

## SAFETY DATA SHEET BAL FLOOR EPOXY HARDENER

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 HARDENER		
1.2. Relevant identified uses of the substance or mixture and uses advised against			
Identified uses	As part of an epoxy resin based adhesive or grout.		
1.3. Details of the supplier of	f 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 n	umber		
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 identif	ication		
2.1. Classification of the sub	stance or mixture		
Classification (EC 1272/2008	<u>B)</u>		
Physical hazards	Not Classified		
Health hazards	Acute Tox. 4 - H302 Skin Corr. 1B - H314 Skin Sens. 1 - H317		
Environmental hazards	Aquatic Chronic 3 - H412		
2.2. Label elements Hazard pictograms			



Signal word	Danger
Hazard statements	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects.

Precautionary statements	<ul> <li>P102 Keep out of reach of children.</li> <li>P260 Do not breathe vapour/ spray.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.</li> <li>P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</li> <li>P501 Dispose of contents/ container in accordance with local regulations.</li> </ul>
Contains	ISOPHORONEDIAMINE, BENZYL ALCOHOL, TETRAETHYLENEPENTAMINE, BENZYLDIMETHYLAMINE, SALICYLIC ACID

#### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information	on ingredients	
3.2. Mixtures		
ISOPHORONEDIAMINE		10-30%
CAS number: 2855-13-2	EC number: 220-666-8	
Classification		
Acute Tox. 4 - H302		
Acute Tox. 4 - H312		
Skin Corr. 1B - H314		
Skin Sens. 1 - H317		
Aquatic Chronic 3 - H412		
BENZYL ALCOHOL		10-30%
CAS number: 100-51-6	EC number: 202-859-9	
Classification		
Acute Tox. 4 - H302		
Acute Tox. 4 - H332		
Eye Irrit. 2 - H319		
TETRAETHYLENEPENTAMINE		5-10%
CAS number: 112-57-2	EC number: 203-986-2	
Classification		
Acute Tox. 4 - H312		
Skin Corr. 1B - H314		
Eye Dam. 1 - H318		
Skin Sens. 1 - H317		
Aquatic Chronic 2 - H411		

BENZYLDIMETHYLAMINE	5-10%
CAS number: 103-83-3	EC number: 203-149-1
Classification	
Flam. Liq. 3 - H226	
Acute Tox. 3 - H301	
Acute Tox. 4 - H312	
Acute Tox. 4 - H332	
Skin Corr. 1B - H314	
Eye Dam. 1 - H318	
Aquatic Chronic 3 - H412	
SALICYLIC ACID	1-5%
CAS number: 69-72-7	
Acute Tox. 4 - H302	
Eye Dam. 1 - H318	
	ements is displayed in Section 16.
SECTION 4: First aid measur	
4.1. Description of first aid me	asures
Inhalation	Remove affected person from source of contamination. If breathing stops, provide artificial respiration. Keep affected person warm and at rest. Get medical attention immediately.
Ingestion	DO NOT induce vomiting. Get medical attention immediately. Rinse mouth thoroughly with water. Give plenty of water to drink.
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing. Continue to rinse for at least 15 minutes. Get medical attention. Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.
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	s and effects, both acute and delayed
General information	Get medical attention promptly if symptoms occur after washing.
4.3. Indication of any immedia	ate medical attention and special treatment needed
Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptly.
SECTION 5: Firefighting mea	sures
5.1. Extinguishing media	
Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.
5.2. Special hazards arising fr	rom the substance or mixture
Specific hazards	In case of fire, toxic and corrosive gases may be formed. Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.
Hazardous combustion products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.
5.3. Advice for firefighters	

Protective actions during firefighting	Avoid breathing fire gases or vapours.		
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, pro	tective equipment and emergency procedures		
Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet.		
6.2. Environmental precaution	<u>s</u>		
Environmental precautions	Avoid or minimise the creation of any environmental contamination.		
6.3. Methods and material for	containment and cleaning up		
Methods for cleaning up	Do not touch or walk into spilled material. Absorb spillage with sand or other inert absorbent. 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.		
6.4. Reference to other section	ns		
Reference to other sections	For personal protection, see Section 8.		
SECTION 7: Handling and sto	rage		
7.1. Precautions for safe hand	ling		
Usage precautions	Avoid spilling. Avoid contact with skin and eyes.		
7.2. Conditions for safe storag	e, 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	Corrosive 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 control	s/Personal protection		
8.1. Control parameters			
Ingredient comments	WEL = Workplace Exposure Limits		
ISOPHORONEDIAMINE (CAS: 2855-13-2)			
DNEL	Workers - Inhalation; Short term : 20.1 mg/m <sup>3</sup>		
PNEC	Fresh water; 0.06 mg/l marine water; 0.006 mg/l		
	BENZYL ALCOHOL (CAS: 100-51-6)		
DNEL	Workers - Dermal; Long term : 9.5 mg/kg/day Workers - Inhalation; Long term : 90 mg/m³		
PNEC	Fresh water; 1 mg/l marine water; 0.1 mg/l		
8.2. Exposure controls			

#### Protective equipment

dlh	
Appropriate engineering controls	Provide adequate general and local exhaust ventilation. 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 and safety shower. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn.
SECTION 9: Physical and che	emical properties
9.1. Information on basic phys	sical and chemical properties
Appearance	Coloured liquid.
Colour	Amber.
Odour	Pungent.
9.2. Other information	
Other information	No information required.
SECTION 10: Stability and rea	activity
SECTION 10: Stability and real 10.1. Reactivity	activity
· · ·	activity There are no known reactivity hazards associated with this product.
10.1. Reactivity	· · · · · · · · · · · · · · · · · · ·
10.1. Reactivity Reactivity	· · · · · · · · · · · · · · · · · · ·
10.1. Reactivity Reactivity 10.2. Chemical stability	There are no known reactivity hazards associated with this product. Stable at normal ambient temperatures.
10.1. ReactivityReactivity10.2. Chemical stabilityStability	There are no known reactivity hazards associated with this product. Stable at normal ambient temperatures.
10.1. Reactivity         Reactivity         10.2. Chemical stability         Stability         10.3. Possibility of hazardous         Possibility of hazardous	There are no known reactivity hazards associated with this product. Stable at normal ambient temperatures. <u>reactions</u> The following materials may react violently with the product: Strong acids. Strong oxidising
10.1. Reactivity         Reactivity         10.2. Chemical stability         Stability         10.3. Possibility of hazardous         Possibility of hazardous         reactions	There are no known reactivity hazards associated with this product. Stable at normal ambient temperatures. <u>reactions</u> The following materials may react violently with the product: Strong acids. Strong oxidising
10.1. Reactivity         Reactivity         10.2. Chemical stability         Stability         10.3. Possibility of hazardous         Possibility of hazardous         reactions         10.4. Conditions to avoid	There are no known reactivity hazards associated with this product. Stable at normal ambient temperatures. <u>reactions</u> The following materials may react violently with the product: Strong acids. Strong oxidising agents.
10.1. Reactivity         Reactivity         10.2. Chemical stability         Stability         10.3. Possibility of hazardous         Possibility of hazardous         reactions         10.4. Conditions to avoid         Conditions to avoid	There are no known reactivity hazards associated with this product. Stable at normal ambient temperatures. <u>reactions</u> The following materials may react violently with the product: Strong acids. Strong oxidising agents.
10.1. Reactivity         Reactivity         10.2. Chemical stability         Stability         10.3. Possibility of hazardous         Possibility of hazardous         reactions         10.4. Conditions to avoid         Conditions to avoid         10.5. Incompatible materials	There are no known reactivity hazards associated with this product. Stable at normal ambient temperatures. <b>reactions</b> The following materials may react violently with the product: Strong acids. Strong oxidising agents. Avoid excessive heat for prolonged periods of time. Strong oxidising agents. Alkali metals. Zinc, Nitrates, Peroxide.
10.1. ReactivityReactivity10.2. Chemical stabilityStability10.3. Possibility of hazardousPossibility of hazardousreactions10.4. Conditions to avoidConditions to avoid10.5. Incompatible materialsMaterials to avoid	There are no known reactivity hazards associated with this product. Stable at normal ambient temperatures. <b>reactions</b> The following materials may react violently with the product: Strong acids. Strong oxidising agents. Avoid excessive heat for prolonged periods of time. Strong oxidising agents. Alkali metals. Zinc, Nitrates, Peroxide.

#### 11.1. Information on toxicological effects

Acute toxicity - oral	
ATE oral (mg/kg)	500.0
Acute toxicity - dermal	
ATE dermal (mg/kg)	5,009.9
Acute toxicity - inhalation	
ATE inhalation (gases ppm)	26,470.59
ATE inhalation (vapours mg/l)	64.71
ATE inhalation (dusts/mists mg/l)	8.82
Inhalation	Vapour may irritate respiratory system/lungs.
Ingestion	Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.
Skin contact	May cause skin irritation/eczema.
Eye contact	Causes burns.
Terrie de rie el information, en in	

#### Toxicological information on ingredients.

#### ISOPHORONEDIAMINE

Acute toxicity - oral		
Acute toxicity oral (LD₅₀ mg/kg)	1,030.0	
Species	Rat	
ATE oral (mg/kg)	1,030.0	
Acute toxicity - dermal		
Acute toxicity dermal (LD₅₀ mg/kg)	1,840.0	
Species	Rabbit	
ATE dermal (mg/kg)	1,840.0	
		BENZYL ALCOHOL
Acute toxicity - oral		BENZYL ALCOHOL
Acute toxicity - oral Acute toxicity oral (LD₅₀ mg/kg)	1,360.0	BENZYL ALCOHOL
Acute toxicity oral (LD <sub>50</sub>	1,360.0 Mouse	BENZYL ALCOHOL
Acute toxicity oral (LD₅₀ mg/kg)		BENZYL ALCOHOL
Acute toxicity oral (LD₅₀ mg/kg) Species	Mouse	BENZYL ALCOHOL
Acute toxicity oral (LD <sub>50</sub> mg/kg) Species ATE oral (mg/kg)	Mouse 1,360.0	BENZYL ALCOHOL

#### TETRAETHYLENEPENTAMINE

	Acute toxicity - oral	
	Acute toxicity oral (LD₅₀ mg/kg)	3,990.0
	Species	Rat
	ATE oral (mg/kg)	3,990.0
		BENZYLDIMETHYLAMINE
	Acute toxicity - oral	
	Acute toxicity oral (LD₅₀ mg/kg)	265.0
	Species	Rat
	ATE oral (mg/kg)	265.0
		SALICYLIC ACID
	Acute toxicity - oral	
	ATE oral (mg/kg)	500.0
<b>SECTION 1</b>	2: Ecological information	
Ecotoxicity	No dat	a on possible environmental effects have been found.
12.1. Toxici	ty	
Ecological in	nformation on ingredients.	
		ISOPHORONEDIAMINE
	Acute aquatic toxicity	
	Acute toxicity - fish	LC50, 96 hours: 110 mg/l, Leuciscus idus (Golden orfe)
	Acute toxicity - aquatic invertebrates	EC₅₀, 48 hours: 23 mg/l, Daphnia magna
	Acute toxicity - aquatic plants	EC₅₀, 72 hours: >50 mg/l, Scenedesmus subspicatus
		BENZYL ALCOHOL
	Acute aquatic toxicity	
	Acute toxicity - fish	LC50, 96 hours: 10 mg/l, Lepomis macrochirus (Bluegill)
	Acute toxicity - aquatic invertebrates	EC₅₀, 24 hours: 400 mg/l, Daphnia magna
	tence and degradability	
		pected to be readily biodegradable.
	cumulative potential	
		ccumulate in soil and water systems.
<u>12.4. Mobili</u> Mobility		oduct has poor water solubility
Mobility	i ne pr	oduct has poor water-solubility.

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

Results of PBT and vPvB assessment	No information available.
12.6. Other adverse effects	
Other adverse effects	Not determined.
SECTION 13: Disposal conside	erations
13.1. Waste treatment method	<u>s</u>
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
SECTION 14: Transport inform	nation
14.1. UN number	
UN No. (ADR/RID)	2735
UN No. (IMDG)	2735
UN No. (ICAO)	2735
UN No. (ADN)	2735
14.2. UN proper shipping name	9
Proper shipping name (ADR/RID)	AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS ISOPHORONEDIAMINE, BENZYLDIMETHYLAMINE)
Proper shipping name (IMDG)	AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS ISOPHORONEDIAMINE, BENZYLDIMETHYLAMINE)
Proper shipping name (ICAO)	AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS ISOPHORONEDIAMINE, BENZYLDIMETHYLAMINE)
Proper shipping name (ADN)	AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS ISOPHORONEDIAMINE, BENZYLDIMETHYLAMINE)
14.3. Transport hazard class(e	s <u>)</u>
ADR/RID class	8
ADR/RID classification code	C7
ADR/RID label	8
IMDG class	8
ICAO class/division	8
ADN class	8
Transport labels	

#### 14.4. Packing group

ADR/RID packing group	II
IMDG packing group	II
ICAO packing group	II

ADN packing group	II	
14.5. Environmental hazards		
Environmentally hazardous substance/marine pollutant No.		
14.6. Special precautions for user		
IMDG Code segregation group	18. Alkalis	
EmS	F-A, S-B	
ADR transport category	2	
Emergency Action Code	2X	
Hazard Identification Number (ADR/RID)	80	
Tunnel restriction code	(E)	
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	

Guidance

Workplace Exposure Limits EH40.

amended).

#### 15.2. Chemical safety assessment

#### SECTION 16: Other information

Revision comments	2
Issued by	Technical Manager
Revision date	05/05/2020
Hazard statements in full	<ul> <li>H226 Flammable liquid and vapour.</li> <li>H302 Harmful if swallowed.</li> <li>H312 Harmful in contact with skin.</li> <li>H314 Causes severe skin burns and eye damage.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H318 Causes serious eye damage.</li> <li>H319 Causes serious eye irritation.</li> <li>H332 Harmful if inhaled.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>

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.