropoxy)butane CAS: 2425-79-8	LC50 >10 - 100 mg/L (96 h)		Fish
	EC50 >10 - 100 mg/L (48 h)		Crustacean
	EC50 >10 - 100 mg/L (72 h)		Algae

**Chronic toxicity:**

Identification	Concentration	Species	Genus
Bis-[4-(2,3-epoxipropoxy)phenyl]propane CAS: 1675-54-3	NOEC Non-applicable		
	NOEC 0.3 mg/L	Daphnia magna	Crustacean

**12.2 Persistence and degradability:**

**Substance-specific information:**

Identification	Degradability	Biodegradability	
Bis-[4-(2,3-epoxipropoxy)phenyl]propane CAS: 1675-54-3	BOD5	Non-applicable	Concentration Non-applicable
	COD	Non-applicable	Period 28 days
	BOD5/COD	Non-applicable	% Biodegradable 5 %

**12.3 Bioaccumulative potential:**

**Substance-specific information:**

Identification	Bioaccumulation potential	
Bis-[4-(2,3-epoxipropoxy)phenyl]propane CAS: 1675-54-3	BCF	31
	Pow Log	3
	Potential	Moderate

**12.4 Mobility in soil:**

Identification	Absorption/desorption	Volatility	
Bis-[4-(2,3-epoxipropoxy)phenyl]propane CAS: 1675-54-3	Koc	450	Henry Non-applicable
	Conclusion	Low	Dry soil Non-applicable
	Surface tension	Non-applicable	Moist soil Non-applicable

**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, HP13 Sensitising, HP4 Irritant — skin irritation and eye damage

**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 & Wales) Regulations 2011.

**SECTION 14: TRANSPORT INFORMATION**

**Transport of dangerous goods by land:**

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

With regard to ADR 2023 and RID 2023:

		<b>14.1 UN number:</b>	UN3082
		<b>14.2 UN proper shipping name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis-[4-(2,3-epoxipropoxy)phenyl]propane)
		<b>14.3 Transport hazard class(es):</b>	9
		Labels:	9
		<b>14.4 Packing group:</b>	III
		<b>14.5 Environmental hazards:</b>	Yes
		<b>14.6 Special precautions for user</b>	
		Tunnel restriction code:	-
		Physico-Chemical properties:	see section 9
		Limited quantities:	5 L
		<b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:</b>	Non-applicable



**Transport of dangerous goods by sea:**

With regard to IMDG 40-20:

		<b>14.1 UN number:</b>	UN3082
		<b>14.2 UN proper shipping name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis-[4-(2,3-epoxipropoxy)phenyl]propane)
		<b>14.3 Transport hazard class(es):</b>	9
		Labels:	9
		<b>14.4 Packing group:</b>	III
		<b>14.5 Marine pollutant:</b>	Yes
		<b>14.6 Special precautions for user</b>	
		Special regulations:	335, 969, 274
		EmS Codes:	F-A, S-F
		Physico-Chemical properties:	see section 9
		Limited quantities:	5 L
		Segregation group:	Non-applicable
		<b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:</b>	Non-applicable

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2023:

		<b>14.1 UN number:</b>	UN3082
		<b>14.2 UN proper shipping name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis-[4-(2,3-epoxipropoxy)phenyl]propane)
		<b>14.3 Transport hazard class(es):</b>	9
		Labels:	9
		<b>14.4 Packing group:</b>	III
		<b>14.5 Environmental hazards:</b>	Yes
		<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>	Non-applicable

**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): Non-applicable
- Substances listed in UK REACH Authorisation List (Annex 14): Non-applicable

**The Control of Major Accident Hazards Regulations 2015:**

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

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## rbs Injection Resin LV Kit - Crack Sealer A

Date of compilation: 15/12/2022

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Version: 5 (Replaced 4)

### SECTION 15: REGULATORY INFORMATION (continued)

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

Non-applicable

#### **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:**

H315: Causes skin irritation.

H318: Causes serious eye damage.

H317: May cause an allergic skin reaction.

H411: Toxic to aquatic life with long lasting effects.

#### **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:**

Acute Tox. 4: H312+H332 - Harmful in contact with skin 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.

Skin Irrit. 2: H315 - Causes skin irritation.

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

#### **Classification procedure:**

Skin Irrit. 2: Calculation method

Eye Dam. 1: Calculation method

Skin Sens. 1: Calculation method

Aquatic Chronic 2: 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



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

- 1.1 Product identifier:** rbs Injection Resin LV Kit - Crack Sealer B  
**Other means of identification:**  
Not relevant
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses: Adhesive for construction. For professional users/industrial user 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:**  
Resapol Ltd  
Unit D4, Moss Industrial Estate  
WN7 3PT Leigh - United Kingdom  
Phone: +441942 609 001  
www.resapol.com
- 1.4 Emergency telephone number:** +44 (0)1942 609 002 (Mon - Fri 08:00 - 17:00)

## SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture:**  
**GB CLP Regulation:**  
Classification of this product has been carried out in accordance with GB CLP Regulation.  
Acute Tox. 4: Acute toxicity, Category 4, H302+H312  
Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411  
Repr. 2: Reproductive toxicity, Category 2, H361  
Skin Corr. 1B: Skin corrosion, Category 1B, H314  
Skin Sens. 1: Sensitisation, skin, Category 1, H317  
STOT RE 1: Specific target organ toxicity, repeated exposure, Category 1, H372

**2.2 Label elements:**

**GB CLP Regulation:**

Danger



**Hazard statements:**

Acute Tox. 4: H302+H312 - Harmful if swallowed or in contact with skin.  
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.  
Repr. 2: H361 - Suspected of damaging fertility or the unborn child.  
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.  
Skin Sens. 1: H317 - May cause an allergic skin reaction.  
STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure.

**Precautionary statements:**

P260: Do not breathe vapours  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection.  
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P363: Wash contaminated clothing before reuse.

**Supplementary information:**

Contains 2-piperazin-1-ylethylamine, 3-aminopropyltrimethylamine, 3-aminopropyltriethoxysilane, benzyl alcohol, 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, Phenol, methylstyrenated, Phenol, styrenated.

**2.3 Other hazards:**

Product does not meet PBT/vPvB criteria

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substance:

Non-applicable

#### 3.2 Mixture:

**Chemical description:** Mixture composed of additives, pigments and resins

#### 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: 68512-30-1	<b>Phenol, methylstyrenated</b> Aquatic Chronic 3: H412; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	25 - <50 %
CAS: 140-31-8	<b>2-piperazin-1-ylethylamine</b> Acute Tox. 3: H311; Acute Tox. 4: H302; Aquatic Chronic 3: H412; Repr. 2: H361; Skin Corr. 1B: H314; Skin Sens. 1: H317; STOT RE 1: H372 - Danger	15 - <25 %
CAS: 61788-44-1	<b>Phenol, styrenated</b> Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1A: H317 - Warning	10 - <15 %
CAS: 100-51-6	<b>benzyl alcohol</b> Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Sens. 1B: H317 - Warning	5 - <10 %
CAS: 90-72-2	<b>2,4,6-tris(dimethylaminomethyl)phenol</b> Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning	5 - <10 %
CAS: 2579-20-6	<b>1,3-Cyclohexanedimethanamine</b> Acute Tox. 4: H302+H312; Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Corr. 1A: H314 - Danger	1 - <5 %
CAS: 68082-29-1	<b>Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine</b> Aquatic Chronic 2: H411; Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1A: H317 - Danger	1 - <5 %
CAS: 69-72-7	<b>Salicylic acid</b> Acute Tox. 4: H302; Eye Dam. 1: H318; Repr. 2: H361d - Danger	1 - <5 %
CAS: 186321-96-0	<b>Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine</b> Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger	1 - <5 %
CAS: 38640-62-9	<b>Bis(isopropyl)naphthalene</b> Aquatic Chronic 1: H410; Asp. Tox. 1: H304 - Danger	0.5 - <1 %
CAS: 109-55-7	<b>3-aminopropylidimethylamine</b> Acute Tox. 4: H302; Eye Dam. 1: H318; Flam. Liq. 3: H226; Skin Corr. 1B: H314; Skin Sens. 1: H317; STOT SE 3: H335 - Danger	0.1 - <0.5 %
CAS: 919-30-2	<b>3-aminopropyltriethoxysilane</b> Acute Tox. 4: H302; Eye Dam. 1: H318; Skin Corr. 1B: H314; Skin Sens. 1: H317 - Danger	0.1 - <0.5 %

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-piperazin-1-ylethylamine CAS: 140-31-8	LD50 oral	500 mg/kg (ATEi)
	LD50 dermal	866 mg/kg
	LC50 inhalation	Not relevant
1,3-Cyclohexanedimethanamine CAS: 2579-20-6	LD50 oral	700 mg/kg
	LD50 dermal	1700 mg/kg
	LC50 inhalation	Not relevant
Salicylic acid CAS: 69-72-7	LD50 oral	891 mg/kg
	LD50 dermal	Not relevant
	LC50 inhalation	Not relevant
benzyl alcohol CAS: 100-51-6	LD50 oral	500 mg/kg
	LD50 dermal	Not relevant
	LC50 inhalation	11 mg/L (ATEi)

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**rbs Injection Resin LV Kit - Crack  
Sealer B**



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

Identification	Acute toxicity		Genus
2,4,6-tris(dimethylaminomethyl)phenol CAS: 90-72-2	LD50 oral	1200 mg/kg	Rat
	LD50 dermal	1100 mg/kg (ATEi)	
	LC50 inhalation	Not relevant	
3-aminopropyldimethylamine CAS: 109-55-7	LD50 oral	1870 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation	Not relevant	
3-aminopropyltriethoxysilane CAS: 919-30-2	LD50 oral	1491 mg/kg	Rat
	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, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

**Unsuitable extinguishing media:**

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

**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:**

- CONTINUED ON NEXT PAGE -



## SECTION 5: FIREFIGHTING MEASURES (continued)

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.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures:

#### For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

#### For emergency responders:

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

### 6.2 Environmental precautions:

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

### 6.3 Methods and material for containment and cleaning up:

It is recommended:

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

### 6.4 Reference to other sections:

See sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling:

#### A.- General precautions for safe use

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

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

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Consult section 10 for conditions and materials that should be avoided.

#### C.- Technical recommendations on general occupational hygiene

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

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.- Technical measures for storage

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):

- CONTINUED ON NEXT PAGE -





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## SECTION 7: HANDLING AND STORAGE (continued)

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
Phenol, methylstyrenated CAS: 68512-30-1 EC: 270-966-8	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	3.5 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	1.41 mg/m <sup>3</sup>	Not relevant
2-piperazin-1-ylethylamine CAS: 140-31-8 EC: 205-411-0	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	3.33 mg/kg	Not relevant
	Inhalation	10.6 mg/m <sup>3</sup>	80 mg/m <sup>3</sup>	10.6 mg/m <sup>3</sup>	0.015 mg/m <sup>3</sup>
Phenol, styrenated CAS: 61788-44-1 EC: 262-975-0	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	21 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	74 mg/m <sup>3</sup>	Not relevant
benzyl alcohol CAS: 100-51-6 EC: 202-859-9	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	40 mg/kg	Not relevant	8 mg/kg	Not relevant
	Inhalation	110 mg/m <sup>3</sup>	Not relevant	22 mg/m <sup>3</sup>	Not relevant
2,4,6-tris(dimethylaminomethyl)phenol CAS: 90-72-2 EC: 202-013-9	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	0.15 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	0.53 mg/m <sup>3</sup>	Not relevant
1,3-Cyclohexanedimethanamine CAS: 2579-20-6 EC: 219-941-5	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	25.2 mg/kg	Not relevant	0.1 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	Not relevant	0.00947 mg/m <sup>3</sup>
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine CAS: 68082-29-1 EC: 500-191-5	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	1.1 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	3.9 mg/m <sup>3</sup>	Not relevant
Salicylic acid CAS: 69-72-7 EC: 200-712-3	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	2.3 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine CAS: 186321-96-0 EC: 606-078-8	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	1 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	7.05 mg/m <sup>3</sup>	Not relevant
Bis(isopropyl)naphthalene CAS: 38640-62-9 EC: 254-052-6	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	2.38 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	8.4 mg/m <sup>3</sup>	Not relevant
3-aminopropyldimethylamine CAS: 109-55-7 EC: 203-680-9	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
	Inhalation	Not relevant	Not relevant	1.2 mg/m <sup>3</sup>	Not relevant
3-aminopropyltriethoxysilane CAS: 919-30-2 EC: 213-048-4	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	2 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	14 mg/m <sup>3</sup>	Not relevant

#### DNEL (General population):

- CONTINUED ON NEXT PAGE -





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

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Phenol, methylstyrenated CAS: 68512-30-1 EC: 270-966-8	Oral	Not relevant	Not relevant	0.2 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	1.67 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	0.348 mg/m <sup>3</sup>	Not relevant
Phenol, styrenated CAS: 61788-44-1 EC: 262-975-0	Oral	Not relevant	Not relevant	7.5 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	7.5 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	13.1 mg/m <sup>3</sup>	Not relevant
benzyl alcohol CAS: 100-51-6 EC: 202-859-9	Oral	20 mg/kg	Not relevant	4 mg/kg	Not relevant
	Dermal	20 mg/kg	Not relevant	4 mg/kg	Not relevant
	Inhalation	27 mg/m <sup>3</sup>	Not relevant	5.4 mg/m <sup>3</sup>	Not relevant
2,4,6-tris(dimethylaminomethyl)phenol CAS: 90-72-2 EC: 202-013-9	Oral	Not relevant	Not relevant	0.075 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	0.075 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	0.13 mg/m <sup>3</sup>	Not relevant
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine CAS: 68082-29-1 EC: 500-191-5	Oral	Not relevant	Not relevant	0.56 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	0.56 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	0.97 mg/m <sup>3</sup>	Not relevant
Salicylic acid CAS: 69-72-7 EC: 200-712-3	Oral	4 mg/kg	Not relevant	1 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	1 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	4 mg/m <sup>3</sup>	Not relevant
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine CAS: 186321-96-0 EC: 606-078-8	Oral	Not relevant	Not relevant	0.5 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	0.5 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	1.74 mg/m <sup>3</sup>	Not relevant
Bis(isopropyl)naphthalene CAS: 38640-62-9 EC: 254-052-6	Oral	Not relevant	Not relevant	0.85 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	0.85 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	1.48 mg/m <sup>3</sup>	Not relevant
3-aminopropyltriethoxysilane CAS: 919-30-2 EC: 213-048-4	Oral	Not relevant	Not relevant	1 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	1 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	3.5 mg/m <sup>3</sup>	Not relevant

### PNEC:

Identification				
Phenol, methylstyrenated CAS: 68512-30-1 EC: 270-966-8	STP	2.4 mg/L	Fresh water	0.014 mg/L
	Soil	212.2 mg/kg	Marine water	0.0014 mg/L
	Intermittent	0.14 mg/L	Sediment (Fresh water)	1064 mg/kg
	Oral	0.00889 g/kg	Sediment (Marine water)	106.4 mg/kg
2-piperazin-1-ylethylamine CAS: 140-31-8 EC: 205-411-0	STP	250 mg/L	Fresh water	0.058 mg/L
	Soil	1 mg/kg	Marine water	0.006 mg/L
	Intermittent	0.58 mg/L	Sediment (Fresh water)	215 mg/kg
	Oral	Not relevant	Sediment (Marine water)	21.5 mg/kg
Phenol, styrenated CAS: 61788-44-1 EC: 262-975-0	STP	36.2 mg/L	Fresh water	0.004 mg/L
	Soil	0.0473 mg/kg	Marine water	0.0004 mg/L
	Intermittent	0.046 mg/L	Sediment (Fresh water)	0.248 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.0248 mg/kg
benzyl alcohol CAS: 100-51-6 EC: 202-859-9	STP	39 mg/L	Fresh water	1 mg/L
	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
2,4,6-tris(dimethylaminomethyl)phenol CAS: 90-72-2 EC: 202-013-9	STP	0.2 mg/L	Fresh water	0.046 mg/L
	Soil	0.025 mg/kg	Marine water	0.005 mg/L
	Intermittent	0.46 mg/L	Sediment (Fresh water)	0.262 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.026 mg/kg

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


Identification				
1,3-Cyclohexanedimethanamine CAS: 2579-20-6 EC: 219-941-5	STP	10 mg/L	Fresh water	0.033 mg/L
	Soil	0.024 mg/kg	Marine water	0.003 mg/L
	Intermittent	0.331 mg/L	Sediment (Fresh water)	0.218 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.022 mg/kg
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine CAS: 68082-29-1 EC: 500-191-5	STP	3.84 mg/L	Fresh water	0.004 mg/L
	Soil	86.78 mg/kg	Marine water	0 mg/L
	Intermittent	0.043 mg/L	Sediment (Fresh water)	434.02 mg/kg
	Oral	Not relevant	Sediment (Marine water)	43.4 mg/kg
Salicylic acid CAS: 69-72-7 EC: 200-712-3	STP	162 mg/L	Fresh water	0.2 mg/L
	Soil	0.166 mg/kg	Marine water	0.02 mg/L
	Intermittent	1 mg/L	Sediment (Fresh water)	1.42 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.142 mg/kg
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine CAS: 186321-96-0 EC: 606-078-8	STP	1.58 mg/L	Fresh water	0.000186 mg/L
	Soil	11.1 mg/kg	Marine water	0.000019 mg/L
	Intermittent	0.00186 mg/L	Sediment (Fresh water)	0.005 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.0005 mg/kg
Bis(isopropyl)naphthalene CAS: 38640-62-9 EC: 254-052-6	STP	0.15 mg/L	Fresh water	0 mg/L
	Soil	0.171 mg/kg	Marine water	0 mg/L
	Intermittent	Not relevant	Sediment (Fresh water)	0.853 mg/kg
	Oral	0.025 g/kg	Sediment (Marine water)	0.085 mg/kg
3-aminopropyldimethylamine CAS: 109-55-7 EC: 203-680-9	STP	10 mg/L	Fresh water	0.073 mg/L
	Soil	0.104 mg/kg	Marine water	0.007 mg/L
	Intermittent	0.34 mg/L	Sediment (Fresh water)	0.735 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.073 mg/kg
3-aminopropyltriethoxysilane CAS: 919-30-2 EC: 213-048-4	STP	1.3 mg/L	Fresh water	Not relevant
	Soil	Not relevant	Marine water	Not relevant
	Intermittent	Not relevant	Sediment (Fresh water)	Not relevant
	Oral	Not relevant	Sediment (Marine water)	Not relevant

### 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: Butyl, Breakthrough time: > 480 min, Thickness: 0.7 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.

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



### 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

### 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):	43.64 % weight
V.O.C. density at 20 °C:	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 °C:	Liquid
Appearance:	Fluid
Colour:	 Amber
Odour:	Ammoniacal
Odour threshold:	Not relevant *

#### Volatility:

Boiling point at atmospheric pressure:	222 °C
Vapour pressure at 20 °C:	28 Pa
Vapour pressure at 50 °C:	216.07 Pa (0.22 kPa)
Evaporation rate at 20 °C:	Not relevant *

#### Product description:

Density at 20 °C:	Not relevant *
Relative density at 20 °C:	~1

\*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)

Dynamic viscosity at 20 °C:	Not relevant *
Kinematic viscosity at 20 °C:	Not relevant *
Kinematic viscosity at 40 °C:	Not relevant *
Concentration:	Not relevant *
pH:	12 (at 10 %)
Vapour density at 20 °C:	Not relevant *
Partition coefficient n-octanol/water 20 °C:	Not relevant *
Solubility in water at 20 °C:	Not relevant *
Solubility properties:	Not relevant *
Decomposition temperature:	Not relevant *
Melting point/freezing point:	Not relevant *
<b>Flammability:</b>	
Flash Point:	Non Flammable (>60 °C)
Flammability (solid, gas):	Not relevant *
Autoignition temperature:	300 °C
Lower flammability limit:	Not relevant *
Upper flammability limit:	Not relevant *
<b>Particle characteristics:</b>	
Median equivalent diameter:	Non-applicable

### 9.2 Other information:

#### Information with regard to physical hazard classes:

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

#### Other safety characteristics:

Surface tension at 20 °C:	Not relevant *
Refraction index:	Not relevant *

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

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

### 10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

### 10.3 Possibility of hazardous reactions:

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

### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Precaution	Precaution	Not applicable

### 10.5 Incompatible materials:

- CONTINUED ON NEXT PAGE -



## SECTION 10: STABILITY AND REACTIVITY (continued)

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

### 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:

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, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract

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

- Contact with the skin: 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: Cyclohexanone (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: 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:

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: Serious health effects in the case of prolonged consumption, including death, serious functional disorders or morphological changes of toxicological importance.
- 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 relevant

#### Specific toxicology information on the substances:

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## SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Identification	Acute toxicity		Genus
2-piperazin-1-ylethylamine CAS: 140-31-8	LD50 oral	500 mg/kg (ATEi)	
	LD50 dermal	866 mg/kg (ATEi)	Rabbit
	LC50 inhalation	>20 mg/L	
1,3-Cyclohexanedimethanamine CAS: 2579-20-6	LD50 oral	700 mg/kg (ATEi)	Rat
	LD50 dermal	1700 mg/kg (ATEi)	Rabbit
	LC50 inhalation	>20 mg/L	
Phenol, styrenated CAS: 61788-44-1	LD50 oral	>5000 mg/kg	
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	
Salicylic acid CAS: 69-72-7	LD50 oral	891 mg/kg (ATEi)	Rat
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>5 mg/L	
Phenol, methylstyrenated CAS: 68512-30-1	LD50 oral	>5000 mg/kg	
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine CAS: 68082-29-1	LD50 oral	>5000 mg/kg	
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine CAS: 186321-96-0	LD50 oral	>5000 mg/kg	
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	
benzyl alcohol CAS: 100-51-6	LD50 oral	500 mg/kg (ATEi)	Rat
	LD50 dermal	2500 mg/kg	
	LC50 inhalation	11 mg/L (ATEi)	
2,4,6-tris(dimethylaminomethyl)phenol CAS: 90-72-2	LD50 oral	1200 mg/kg (ATEi)	Rat
	LD50 dermal	1100 mg/kg (ATEi)	
	LC50 inhalation	>20 mg/L	
Bis(isopropyl)naphthalene CAS: 38640-62-9	LD50 oral	>5000 mg/kg	
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	
3-aminopropyldimethylamine CAS: 109-55-7	LD50 oral	1870 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	
3-aminopropyltriethoxysilane CAS: 919-30-2	LD50 oral	1491 mg/kg	Rat
	LD50 dermal	4000 mg/kg	Rabbit
	LC50 inhalation	>20 mg/L	

## 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
Phenol, methylstyrenated CAS: 68512-30-1	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-piperazin-1-ylethylamine CAS: 140-31-8	LC50	2190 mg/L (96 h)	Pimephales promelas	Fish
	EC50	58 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	>1000 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae

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## SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Concentration	Species	Genus
Phenol, styrenated CAS: 61788-44-1	LC50 >1 - 10 mg/L (96 h)		Fish
	EC50 >1 - 10 mg/L (48 h)		Crustacean
	EC50 >1 - 10 mg/L (72 h)		Algae
2,4,6-tris(dimethylaminomethyl)phenol CAS: 90-72-2	LC50 345 mg/L (96 h)	QSAR	Fish
	EC50 Not relevant		
	EC50 Not relevant		
1,3-Cyclohexanedimethanamine CAS: 2579-20-6	LC50 130 mg/L (96 h)	Leuciscus idus	Fish
	EC50 33 mg/L (48 h)	Daphnia magna	Crustacean
	EC50 30 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine CAS: 68082-29-1	LC50 7 mg/L (96 h)	Danio rerio	Fish
	EC50 7 mg/L (48 h)	Daphnia magna	Crustacean
	EC50 4 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine CAS: 186321-96-0	LC50 1.8 mg/L (96 h)	Oncorhynchus mykiss	Fish
	EC50 0.7 mg/L (48 h)	Daphnia magna	Crustacean
	EC50 0.77 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Bis(isopropyl)naphthalene CAS: 38640-62-9	LC50 >0.1 - 1 mg/L (96 h)		Fish
	EC50 >0.1 - 1 mg/L (48 h)		Crustacean
	EC50 >0.1 - 1 mg/L (72 h)		Algae

### 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
3-aminopropyldimethylamine CAS: 109-55-7	NOEC Not relevant		
	NOEC 3.64 mg/L	Daphnia magna	Crustacean

## 12.2 Persistence and degradability:

### Substance-specific information:

Identification	Degradability	Biodegradability
2-piperazin-1-ylethylamine CAS: 140-31-8	BOD5 Not relevant	Concentration 30 mg/L
	COD Not relevant	Period 28 days
	BOD5/COD Not relevant	% Biodegradable 0 %
Phenol, styrenated CAS: 61788-44-1	BOD5 Not relevant	Concentration Not relevant
	COD Not relevant	Period 28 days
	BOD5/COD Not relevant	% Biodegradable 7 %
benzyl alcohol CAS: 100-51-6	BOD5 Not relevant	Concentration 100 mg/L
	COD Not relevant	Period 14 days
	BOD5/COD Not relevant	% Biodegradable 94 %
1,3-Cyclohexanedimethanamine CAS: 2579-20-6	BOD5 Not relevant	Concentration 100 mg/L
	COD Not relevant	Period 28 days
	BOD5/COD Not relevant	% Biodegradable 29 %
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine CAS: 186321-96-0	BOD5 Not relevant	Concentration 2 mg/L
	COD Not relevant	Period 28 days
	BOD5/COD Not relevant	% Biodegradable 9 %
3-aminopropyltriethoxysilane CAS: 919-30-2	BOD5 Not relevant	Concentration Not relevant
	COD Not relevant	Period 28 days
	BOD5/COD Not relevant	% Biodegradable 67 %

## 12.3 Bioaccumulative potential:

### Substance-specific information:

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## SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Bioaccumulation potential	
2-piperazin-1-ylethylamine CAS: 140-31-8	BCF	3
	Pow Log	-1.48
	Potential	Low
benzyl alcohol CAS: 100-51-6	BCF	0
	Pow Log	1.1
	Potential	Low
2,4,6-tris(dimethylaminomethyl)phenol CAS: 90-72-2	BCF	3
	Pow Log	0.77
	Potential	Low
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine CAS: 68082-29-1	BCF	77
	Pow Log	
	Potential	Moderate

### 12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
2-piperazin-1-ylethylamine CAS: 140-31-8	Koc	37000	Henry	0E+0 Pa·m <sup>3</sup> /mol
	Conclusion	Immobile	Dry soil	Not relevant
	Surface tension	Not relevant	Moist soil	Not relevant
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
2,4,6-tris(dimethylaminomethyl)phenol CAS: 90-72-2	Koc	15130	Henry	9.312E-12 Pa·m <sup>3</sup> /mol
	Conclusion	Immobile	Dry soil	No
	Surface tension	Not relevant	Moist soil	No
1,3-Cyclohexanedimethanamine CAS: 2579-20-6	Koc	30	Henry	Not relevant
	Conclusion	Very High	Dry soil	Not relevant
	Surface tension	Not relevant	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

### 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.

#### 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.

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## SECTION 14: TRANSPORT INFORMATION



### Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023:

		<b>14.1 UN number:</b>	UN2735
		<b>14.2 UN proper shipping name:</b>	AMINES, LIQUID, CORROSIVE, N.O.S. (2-piperazin-1-ylethylamine; Phenol, styrenated)
		<b>14.3 Transport hazard class(es):</b>	8
		Labels:	8
		<b>14.4 Packing group:</b>	II
		<b>14.5 Environmental hazards:</b>	Yes
		<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>	AMINES, LIQUID, CORROSIVE, N.O.S. (2-piperazin-1-ylethylamine; Phenol, styrenated)
		<b>14.3 Transport hazard class(es):</b>	8
		Labels:	8
		<b>14.4 Packing group:</b>	II
		<b>14.5 Marine pollutant:</b>	Yes
		<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>	AMINES, LIQUID, CORROSIVE, N.O.S. (2-piperazin-1-ylethylamine; Phenol, styrenated)
		<b>14.3 Transport hazard class(es):</b>	8
		Labels:	8
		<b>14.4 Packing group:</b>	II
		<b>14.5 Environmental hazards:</b>	Yes
		<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:**

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## SECTION 15: REGULATORY INFORMATION (continued)

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

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

Shall not be used in:

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

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

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

**Other legislation:**

The 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.

H317: May cause an allergic skin reaction.

H361: Suspected of damaging fertility or the unborn child.

H372: Causes damage to organs through prolonged or repeated exposure.

H411: Toxic to aquatic life with long lasting effects.

H302+H312: Harmful if swallowed or in contact with skin.

**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:**

Acute Tox. 3: H311 - Toxic in contact with skin.

Acute Tox. 4: H302 - Harmful if swallowed.

Acute Tox. 4: H302+H312 - Harmful if swallowed or in contact with skin.

Aquatic Acute 1: H400 - Very toxic to aquatic life.

Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.

Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.

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

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.

Eye Dam. 1: H318 - Causes serious eye damage.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Flam. Liq. 3: H226 - Flammable liquid and vapour.

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:**

- CONTINUED ON NEXT PAGE -

**rbs Injection Resin LV Kit - Crack  
Sealer B**



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**SECTION 16: OTHER INFORMATION (continued)**

Skin Corr. 1B: Calculation method  
Skin Sens. 1: Calculation method  
Repr. 2: Calculation method  
STOT RE 1: Calculation method  
Aquatic Chronic 2: Calculation method  
Acute Tox. 4: Calculation method

**Advice related to training:**

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

**Principal bibliographical sources:**

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

**Abbreviations and acronyms:**

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

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at 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 -