



## SAFETY DATA SHEET BAL FLOOR EPOXY RESIN

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

#### 1.1. Product identifier

**Product name** BAL FLOOR EPOXY RESIN

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

**Identified uses** Grout

**Uses advised against** No specific uses advised against are identified.

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

**Supplier** Building Adhesives Ltd  
Longton Road,  
Trentham,  
Stoke on Trent  
ST4 8JB

01782 591100

**Contact person** sdsreply@building-adhesives.com

#### 1.4. Emergency telephone number

**Emergency telephone** UK and ROI:- 01865 407 333 (available 24/7/365) ROI:- +353 (0)1 809 2166 (available 8am-10pm, 7 days)

### SECTION 2: Hazards identification

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

##### Classification (EC 1272/2008)

**Physical hazards** Not Classified

**Health hazards** Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317

**Environmental hazards** Aquatic Chronic 2 - H411

**Human health** Irritating to eyes and skin. May cause sensitisation by skin contact.

**Environmental** The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

#### 2.2. Label elements

##### Hazard pictograms



**Signal word** Warning

## BAL FLOOR EPOXY RESIN

|                                       |   |
|---------------------------------------|---|
| <b>Hazard statements</b>              | H315 Causes skin irritation.<br>H319 Causes serious eye irritation.<br>H317 May cause an allergic skin reaction.<br>H411 Toxic to aquatic life with long lasting effects.   |
| <b>Precautionary statements</b>       | P102 Keep out of reach of children.<br>P261 Avoid breathing vapour/ spray.<br>P264 Wash contaminated skin thoroughly after handling.<br>P272 Contaminated work clothing should not be allowed out of the workplace.<br>P273 Avoid release to the environment.<br>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.<br>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P501 Dispose of contents/ container in accordance with local regulations. |
| <b>Supplemental label information</b> | EUH205 Contains epoxy constituents. May produce an allergic reaction.   |
| <b>Contains</b>                       | EPOXY RESIN (Number average MW <= 700 ), OXIRANE, MONO [(C12-14-ALKYLOXY)METHYL] DERIVS, FORMALDEHYDE, POLYMER WITH (CHLOROMETHYL)OXIRANE AND PHENOL, MW<700  |

### 2.3. Other hazards

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

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

|   |               |
|---|---------------|
| <b>EPOXY RESIN (Number average MW &lt;= 700 )</b>   | <b>30-60%</b> |
| CAS number: 25068-38-6                      EC number: 500-033-5  |               |
| <b>Classification</b><br>Skin Irrit. 2 - H315<br>Eye Irrit. 2 - H319<br>Skin Sens. 1 - H317<br>Aquatic Chronic 2 - H411 |               |
| <b>FORMALDEHYDE, POLYMER WITH (CHLOROMETHYL)OXIRANE AND PHENOL, MW&lt;700</b>   | <b>10-30%</b> |
| CAS number: 9003-36-5   |               |
| <b>Classification</b><br>Skin Irrit. 2 - H315<br>Skin Sens. 1 - H317<br>Aquatic Chronic 2 - H411                        |               |
| <b>OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS</b>  | <b>10-30%</b> |
| CAS number: 68609-97-2  |               |
| <b>Classification</b><br>Skin Irrit. 2 - H315<br>Skin Sens. 1 - H317  |               |

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

## BAL FLOOR EPOXY RESIN

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.   |
| <b>Ingestion</b>    | Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.             |
| <b>Skin contact</b> | Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.  |
| <b>Eye contact</b>  | Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention. |

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

|                            |  |
|----------------------------|--|
| <b>General information</b> | Not relevant.  |
| <b>Inhalation</b>          | No specific symptoms known.                              |
| <b>Ingestion</b>           | No specific symptoms known.                              |
| <b>Skin contact</b>        | Prolonged skin contact may cause redness and irritation. |
| <b>Eye contact</b>         | May cause severe eye irritation.                         |

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

|                             |                        |
|-----------------------------|------------------------|
| <b>Notes for the doctor</b> | Treat symptomatically. |
|-----------------------------|------------------------|

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

|                                       |   |
|---------------------------------------|---|
| <b>Suitable extinguishing media</b>   | The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire. |
| <b>Unsuitable extinguishing media</b> | Do not use water jet as an extinguisher, as this will spread the fire.                        |

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

|                                      |   |
|--------------------------------------|---|
| <b>Specific hazards</b>              | Fire creates: Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Halogenated hydrocarbons. Containers can burst violently or explode when heated, due to excessive pressure build-up. |
| <b>Hazardous combustion products</b> | Does not decompose when used and stored as recommended.   |

#### 5.3. Advice for firefighters

|  |   |
|--|---|
| <b>Protective actions during firefighting</b>        | Fight fire from safe distance or protected location.  |
| <b>Special protective equipment for firefighters</b> | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. |

### SECTION 6: Accidental release measures

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

|                             |   |
|-----------------------------|---|
| <b>Personal precautions</b> | Wear protective clothing as described in Section 8 of this safety data sheet. |
|-----------------------------|---|

#### 6.2. Environmental precautions

|                                  |  |
|----------------------------------|--|
| <b>Environmental precautions</b> | Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Avoid or minimise the creation of any environmental contamination. |
|----------------------------------|--|

## BAL FLOOR EPOXY RESIN

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

**Methods for cleaning up** Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses. Clean contaminated objects and areas thoroughly, observing environmental regulations.

### 6.4. Reference to other sections

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Avoid spilling. Avoid contact with skin and eyes.

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

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container.

**Storage class** Chemical storage.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

**Ingredient comments** WEL = Workplace Exposure Limits

#### EPOXY RESIN (Number average MW <= 700 ) (CAS: 25068-38-6)

|             |   |
|-------------|---|
| <b>DNEL</b> | Professional - Dermal; Short term systemic effects: 8.3 mg/kg/day                   |
|             | Professional - Inhalation; Short term systemic effects: 12.3 mg/m <sup>3</sup>      |
|             | Professional - Dermal; Long term systemic effects: 8.3 mg/kg/day                    |
|             | Professional - Inhalation; Long term systemic effects: 12.3 mg/m <sup>3</sup>       |
|             | Consumer - Dermal; Short term systemic effects: 3.6 mg/kg/day                       |
|             | Consumer - Inhalation; Short term systemic effects: 0.75 mg/m <sup>3</sup>          |
|             | Consumer - Oral; Short term systemic effects: 0.75 mg/kg/day                        |
|             | Consumer - Dermal; Long term systemic effects: 3.6 mg/kg/day                        |
|             | General population - Inhalation; Long term systemic effects: 0.75 mg/m <sup>3</sup> |
|             | General population - Oral; Long term systemic effects: 0.75 mg/kg/day               |

|             |                           |
|-------------|---------------------------|
| <b>PNEC</b> | Fresh water; 0.003 mg/l   |
|             | marine water; 0.0003 mg/l |

#### OXIRANE, MONO [(C12-14- ALKYL OXY)METHYL] DERIVS (CAS: 68609-97-2)

|             |   |
|-------------|---|
| <b>DNEL</b> | Workers - Dermal; Short term : 3.9 mg/kg/day              |
|             | Workers - Inhalation; Short term : 13.8 mg/m <sup>3</sup> |

|             |                            |
|-------------|----------------------------|
| <b>PNEC</b> | Fresh water; 0.0072 mg/l   |
|             | marine water; 0.00072 mg/l |

### 8.2. Exposure controls

## BAL FLOOR EPOXY RESIN

### Protective equipment



### Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

### Eye/face protection

The following protection should be worn: Chemical splash goggles.

### Hand protection

Use protective gloves.

### Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

### Hygiene measures

Provide eyewash station. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

### Respiratory protection

No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

## SECTION 9: Physical and chemical properties

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

|                 |                     |
|-----------------|---------------------|
| Appearance      | Liquid.             |
| Colour          | White.              |
| Odour           | Characteristic.     |
| pH              | Not applicable.     |
| Flash point     | > 100°C Closed cup. |
| Solubility(ies) | Insoluble in water. |

### 9.2. Other information

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

### 10.2. Chemical stability

|           |  |
|-----------|--|
| Stability | Stable at normal ambient temperatures. |
|-----------|--|

### 10.3. Possibility of hazardous reactions

|                                    |            |
|------------------------------------|------------|
| Possibility of hazardous reactions | Not known. |
|------------------------------------|------------|

### 10.4. Conditions to avoid

|                     |   |
|---------------------|---|
| Conditions to avoid | Avoid excessive heat for prolonged periods of time. Avoid contact with acids. |
|---------------------|---|

### 10.5. Incompatible materials

|                    |  |
|--------------------|--|
| Materials to avoid | Amines, mercaptans, Lewis Acids, caustic soda, bases, ammonia, alcohols and acids. |
|--------------------|--|

### 10.6. Hazardous decomposition products

|                                  |  |
|----------------------------------|--|
| Hazardous decomposition products | Does not decompose when used and stored as recommended. Fire creates: Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). |
|----------------------------------|--|

## BAL FLOOR EPOXY RESIN

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

|   |  |
|---|--|
| <b>Inhalation</b>                       | Irritating to respiratory system.  |
| <b>Ingestion</b>                        | May cause stomach pain or vomiting.  |
| <b>Skin contact</b>                     | May cause sensitisation by skin contact. Irritating to skin.   |
| <b>Eye contact</b>                      | Irritating to eyes.  |
| <b>Acute and chronic health hazards</b> | May cause respiratory system irritation. May cause sensitisation by skin contact. The product contains an epoxy resin. May cause sensitisation or allergic reactions in sensitive individuals. |
| <b>Route of exposure</b>                | Inhalation Skin absorption Skin and/or eye contact   |

#### Toxicological information on ingredients.

##### EPOXY RESIN (Number average MW <= 700 )

###### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 11,400.0

**Species** Rat

**ATE oral (mg/kg)** 11,400.0

###### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 20,000.0

**Species** Rabbit

**ATE dermal (mg/kg)** 20,000.0

**Skin contact** Slightly irritating.

##### OXIRANE, MONO [(C12-14- ALKYL OXY)METHYL] DERIVS

###### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 26,800.0

**Species** Rat

**ATE oral (mg/kg)** 26,800.0

### SECTION 12: Ecological information

**Ecotoxicity** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### 12.1. Toxicity

##### Ecological information on ingredients.

##### EPOXY RESIN (Number average MW <= 700 )

###### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 1.3 mg/l, Fish

## BAL FLOOR EPOXY RESIN

|   |  |
|---|--|
| <b>Acute toxicity - aquatic invertebrates</b>   | EC <sub>50</sub> , 48 hours: 2.1 mg/l, Daphnia magna                     |
| <b>Acute toxicity - aquatic plants</b>          | LC <sub>50</sub> , 72 hours: 11 mg/l, Algae                              |
| <b><u>Chronic aquatic toxicity</u></b>          |  |
| <b>Chronic toxicity - fish early life stage</b> | LC <sub>50</sub> , 96 hours: 2 mg/l, Oncorhynchus mykiss (Rainbow trout) |
| <b>Chronic toxicity - aquatic invertebrates</b> | NOEC, 21 days: 0.3 mg/l, Daphnia magna                                   |

### OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS

#### Acute aquatic toxicity

|   |  |
|---|--|
| <b>Acute toxicity - fish</b>                  | LC <sub>50</sub> , 96 hours: 1800 mg/l, Lepomis macrochirus (Bluegill)<br>LC <sub>50</sub> , 96 hours: >5000 mg/l, Oncorhynchus mykiss (Rainbow trout) |
| <b>Acute toxicity - aquatic invertebrates</b> | EC <sub>50</sub> , 48 hours: 7.2 mg/l, Daphnia magna   |
| <b>Acute toxicity - aquatic plants</b>        | EC <sub>50</sub> , 72 hours: 844 mg/l, Selenastrum capricornutum   |

## 12.2. Persistence and degradability

### Ecological information on ingredients.

#### EPOXY RESIN (Number average MW <= 700 )

|                                      |   |
|--------------------------------------|---|
| <b>Persistence and degradability</b> | Not expected to be readily biodegradable. |
|--------------------------------------|---|

### OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS

|                       |   |
|-----------------------|---|
| <b>Biodegradation</b> | The substance is readily biodegradable. |
|-----------------------|---|

## 12.3. Bioaccumulative potential

### Ecological information on ingredients.

#### EPOXY RESIN (Number average MW <= 700 )

|                                  |   |
|----------------------------------|---|
| <b>Bioaccumulative potential</b> | BCF: 3-31,  |
| <b>Partition coefficient</b>     | Partition coefficient, n-octanol/water log Pow 3.2 estimated. |

### OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS

|                                  |  |
|----------------------------------|--|
| <b>Bioaccumulative potential</b> | Potentially bioaccumulating. BCF: ~ 160-263, Estimated value., Fish                      |
| <b>Partition coefficient</b>     | Partition coefficient, n-octanol/water log Pow 3.77: OEECD 107 test: shake flask method. |

## 12.4. Mobility in soil

### Ecological information on ingredients.

#### EPOXY RESIN (Number average MW <= 700 )

**BAL FLOOR EPOXY RESIN**

**Adsorption/desorption coefficient** Expected to have a low potential for adsorption.

**OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS**

**Mobility** Not considered mobile.

**Adsorption/desorption coefficient** Koc >5000 OECD 121: HPLC method.

**12.5. Results of PBT and vPvB assessment****Ecological information on ingredients.****EPOXY RESIN (Number average MW <= 700 )**

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

**OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS**

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

**12.6. Other adverse effects****SECTION 13: Disposal considerations****13.1. Waste treatment methods**

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**SECTION 14: Transport information****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. (CONTAINS EPOXY RESIN (Number average MW <= 700 ), FORMALDEHYDE, POLYMER WITH (CHLOROMETHYL)OXIRANE AND PHENOL, MW<700)

**Proper shipping name (IMDG)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Number average MW <= 700 ), FORMALDEHYDE, POLYMER WITH (CHLOROMETHYL)OXIRANE AND PHENOL, MW<700)

**Proper shipping name (ICAO)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Number average MW <= 700 ), FORMALDEHYDE, POLYMER WITH (CHLOROMETHYL)OXIRANE AND PHENOL, MW<700)

**Proper shipping name (ADN)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Number average MW <= 700 ), FORMALDEHYDE, POLYMER WITH (CHLOROMETHYL)OXIRANE AND PHENOL, MW<700)

**14.3. Transport hazard class(es)**



**BAL FLOOR EPOXY RESIN**

|                             |    |
|-----------------------------|----|
| 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      |
| Hazard Identification Number (ADR/RID) | 90       |
| Tunnel restriction code                | (-)      |

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

|                |  |
|----------------|--|
| EU legislation | Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).<br>Commission Regulation (EU) No 2015/830 of 28 May 2015.<br>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). |
|----------------|--|

## BAL FLOOR EPOXY RESIN

**Guidance** Workplace Exposure Limits EH40.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

|                                  |   |
|----------------------------------|---|
| <b>Revision comments</b>         | 2   |
| <b>Issued by</b>                 | Technical Manager   |
| <b>Revision date</b>             | 05/05/2020  |
| <b>Hazard statements in full</b> | H315 Causes skin irritation.<br>H317 May cause an allergic skin reaction.<br>H319 Causes serious eye irritation.<br>H411 Toxic 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.