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

Hazard statements	H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	P102 Keep out of reach of children. P261 Avoid breathing vapour/ spray. P264 Wash contaminated skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 Dispose of contents/ container in accordance with local regulations.
Supplemental label information	EUH205 Contains epoxy constituents. May produce an allergic reaction.
Contains	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

EPOXY RESIN (Number average MW <= 700) **30-60%**

CAS number: 25068-38-6 EC number: 500-033-5

Classification
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Skin Sens. 1 - H317
Aquatic Chronic 2 - H411

FORMALDEHYDE, POLYMER WITH (CHLOROMETHYL)OXIRANE AND PHENOL, MW<700 **10-30%**

CAS number: 9003-36-5

Classification
Skin Irrit. 2 - H315
Skin Sens. 1 - H317
Aquatic Chronic 2 - H411

OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS **10-30%**

CAS number: 68609-97-2

Classification
Skin Irrit. 2 - H315
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

Inhalation Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

Ingestion 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.

Skin contact Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

Eye contact 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

General information Not relevant.

Inhalation No specific symptoms known.

Ingestion No specific symptoms known.

Skin contact Prolonged skin contact may cause redness and irritation.

Eye contact May cause severe eye irritation.

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

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

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 Fire creates: Carbon monoxide (CO). Carbon dioxide (CO_2). Halogenated hydrocarbons. Containers can burst violently or explode when heated, due to excessive pressure build-up.

Hazardous combustion products Does not decompose when used and stored as recommended.

5.3. Advice for firefighters

Protective actions during firefighting Fight fire from safe distance or protected location.

Special protective equipment for firefighters 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

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions 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)

DNEL
Professional - Dermal; Short term systemic effects: 8.3 mg/kg/day
Professional - Inhalation; Short term systemic effects: 12.3 mg/m³
Professional - Dermal; Long term systemic effects: 8.3 mg/kg/day
Professional - Inhalation; Long term systemic effects: 12.3 mg/m³
Consumer - Dermal; Short term systemic effects: 3.6 mg/kg/day
Consumer - Inhalation; Short term systemic effects: 0.75 mg/m³
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/m³
General population - Oral; Long term systemic effects: 0.75 mg/kg/day

PNEC
Fresh water; 0.003 mg/l
marine water; 0.0003 mg/l

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

DNEL
Workers - Dermal; Short term : 3.9 mg/kg/day
Workers - Inhalation; Short term : 13.8 mg/m³

PNEC
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_2).

BAL FLOOR EPOXY RESIN

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Inhalation	Irritating to respiratory system.
Ingestion	May cause stomach pain or vomiting.
Skin contact	May cause sensitisation by skin contact. Irritating to skin.
Eye contact	Irritating to eyes.
Acute and chronic health hazards	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.
Route of exposure	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_{50} mg/kg)	11,400.0
Species	Rat
ATE oral (mg/kg)	11,400.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	20,000.0
Species	Rabbit
ATE dermal (mg/kg)	20,000.0

Skin contact	Slightly irritating.

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

Acute toxicity - oral

Acute toxicity oral (LD_{50} 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_{50}, 96 hours: 1.3 mg/l, Fish

BAL FLOOR EPOXY RESIN

Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 2.1 mg/l, Daphnia magna
Acute toxicity - aquatic plants	LC_{50}, 72 hours: 11 mg/l, Algae

Chronic aquatic toxicity

Chronic toxicity - fish early life stage	LC_{50}, 96 hours: 2 mg/l, Oncorhynchus mykiss (Rainbow trout)
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 0.3 mg/l, Daphnia magna

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

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hours: 1800 mg/l, Lepomis macrochirus (Bluegill) LC_{80}, 96 hours: >5000 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 7.2 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 72 hours: 844 mg/l, Selenastrum capricornutum

12.2. Persistence and degradability

Ecological information on ingredients.

EPOXY RESIN (Number average MW <= 700)

Persistence and degradability	Not expected to be readily biodegradable.

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

Biodegradation	The substance is readily biodegradable.

12.3. Bioaccumulative potential

Ecological information on ingredients.

EPOXY RESIN (Number average MW <= 700)

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

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

Bioaccumulative potential	Potentially bioaccumulating. BCF: ~ 160-263, Estimated value., Fish
Partition coefficient	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). Commission Regulation (EU) No 2015/830 of 28 May 2015. 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

Revision comments 2

Issued by Technical Manager

Revision date 05/05/2020

Hazard statements in full H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
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.