



SAFETY DATA SHEET MORTEC EP DRAIN PART B

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name MORTEC EP DRAIN PART B

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

Identified uses Binder for drainage mortar.
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

01865 407 333 (24hr)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

| | |
|-------------------------------|---|
| Physical and Chemical Hazards | Not classified. |
| Human health | Acute Tox. 4 - H302; Acute Tox. 4 - H332; Skin Corr. 1B - H314; Eye Dam. 1 - H318; Skin Sens. 1 - H317; Repr. 2 - H361f |
| Environment | Aquatic Chronic 2 - H411 |

Classification (1999/45/EEC)

Xn; R22, R20. Repr. Cat. 3; R62. C; R34. Xi; R41. R43. N; R51/53.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

2.2. Label elements

Contains 2-PIPERAZIN-1-YLETHYLAMINE
AMINES, COCO ALKYL
ISOPHORONEDIAMINE
M-PHENYLENEBIS(METHYLAMINE)
TRIMETHYLHEXANE-1,6-DIAMINE

Label In Accordance With (EC) No. 1272/2008



Signal Word

Danger

Hazard Statements

| | |
|-------|--|
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H332 | Harmful if inhaled. |
| H361f | Suspected of damaging fertility. |

MORTEC EP DRAIN PART B

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|--|--------------|--|
| Supplementary Precautionary Statements | H411 | Toxic to aquatic life with long lasting effects. |
| | P201 | Obtain special instructions before use. |
| | P202 | Do not handle until all safety precautions have been read and understood. |
| | P270 | Do not eat, drink or smoke when using this product. |
| | P271 | Use only outdoors or in a well-ventilated area. |
| | 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. |
| | P281 | Use personal protective equipment as required. |
| | P260 | Do not breathe vapour/spray. |
| | P261 | Avoid breathing vapour/spray. |
| | P264 | Wash contaminated skin thoroughly after handling. |
| | P321 | Specific treatment (see medical advice on this label). |
| | P301+312 | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. |
| | P301+330+331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| | P302+352 | IF ON SKIN: Wash with plenty of soap and water. |
| | P303+361+353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| | P304+340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| | P305+351+338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| | P308+313 | IF exposed or concerned: Get medical advice/attention. |
| | P310 | Immediately call a POISON CENTER or doctor/physician. |
| | P312 | Call a POISON CENTER or doctor/physician if you feel unwell. |
| | P330 | Rinse mouth. |
| | P333+313 | If skin irritation or rash occurs: Get medical advice/attention. |
| | P363 | Wash contaminated clothing before reuse. |
| | P391 | Collect spillage. |
| | P405 | Store locked up. |
| | P501 | Dispose of contents/container to ... |

2.3. Other hazards

Not Classified as PBT/vPvB by current EU criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

| | | |
|---------------------------------------|-----------------------------|-------------------|
| 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL | | 1-5% |
| CAS-No.: 90-72-2 | | EC No.: 202-013-9 |
| Classification (EC 1272/2008) | Classification (67/548/EEC) | |
| Acute Tox. 4 - H302 | Xn;R22 | |
| Skin Irrit. 2 - H315 | Xi;R36/38 | |
| Eye Irrit. 2 - H319 | | |
| 2-PIPERAZIN-1-YLETHYLAMINE | | 1-5% |
| CAS-No.: 140-31-8 | | EC No.: 205-411-0 |
| Classification (EC 1272/2008) | Classification (67/548/EEC) | |
| Acute Tox. 4 - H302 | C;R34 | |
| Acute Tox. 4 - H312 | Xn;R21/22 | |
| Skin Corr. 1B - H314 | R43 | |
| Skin Sens. 1 - H317 | R52/53 | |
| Aquatic Chronic 3 - H412 | | |

MORTEC EP DRAIN PART B

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| 4-TERT-BUTYLPHENOL | 10-30% |
| CAS-No.: 98-54-4 | EC No.: 202-679-0 |
| Classification (EC 1272/2008) Not classified. | Classification (67/548/EEC) Xi;R36/37/38. N;R51/53. |
| AMINES, COCO ALKYL | 1-5% |
| CAS-No.: 61788-46-3 | EC No.: |
| Classification (EC 1272/2008) Acute Tox. 4 - H302 Skin Corr. 1A - H314 STOT SE 3 - H335 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410, H412 Aquatic Chronic 3 - H410, H412 | Classification (67/548/EEC) T;R48. Xn;R65,R22. C;R35. Xi;R37. N;R50/53. R52/53. |
| AMINO SILANE | < 1% |
| CAS-No.: 1760-24-3 | EC No.: |
| Classification (EC 1272/2008) Acute Tox. 4 - H332 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411 | Classification (67/548/EEC) Xn;R20. Xi;R41. N;R51/53. R43. |
| BENZYL ALCOHOL | 10-30% |
| CAS-No.: 100-51-6 | EC No.: 202-859-9 |
| Classification (EC 1272/2008) Acute Tox. 4 - H302 Acute Tox. 4 - H332 | Classification (67/548/EEC) Xn;R20/22 |
| BENZYL DIMETHYLAMINE | 1-5% |
| CAS-No.: 103-83-3 | EC No.: 203-149-1 |
| Classification (EC 1272/2008) Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Corr. 1B - H314 Aquatic Chronic 3 - H412 | Classification (67/548/EEC) R10 C;R34 Xn;R20/21/22 R52/53 |
| ISOPHORONEDIAMINE | 10-30% |
| CAS-No.: 2855-13-2 | EC No.: 220-666-8 |

MORTEC EP DRAIN PART B

| | |
|--|--|
| Classification (EC 1272/2008) Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412 | Classification (67/548/EEC) C;R34 Xn;R21/22 R43 R52/53 |
|--|--|

| | |
|-----------------------------|-------------------|
| M-PHENYLENEBIS(METHYLAMINE) | 5-10% |
| CAS-No.: 1477-55-0 | EC No.: 216-032-5 |

| | |
|---|--|
| Classification (EC 1272/2008) Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Corr. 1B - H314 Aquatic Chronic 3 - H412 | Classification (67/548/EEC) Xn;R20/22. C;R34. R52/53. |
|---|--|

| | |
|-----------------------------|-------------------|
| TRIMETHYLHEXANE-1,6-DIAMINE | 5-10% |
| CAS-No.: 25620-58-0 | EC No.: 247-134-8 |

| | |
|--|--|
| Classification (EC 1272/2008) Not classified. | Classification (67/548/EEC) Xn;R22. C;R35. R43, R52/53. |
|--|--|

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

Get medical attention immediately! Remove victim immediately from source of exposure.

Inhalation

Remove victim immediately from source of exposure. If breathing stops, provide artificial respiration. Keep the affected person warm and at rest. Get prompt medical attention.

Ingestion

DO NOT induce vomiting. Get medical attention immediately. Immediately rinse mouth and provide fresh air. Drink plenty of water.

Skin contact

Remove affected person from source of contamination. Remove contaminated clothing. Continue to rinse for at least 15 minutes and seek medical attention. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

Eye contact

Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. 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

NOTE! Effects may be delayed. Keep affected person under observation. The casualty should be transferred to hospital as soon as possible.

Inhalation

Coughing, chest tightness, feeling of chest pressure.

Ingestion

Nausea, vomiting.

Skin contact

Burning pain and severe corrosive skin damage.

Eye contact

Extreme irritation of eyes and mucous membranes, including burning and tearing.

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

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

SECTION 5: FIREFIGHTING MEASURES

MORTEC EP DRAIN PART B

5.1. Extinguishing media

Extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

None under normal conditions. In case of fire, toxic gases (CO, CO₂, NO_x) may be formed.

Unusual Fire & Explosion Hazards

Fire causes formation of toxic gases.

Specific hazards

In case of fire, toxic and corrosive gases may be formed.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Cool containers exposed to flames with water until well after the fire is out. Dike and collect extinguishing water. Keep run-off water out of sewers and water sources. Dike for water control.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

Do not allow ANY environmental contamination.

6.3. Methods and material for containment and cleaning up

DO NOT TOUCH SPILLED MATERIAL! Absorb spillage with non-combustible, absorbent material. Shovel into dry containers. Cover and move the containers. Flush the area with water. For waste disposal, see section 13.

6.4. Reference to other sections

For personal protection, see section 8.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid spilling, skin and eye contact. Do not use in confined spaces without adequate ventilation and/or respirator.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

Storage Class

Corrosive storage.

7.3. 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

8.2. Exposure controls

Protective equipment



MORTEC EP DRAIN PART B

Process conditions

Provide eyewash, quick drench.

Engineering measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided.

Hand protection

Chemical resistant gloves required for prolonged or repeated contact. Nitrile gloves are recommended. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye protection

Wear tight-fitting goggles or face shield.

Other Protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | |
|------------------|------------------------------------|
| Appearance | Liquid |
| Colour | Amber. |
| Odour | Amine. |
| Solubility | Immiscible with water |
| Flash point (°C) | >100 Sh CC (Setaflash closed cup). |

9.2. Other information

Not known.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No further information available.

10.2. Chemical stability

Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions

Not known.

10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials To Avoid

No further information available.

10.6. Hazardous decomposition products

During fire, toxic gases (CO, CO₂, NO_x) are formed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Inhalation

Vapour may irritate respiratory system or lungs.

Ingestion

Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.

MORTEC EP DRAIN PART B

Skin contact

May cause skin irritation/eczema. Risk of sensitisation or allergic reactions among sensitive individuals.

Eye contact

Causes burns.

Target Organs

No specific target organs noted

Toxicological information on ingredients.

BENZYL ALCOHOL (CAS: 100-51-6)

Acute toxicity:

Acute Toxicity (Oral LD50)

1230 mg/kg Rat

Acute Toxicity (Dermal LD50)

2000 mg/kg Rabbit

ISOPHORONEDIAMINE (CAS: 2855-13-2)

Acute toxicity:

Acute Toxicity (Oral LD50)

1030 mg/kg Rat

Acute Toxicity (Dermal LD50)

~ 2 mg/kg Rabbit

2-PIPERAZIN-1-YLETHYLAMINE (CAS: 140-31-8)

Acute toxicity:

Acute Toxicity (Oral LD50)

2140 mg/kg Rat

Acute Toxicity (Dermal LD50)

880 mg/kg Rabbit

4-TERT-BUTYLPHENOL (CAS: 98-54-4)

Acute toxicity:

Acute Toxicity (Oral LD50)

2951 mg/kg Rat

Acute Toxicity (Dermal LD50)

2288 mg/kg Rabbit

TRIMETHYLHEXANE-1,6-DIAMINE (CAS: 25620-58-0)

Acute toxicity:

Acute Toxicity (Oral LD50)

910 mg/kg Rat

M-PHENYLENEBIS(METHYLAMINE) (CAS: 1477-55-0)

Acute toxicity:

Acute Toxicity (Oral LD50)

1040 mg/kg Rat

Acute Toxicity (Inhalation LC50)

2.4 mg/l (vapours) Rat 4 hours

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

No data on possible environmental effects have been found.

12.1. Toxicity

Ecotoxicological information for this product is not available.

MORTEC EP DRAIN PART B

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

12.4. Mobility in soil

Mobility:

The product has poor water-solubility.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. After curing, the product can be disposed of with household waste.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

| | |
|----------------------|------|
| UN No. (ADR/RID/ADN) | 2735 |
| UN No. (IMDG) | 2735 |
| UN No. (ICAO) | 2735 |

14.2. UN proper shipping name

Proper Shipping Name POLYAMINES, LIQUID, CORROSIVE, N.O.S (ISOPHORONEDIAMINE, 4-TERT-BUTYLPHENOL)

14.3. Transport hazard class(es)

| | |
|---------------------|--------------------------------|
| ADR/RID/ADN Class | 8 |
| ADR/RID/ADN Class | Class 8: Corrosive substances. |
| ADR Label No. | 8 |
| IMDG Class | 8 |
| ICAO Class/Division | 8 |
| Transport Labels | |



14.4. Packing group

| | |
|---------------------------|----|
| ADR/RID/ADN Packing group | II |
| IMDG Packing group | II |
| ICAO Packing group | II |

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

MORTEC EP DRAIN PART B



14.6. Special precautions for user

| | |
|-------------------------|----------|
| EMS | F-A, S-B |
| Emergency Action Code | 2X |
| Hazard No. (ADR) | 80 |
| Tunnel Restriction Code | (E) |

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

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

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

Guidance Notes

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Comments

| | |
|----------------------|--|
| 1 | |
| Issued By | Technical Manager |
| Revision Date | 13.09.16 |
| Risk Phrases In Full | |
| R34 | Causes burns. |
| R35 | Causes severe burns. |
| R48 | Danger of serious damage to health by prolonged exposure. |
| R10 | Flammable. |
| R20/22 | Harmful by inhalation and if swallowed. |
| R20/21/22 | Harmful by inhalation, in contact with skin and if swallowed. |
| R20 | Harmful by inhalation. |
| R22 | Harmful if swallowed. |
| R21/22 | Harmful in contact with skin and if swallowed. |
| R52/53 | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R65 | Harmful: may cause lung damage if swallowed. |
| R36/38 | Irritating to eyes and skin. |
| R36/37/38 | Irritating to eyes, respiratory system and skin. |
| R37 | Irritating to respiratory system. |
| R43 | May cause sensitisation by skin contact. |
| R62 | Possible risk of impaired fertility. |
| R41 | Risk of serious damage to eyes. |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

MORTEC EP DRAIN PART B

Hazard Statements In Full

| | |
|-------|---|
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H226 | Flammable liquid and vapour. |
| H332 | Harmful if inhaled. |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H412 | Harmful to aquatic life with long lasting effects. |
| H304 | May be fatal if swallowed and enters airways. |
| H317 | May cause an allergic skin reaction. |
| H335 | May cause respiratory irritation. |
| H361f | Suspected of damaging fertility. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H400 | Very toxic to aquatic life. |

Disclaimer

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.