



## SAFETY DATA SHEET RT151 RESIN

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name RT151 RESIN

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

Identified uses Resin.

Uses advised against No specific uses advised against are identified.

#### 1.3. Details of the supplier of the safety data sheet

Supplier Resintech Ltd  
Unit 1-2 Horcott Industrial Estate  
Fairford  
Gloucestershire  
UK  
Tel: +44 (0)1285 712755  
Fax: +44 (0)1285 712999  
info@resintech.co.uk

#### 1.4. Emergency telephone number

Emergency telephone +44 (0)1285 712755 (Monday-Friday 8am-4.30pm)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (SI 2019 No. 720)

Physical hazards Not Classified

Health hazards Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317

Environmental hazards Aquatic Chronic 2 - H411

#### 2.2. Label elements

##### Hazard pictograms



Signal word Danger

Hazard statements  
H302+H332 Harmful if swallowed or if inhaled.  
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.

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<b>Precautionary statements</b>	<p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
<b>Supplemental label information</b>	<p>EUH205 Contains epoxy constituents. May produce an allergic reaction.</p> <p>EUH210 Safety data sheet available on request.</p>
<b>Contains</b>	bis-[4-(2,3-epoxipropoxy)phenyl]propane, 1,4-bis(2,3 epoxypoxy)butane
<b>Supplementary precautionary statements</b>	<p>P261 Avoid breathing vapour/ spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P312 Call a POISON CENTRE/doctor if you feel unwell.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P332+P313 If skin irritation occurs: Get medical advice/ attention.</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P391 Collect spillage.</p>

### 2.3. Other hazards

This substance is not classified as PBT or vPvB according to current UK criteria.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>Bis-[4-(2,3-epoxipropoxy)phenyl]propane</b> CAS number: 1675-54-3                      EC number: 216-823-5	<b>50-70%</b>
<b>Classification</b> Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	
<b>1,4-bis(2,3 epoxypoxy)butane</b> CAS number: 2425-79-8                      EC number: 219-371-7	<b>30-50%</b>
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412	

The full text for all hazard statements is displayed in Section 16.

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Show this Safety Data Sheet to the medical personnel.
<b>Inhalation</b>	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Remove any dentures. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.
<b>Skin contact</b>	It is important to remove the substance from the skin immediately. Remove contaminated clothing immediately and wash skin with soap and water. Continue to rinse for at least 10 minutes. In the event of any sensitisation symptoms developing, ensure further exposure is avoided. Get medical attention if symptoms are severe or persist after washing.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if symptoms are severe or persist after washing.
<b>Protection of first aiders</b>	First aid personnel should wear appropriate protective equipment during any rescue. If it is suspected that volatile contaminants are still present around the affected person, first aid personnel should wear an appropriate respirator or self-contained breathing apparatus. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.

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

<b>General information</b>	See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	Prolonged inhalation of high concentrations may damage respiratory system.
<b>Ingestion</b>	May cause discomfort if swallowed. May cause stomach pain or vomiting. May cause sensitisation or allergic reactions in sensitive individuals.
<b>Skin contact</b>	May cause skin sensitisation or allergic reactions in sensitive individuals. Redness. Irritating to skin.
<b>Eye contact</b>	Irritating to eyes.

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

<b>Notes for the doctor</b>	Treat symptomatically. May cause sensitisation or allergic reactions in sensitive individuals.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
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**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

### 5.2. Special hazards arising from the substance or mixture

**Specific hazards** Containers can burst violently or explode when heated, due to excessive pressure build-up.

**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Phenolics. Oxides of carbon.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing will provide a basic level of protection for chemical incidents.

## **SECTION 6: Accidental release measures**

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

**Personal precautions** No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Avoid contact with skin and eyes.

### 6.2. Environmental precautions

**Environmental precautions** Immiscible with water. Aquatic toxicity is unlikely to occur. However, large or frequent spills may have hazardous effects on the environment. Absorb spillage with non-combustible, absorbent material. Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

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

**Methods for cleaning up** Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Small Spillages: Collect spillage. Large Spillages: Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. For waste disposal, see Section 13.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

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<b>Usage precautions</b>	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Avoid discharge to the aquatic environment. Persons susceptible to allergic reactions should not handle this product. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.
<b>Advice on general occupational hygiene</b>	Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Take off contaminated clothing and wash it before reuse.

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

<b>Storage precautions</b>	Store away from incompatible materials (see Section 10). Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Bund storage facilities to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent.  Product may crystallise or separate if exposed to cold temperatures for extended periods of time. If this occurs, the product should be warmed to 38-60°C for one hour. If the product is in a bulk form stir until clear.
<b>Storage class</b>	Miscellaneous hazardous material storage.

### 7.3. Specific end use(s)

<b>Specific end use(s)</b>	The identified uses for this product are detailed in Section 1.2.
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## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### Bis-[4-(2,3-epoxipropoxy)phenyl]propane

No exposure limits known for ingredient(s).

##### 1,4-bis(2,3 epoxypropoxy)butane

No exposure limits known for ingredient(s).

#### Bis-[4-(2,3-epoxipropoxy)phenyl]propane (CAS: 1675-54-3)

<b>DNEL</b>	General population - Oral; Long term systemic effects: 0.75 mg/kg, bw/day General population - Dermal; Long term, Short term systemic effects: 3.571 mg/kg, bw/day Workers - Dermal; Short term, Long term systemic effects: 8.33 mg/kg, bw/day Workers - Inhalation; Short term, Long term systemic effects: 12.25 mg/m <sup>3</sup>
<b>PNEC</b>	Fresh water; 0.006 mg/l marine water; 0.0006 mg/l Intermittent release; 0.018 mg/l Sediment (Freshwater); 0.996 mg/kg Sediment (Marinewater); 0.0996 mg/kg Soil; 0.196 mg/kg STP; 10 mg/l

#### 1,4-bis(2,3 epoxypropoxy)butane (CAS: 2425-79-8)

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### DNEL

General population - Inhalation; Long term systemic effects: 1.16 mg/m<sup>3</sup>  
 General population - Oral; Long term systemic effects: 0.33 mg/kg, BW/d  
 General population - Dermal; Long term systemic effects: 3.33 mg/kg, BW/d  
 Workers - Dermal; Long term systemic effects: 6.66 mg/kg, BW/d  
 Workers - Inhalation; Long term systemic effects: 4.7 mg/m<sup>3</sup>

### PNEC

Fresh water; 0.024 mg/l  
 marine water; 0.002 mg/l  
 Sediment (Freshwater); 0.084 mg/kg  
 Sediment (Marinewater); 0.008 mg/kg  
 Soil; 0.003 mg/kg  
 STP; 100 mg/l

## 8.2. Exposure controls

### Protective equipment



### Appropriate engineering controls

Provide adequate ventilation. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimise exposure. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible.

### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment that provides appropriate eye and face protection should be worn. If inhalation hazards exist, a full-face respirator may be required instead.

### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation. Gloves made from the following material may provide suitable chemical protection: Butyl rubber. Nitrile rubber. Neoprene. Rubber (natural, latex). Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. The breakthrough time for any glove material may be different for different glove manufacturers. Frequent changes are recommended.

### Other skin and body protection

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

### Hygiene measures

Provide eyewash station. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

### Respiratory protection

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'UKCA'-marked. Gas and combination filter cartridges suitable for intended use should be used. Full face mask respirators with replaceable filter cartridges suitable for intended use should be used. Half mask and quarter mask respirators with replaceable filter cartridges suitable for intended use should be used.

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### Environmental exposure controls

Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Colourless to pale yellow.
Odour	Mild.
Initial boiling point and range	>200°C
Flash point	≥ 140°C Closed cup.
Relative density	1.3 @ 20°C
Solubility(ies)	Slightly soluble in water.
Auto-ignition temperature	260°C Estimated value.

#### 9.2. Other information

Other information	No information required.
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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Reactivity	See the other subsections of this section for further details.
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#### 10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
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#### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No potentially hazardous reactions known.
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#### 10.4. Conditions to avoid

Conditions to avoid	Static electricity and formation of sparks must be prevented. Avoid exposure to high temperatures or direct sunlight.
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#### 10.5. Incompatible materials

Materials to avoid	Strong alkalis. Oxidising materials. Strong acids. Amines.
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#### 10.6. Hazardous decomposition products

Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Carbon dioxide (CO <sub>2</sub> ).
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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity - oral

Notes (oral LD <sub>50</sub> )	Based on available data the classification criteria are not met.
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ATE oral (mg/kg)	674.0
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### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Based on available data the classification criteria are not met.

**ATE dermal (mg/kg)** 2,750.0

### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** Based on available data the classification criteria are not met.

**ATE inhalation (vapours mg/l)** 27.5

**ATE inhalation (dusts/mists mg/l)** 3.75

### Skin corrosion/irritation

**Animal data** Irritating.

### Serious eye damage/irritation

**Serious eye damage/irritation** Causes serious eye irritation.

### Respiratory sensitisation

**Respiratory sensitisation** Based on available data the classification criteria are not met.

### Skin sensitisation

**Skin sensitisation** May cause skin sensitisation or allergic reactions in sensitive individuals.

### Germ cell mutagenicity

**Genotoxicity - in vitro** Based on available data the classification criteria are not met.

### Carcinogenicity

**Carcinogenicity** Based on available data the classification criteria are not met.

**IARC carcinogenicity** None of the ingredients are listed or exempt.

### Reproductive toxicity

**Reproductive toxicity - fertility** Based on available data the classification criteria are not met.

**Reproductive toxicity - development** Based on available data the classification criteria are not met.

### Specific target organ toxicity - single exposure

**STOT - single exposure** Not classified as a specific target organ toxicant after a single exposure.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Not classified as a specific target organ toxicant after repeated exposure.

### Aspiration hazard

**Aspiration hazard** Based on available data the classification criteria are not met.

### General information

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation** Prolonged inhalation of high concentrations may damage respiratory system.

**Ingestion** May cause sensitisation or allergic reactions in sensitive individuals. May cause irritation.

**Skin contact** May cause skin sensitisation or allergic reactions in sensitive individuals. Redness. Irritating to skin.

**Eye contact** Irritating to eyes.

**Route of exposure** Ingestion Inhalation Skin and/or eye contact



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**Target organs** No specific target organs known.

**Medical considerations** Skin disorders and allergies.

### Toxicological information on ingredients.

#### Bis-[4-(2,3-epoxipropoxy)phenyl]propane

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** >1,500 mg/kg, Oral, Mouse

**ATE oral (mg/kg)** 500.0

##### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** 23032 mg/kg, Dermal, Rabbit

#### 1,4-bis(2,3 epoxypropoxy)butane

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 1,410.0

**Species** Rat

**ATE oral (mg/kg)** 1,410.0

##### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Conclusive data but not sufficient for classification.

**ATE dermal (mg/kg)** 1,100.0

##### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** Conclusive data but not sufficient for classification.

**ATE inhalation (vapours mg/l)** 11.0

**ATE inhalation (dusts/mists mg/l)** 1.5

### SECTION 12: Ecological information

**Ecotoxicity** The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

#### 12.1. Toxicity

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

##### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 2 mg/l, Fish  
Estimated value.

**Acute toxicity - aquatic invertebrates** LC<sub>50</sub>, 48 hours: 1.8 mg/l, Daphnia magna  
Estimated value.

**Acute toxicity - aquatic plants** LC<sub>50</sub>, 72 hours: 11 mg/l, Scenedesmus subspicatus  
Estimated value.

### Ecological information on ingredients.

#### Bis-[4-(2,3-epoxipropoxy)phenyl]propane

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### Acute aquatic toxicity

Acute toxicity - fish	LC <sub>50</sub> , 96 hours: 2 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 48 hours: 1.8 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC <sub>50</sub> , 72 hours: 11 mg/l, Scenedesmus subspicatus
Acute toxicity - microorganisms	IC <sub>50</sub> , 3 hours: >100 mg/l, Activated sludge

### Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 0.3 mg/l, Daphnia magna
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### 1,4-bis(2,3 epoxypropoxy)butane

### Acute aquatic toxicity

Acute toxicity - fish	LC <sub>50</sub> , 96 hours: 19.8 mg/l, Brachydanio rerio (Zebra Fish)
Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 24 hours: 75 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC <sub>50</sub> , 72 hours: >160 mg/l, Pseudokirchneriella subcapitata NOEC, 72 hours: 80 mg/l, Pseudokirchneriella subcapitata
Acute toxicity - microorganisms	IC <sub>50</sub> , 3 hours: >100 mg/l, Activated sludge

## 12.2. Persistence and degradability

**Persistence and degradability** Not readily biodegradable.

### Ecological information on ingredients.

### Bis-[4-(2,3-epoxipropoxy)phenyl]propane

Persistence and degradability	Not readily biodegradable.
Stability (hydrolysis)	pH4 - DT <sub>50</sub> : 4.83 days @ 25°C pH7 - DT <sub>50</sub> : 3.58 days @ 25°C pH9 - DT <sub>50</sub> : 7.1 days @ 25°C

### 1,4-bis(2,3 epoxypropoxy)butane

Persistence and degradability	Not readily biodegradable.
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## 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

### Ecological information on ingredients.

### Bis-[4-(2,3-epoxipropoxy)phenyl]propane

Bioaccumulative potential	The product is not bioaccumulating.
Partition coefficient	log Pow: 3.242 (25°C)

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### 1,4-bis(2,3 epoxypropoxy)butane

Partition coefficient      log Pow: -0.269 (25°C)

#### 12.4. Mobility in soil

**Mobility**      Slightly soluble in water. The product is non-volatile.

#### Ecological information on ingredients.

### Bis-[4-(2,3-epoxipropoxy)phenyl]propane

Adsorption/desorption coefficient      - Koc: 445 @ 20°C

### 1,4-bis(2,3 epoxypropoxy)butane

Adsorption/desorption coefficient      Soil - Koc: 12.59 @ 25°C

#### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment**      This product does not contain any substances classified as PBT or vPvB.

#### Ecological information on ingredients.

### Bis-[4-(2,3-epoxipropoxy)phenyl]propane

**Results of PBT and vPvB assessment**      This substance is not classified as PBT or vPvB according to current UK criteria.

### 1,4-bis(2,3 epoxypropoxy)butane

**Results of PBT and vPvB assessment**      This substance is not classified as PBT or vPvB according to current UK criteria.

#### 12.6. Other adverse effects

**Other adverse effects**      None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information**      The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

**Disposal methods**      Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

## SECTION 14: Transport information

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### 14.1. UN number

UN No. (ADR/RID)	3082
UN No. (IMDG)	3082
UN No. (ICAO)	3082
UN No. (ADN)	3082

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(bis-[4-(2,3-epoxipropoxi)phenyl]propane)
Proper shipping name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(bis-[4-(2,3-epoxipropoxi)phenyl]propane)
Proper shipping name (ICAO)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(bis-[4-(2,3-epoxipropoxi)phenyl]propane)
Proper shipping name (ADN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(bis-[4-(2,3-epoxipropoxi)phenyl]propane)

### 14.3. Transport hazard class(es)

ADR/RID class	9
ADR/RID classification code	M6
ADR/RID label	9
IMDG class	9
ICAO class/division	9
ADN class	9

#### Transport labels



### 14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III
ADN packing group	III

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

EmS	F-A, S-F
ADR transport category	3
Emergency Action Code	•3Z

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**Hazard Identification Number** 90  
(ADR/RID)

**Tunnel restriction code** (E)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

**Transport in bulk according to** Not applicable.

**Annex II of MARPOL 73/78  
and the IBC Code**

## SECTION 15: Regulatory information

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

**National regulations** Health and Safety at Work etc. Act 1974 (as amended).  
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment  
Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].  
EH40/2005 Workplace exposure limits.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### Inventories

#### **EU - EINECS/ELINCS**

None of the ingredients are listed or exempt.

## SECTION 16: Other information

**Abbreviations and acronyms  
used in the safety data sheet** ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.  
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.  
IATA: International Air Transport Association.  
ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.  
IMDG: International Maritime Dangerous Goods.  
CAS: Chemical Abstracts Service.  
ATE: Acute Toxicity Estimate.  
LC50: Lethal Concentration to 50 % of a test population.  
LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).  
EC<sub>50</sub>: 50% of maximal Effective Concentration.  
PBT: Persistent, Bioaccumulative and Toxic substance.  
vPvB: Very Persistent and Very Bioaccumulative.

**Classification abbreviations  
and acronyms** Eye Irrit. = Eye irritation  
Skin Irrit. = Skin irritation  
Skin Sens. = Skin sensitisation  
Aquatic Chronic = Hazardous to the aquatic environment (chronic)

**Classification procedures  
according to SI 2019 No. 720** Skin Irrit. 2 - H315: Eye Irrit. 2 - H319: Skin Sens. 1 - H317: : Expert judgement. Aquatic  
Chronic 2 - H411: : Expert judgement.

**Training advice** Read and follow manufacturer's recommendations. Only trained personnel should use this material.

**Revision date** 26/05/2020

**Revision** 8

## RT151 RESIN

<b>Supersedes date</b>	16/04/2018
<b>SDS number</b>	4742
<b>Hazard statements in full</b>	H302 Harmful if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.