



SAFETY DATA SHEET

BAL EASYPOXY AG 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 EASYPOXY AG 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.

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 Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Corr. 1B - H314 Skin Sens. 1 - H317

Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411

Human health Corrosive. Prolonged contact causes serious eye and tissue damage.

Environmental The product contains a substance which may have hazardous effects on the environment.

2.2. Label elements

Hazard pictograms



Signal word

Danger

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Hazard statements	H302+H332 Harmful if swallowed or if inhaled. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	P102 Keep out of reach of children. P261 Avoid breathing vapours. P273 Avoid release to the environment. P280 Wear protective clothing, gloves, eye and face protection. P302+P352 IF ON SKIN: Wash with plenty of 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. P501 Dispose of contents/ container in accordance with local regulations.
Contains	TRIETHYLENETETRAMINE, DIETHYLENETRIAMINE, AMINO SILANE
Supplementary precautionary statements	P363 Wash contaminated clothing before reuse.

2.3. Other hazards

This product contains a substance classified as PBT.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

TRIETHYLENETETRAMINE	10-30%
CAS number: 112-24-3	EC number: 203-950-6
Classification	
Acute Tox. 4 - H312	
Skin Corr. 1B - H314	
Eye Dam. 1 - H318	
Skin Sens. 1 - H317	
Aquatic Chronic 3 - H412	
AMINES FROM FATTY ACIDS	5-10%
CAS number: —	
M factor (Acute) = 10	M factor (Chronic) = 10
Classification	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	
AMINO SILANE	1-5%
CAS number: 1760-24-3	
Classification	
Acute Tox. 4 - H332	
Eye Dam. 1 - H318	
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	

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DIETHYLENETRIAMINE	1-5%
CAS number: 111-40-0	EC number: 203-865-4
Classification	
Acute Tox. 4 - H302	
Acute Tox. 4 - H312	
Acute Tox. 1 - H330	
Skin Corr. 1B - H314	
Eye Dam. 1 - H318	
Skin Sens. 1 - H317	

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

SECTION 4: First aid measures**4.1. Description of first aid measures**

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 and effects, both acute and delayed

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Vapours may cause headache, fatigue, dizziness and nausea.
Ingestion	Nausea, vomiting.
Skin contact	Skin irritation. Allergic rash.
Eye contact	May cause blurred vision and serious eye damage.

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

Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptly.
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SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable extinguishing media	Extinguish with the following media: Water spray, dry powder or carbon dioxide. Larger fires: Alcohol-resistant foam. Water spray.
Unsuitable extinguishing media	Water with a full water jet.

5.2. Special hazards arising from 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.

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5.3. Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapours. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

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 Avoid or minimise the creation of any environmental contamination.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Collect spillage with granulates, sawdust, rags or other absorbent. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13. Avoid contamination of ponds or watercourses with washing down water. Absorb spillage with non-combustible, absorbent material. Do not discharge into drains or watercourses or onto the ground.

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 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 controls/Personal protection

8.1. Control parameters

Occupational exposure limits

DIETHYLENETRIAMINE

Long-term exposure limit (8-hour TWA): WEL 1 ppm(Sk) 4.3 mg/m³(Sk)

Short-term exposure limit (15-minute): WEL

WEL = Workplace Exposure Limit

Ingredient comments WEL = Workplace Exposure Limits

TRIETHYLENETETRAMINE (CAS: 112-24-3)

BAL EASYPOXY AG HARDENER**DNEL**

Consumer - Inhalation; Short term systemic effects: 1600 mg/m³
 Consumer - Inhalation; Long term systemic effects: 0.29 mg/m³
 Consumer - Dermal; Long term systemic effects: 0.25 mg/kg/day
 Consumer - Oral; Long term systemic effects: 0.41 mg/kg/day
 Consumer - Dermal; Short term systemic effects: 8 mg/kg/day
 Consumer - Oral; Short term systemic effects: 20 mg/kg/day
 Industry - Dermal; Short term systemic effects: 5380 mg/kg/day
 Industry - Inhalation; Long term systemic effects: 1 mg/m³
 Consumer - Dermal; Short term local effects: 1000 mg/cm²
 Consumer - Dermal; Long term local effects: 430 mg/cm²

DIETHYLENETRIAMINE (CAS: 111-40-0)**DNEL**

Consumer - Dermal; Short term systemic effects: 4.88 mg/kg/day
 Consumer - Inhalation; Short term systemic effects: 27.5 mg/m³
 Consumer - Dermal; Long term systemic effects: 4.88 mg/kg/day
 Consumer - Inhalation; Long term systemic effects: 4.6 mg/m³
 Industry - Dermal; Long term systemic effects: 11.4 mg/kg/day
 Industry - Inhalation; Long term systemic effects: 15.4 mg/m³
 Industry - Inhalation; Long term local effects: 0.87 mg/m³

8.2. Exposure controls**Protective equipment****Appropriate engineering controls**

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

Wear chemical splash goggles.

Hand protection

Use protective gloves. It is recommended that gloves are made of the following material: Nitrile rubber.

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. It is recommended to use respiratory equipment with combination filter, type A2/P2.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Appearance	Damp powder
Colour	Various colours.
Odour	Amine.
pH	pH (concentrated solution): 11-13
Melting point	Not applicable.
Solubility(ies)	Forms an emulsion with water.

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Explosive properties Not applicable.

9.2. Other information

Other information Not available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

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.

10.5. Incompatible materials

Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

ATE dermal (mg/kg) 9,166.67

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 11.0

Skin corrosion/irritation

Extreme pH Corrosive to skin.

Serious eye damage/irritation

Serious eye damage/irritation Corrosive to skin. Corrosivity to eyes is assumed. No testing is needed.

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. May cause sensitisation by skin contact.

Eye contact Causes burns.

Acute and chronic health hazards Irritating to skin. Symptoms following overexposure may include the following: Irritation of eyes and mucous membranes.

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Route of exposure Inhalation Skin and/or eye contact

Toxicological information on ingredients.TRIETHYLENETETRAMINEAcute toxicity - oralAcute toxicity oral (LD₅₀
mg/kg) 2,500.0

Species Rat

ATE oral (mg/kg) 2,500.0

Acute toxicity - dermalAcute toxicity dermal (LD₅₀
mg/kg) 550.0

Species Rabbit

ATE dermal (mg/kg) 1,100.0

Carcinogenicity

Carcinogenicity No evidence of carcinogenicity in animal studies.

DIETHYLENETRIAMINEAcute toxicity - oralAcute toxicity oral (LD₅₀
mg/kg) 1,620.0

Species Rat

ATE oral (mg/kg) 1,620.0

Acute toxicity - dermalAcute toxicity dermal (LD₅₀
mg/kg) 1,090.0

Species Rabbit

ATE dermal (mg/kg) 1,090.0

Acute toxicity - inhalationAcute toxicity inhalation
(LC₅₀ vapours mg/l) 0.07

Species Rat

ATE inhalation (vapours
mg/l) 0.07**SECTION 12: Ecological information**

Ecotoxicity The product contains a substance which may have hazardous effects on the environment.

12.1. ToxicityEcological information on ingredients.TRIETHYLENETETRAMINE

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Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: 330 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 1 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 2.5 mg/l, Scenedesmus subspicatus

AMINES FROM FATTY ACIDS

Acute aquatic toxicity

LE(C)₅₀	0.01 < L(E)C ₅₀ ≤ 0.1
M factor (Acute)	10
<u>Chronic aquatic toxicity</u>	
NOEC	0.001 < NOEC ≤ 0.01
Degradability	Non-rapidly degradable
M factor (Chronic)	10

DIETHYLENETRIAMINE

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hour: 430 mg/l, Leuciscus idus (Golden orfe)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hour: 16 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 96 hour: 592 mg/l, Scenedesmus subspicatus
<u>Chronic aquatic toxicity</u>	
Chronic toxicity - fish early life stage	NOEC, 28 day: >10 mg/l, Gasterosteus aculeatus (Three-spined stickleback)

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

Mobility The product has poor water-solubility.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product contains a substance classified as PBT.

Ecological information on ingredients.

TRIETHYLENETETRAMINE

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

12.6. Other adverse effects

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Other adverse effects Not known.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

General information Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. After curing, the product can be disposed of with household waste.

SECTION 14: Transport information**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

Proper shipping name (ADR/RID) AMINES, LIQUID, CORROSIVE, N.O.S. OR POLYAMINES, LIQUID, CORROSIVE, N.O.S (CONTAINS TRIETHYLENETETRAMINE, ALIPHATIC POLYAMINES)

Proper shipping name (IMDG) AMINES, LIQUID, CORROSIVE, N.O.S. OR POLYAMINES, LIQUID, CORROSIVE, N.O.S (CONTAINS TRIETHYLENETETRAMINE, ALIPHATIC POLYAMINES)

Proper shipping name (ICAO) AMINES, LIQUID, CORROSIVE, N.O.S. OR POLYAMINES, LIQUID, CORROSIVE, N.O.S (CONTAINS TRIETHYLENETETRAMINE, ALIPHATIC POLYAMINES)

Proper shipping name (ADN) AMINES, LIQUID, CORROSIVE, N.O.S. OR POLYAMINES, LIQUID, CORROSIVE, N.O.S (CONTAINS TRIETHYLENETETRAMINE, ALIPHATIC POLYAMINES)

14.3. Transport hazard class(es)

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

BAL EASYPOXY AG HARDENER**14.5. Environmental hazards**

Environmentally hazardous substance/marine pollutant

**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**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).
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	H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H330 Fatal if inhaled. H332 Harmful if inhaled. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

BAL EASYPOXY AG HARDENER

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.