

Pavestone Pointfix - A superior two-part epoxy jointing compound for fast jointing of sandstone and concrete paving. Tub contains two packs (Pack A & Pack B) of resin/hardener impregnated sand, which when mixed sets to form solid matter.

PACK A (Resin)

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

1.1. Product identifier

Product name: Pavestone Pointfix – Pack A (Resin).

1.2. Material type

Epoxy resin jointing sand used for pointing paving flags.

1.3. Details of the supplier of the safety data sheet

Pavestone UK Limited,
Westington Quarry,
Chipping Campden,
Gloucestershire GL55 6EG.

Tel: +44 (0) 1386 848650
Email: enquiries@pavestone.co.uk
www.pavestone.co.uk

1.4. Emergency telephone number

+44 (0) 1386 848650
Office Hours: Monday-Friday 8.30am - 5.30pm

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation 1272/2008 (CLP)

Skin corrosion/irritant - Category 2
H315: Causes skin irritation.

Eye damage/irritant - Category 2
H319: Causes serious eye irritation.

Skin sensitisation - Category 1
H317: May cause an allergic skin reaction.

Aquatic chronic - Category 2
H411: Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard statements:

H319: Causes serious eye irritation.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H411: Toxic to aquatic life with long lasting effects.

Hazard pictograms:



Signal word:

Warning.

Precautionary statements:

Prevention. Wear protective gloves. Wear eye or face protection. Avoid release to the environment.

Response. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Disposal. Disposal of contents/container to be specified in accordance with national regulations.

2.3. Other hazards

Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annexe X111
Not Applicable.

Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annexe X111
Not Applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

EPOXY RESIN BISPHENOL TYPE A (MOL..WT.<700)

EINECS: 500-033-5

CAS: 25068-38-6

CLP Classification: Skin Corr/Irrit. 2; H315
Eye Dam/Irrit. 2; H319

Skin Sens. 1; H317

Aquatic Chronic 2, H411

Concentration: <2%

REACH REG: 01-2119456619-26

FORMALDEHYDE, POLYMER WITH (CHLOROMETHYL) OXIRANE AND PHENOL, MW<700

EINECS: 500-006-8

CAS: 9003-36-5

CLP Classification: Skin Corr/Irrit. 2; H315

Skin Sens. 1; H317

Aquatic Chronic 2, H411

Concentration: <2%

REACH REG: 01-2119454392-40

OXIRANE, MONO{(C12-C14-ALKYLOXY) METHYL} DERIVS.

EINECS: 271-846-8

CAS: 68609-97-2

CLP Classification: Skin Corr/Irrit. 2; H315

Skin Sens. 1; H317

Concentration: <1%

REACH REG: 01-2119485289

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Skin contact: Wash off immediately with plenty of water for at least 10 minutes. Wash off with soap and water. Immediately remove contaminated clothing and any extraneous chemical without delay.

Eye contact: Rinse immediately with plenty of water also under the eyelids for at least 10 minutes. Remove contact lenses. Get medical attention.

Ingestion: Wash out mouth with water. If victim has swallowed material and is still conscious give small amounts of water to drink. Stop if person feels sick. Do not induce vomiting unless directed to do so by medical personnel. Seek immediate medical attention.

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

Potential acute health effects

Skin contact: Causes skin irritation. May cause an allergic skin reaction.

Eye contact: Causes serious eye irritation.

Inhalation: No known significant effects or critical hazards.

Ingestion: Irritating to mouth, throat and stomach.

Over exposure signs/symptoms

Skin contact: Adverse symptoms may include the following. Irritation. Redness.

Eye contact: Adverse symptoms may include the following. Pain or irritation. Watering. Redness.

Inhalation: No known significant effects or critical hazards.

Ingestion: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

No specific treatment.

SECTION 5: FIREFIGHTING MEASURES

5.1. Suitable extinguishers

Use an extinguishing agent suitable for the surrounding fire.

5.2. Unsuitable extinguishers

None.

5.3. Special hazards arising from the substance

Incomplete combustion may form carbon dioxide, carbon monoxide and halogenated compounds.

5.4. Advice for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the fire. Wear appropriate protective equipment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Precautions, protective equipment and emergency procedures

Wear suitable protective clothing, gloves and eye/face protection.

6.2. Environmental precautions

Prevent contamination of soil and water. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.

6.3. Methods and material for containment and cleaning up

Transfer to a labelled, sealable container for product recovery or safe disposal. Treat residues as for small spillage.

SECTION 7: HANDLING AND STORAGE**7.1. Precautions for safe handling****Protective measures**

Wear appropriate personal protective equipment. Avoid contact with eyes, skin or clothing. Do not ingest. Keep containers closed when not in use.

Advice on general occupational hygiene

Do not eat, drink or smoke when handling this product. Wash hands after handling.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well ventilated areas. Do not store in unlabelled containers.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Controls parameters****Occupational exposure limits**

No exposure limit value known.

8.2. Exposure controls

Provide readily accessible eye wash stations and safety showers. Provide natural or explosion proof ventilation adequate to ensure concentrations are kept below explosion limits.

Personal protective equipment

Hand protection: Chemically resistant, impervious gloves should be worn at all times when handling. Butyl rubber, Nitrile rubber, neoprene gloves, impervious gloves, latex or vinyl disposable gloves.

Eye protection: Protective eye glasses or goggles must be worn.

Skin protection: Standard issue work clothes. Long sleeve shirts, trousers or overalls must be worn.

Environmental exposure controls: Construct a dike to prevent spreading.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Physical state/colour: Wet sand.

Odour: Not available.

Relative density: Not available.

Flash Poin: 150°C.

Viscosity: Not available.

pH: Not available.

SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity**

Stable under normal conditions.

10.2. Chemical stability

This product is stable.

10.3. Possibility of hazardous reactions

No specific data.

10.4. Conditions to avoid

No specific data.

10.5. Incompatible materials

No specific data.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects****Acute toxicity**

No data available on the product itself.

Components - Oral

No acutely toxic in rat and mouse studies, LD50>2000mg/kg.

Epoxy Resin Bisphenol Type A Formaldehyde, polymer with (chloromethyl) oxirane and phenol, Oxirane, mono{(C12-C14-alkyloxy) methyl} derivs.

No acutely toxic in rat and mouse studies, LD50>2000mg/kg.

LD50 >2.0grams (Female Rat) and LD50 = 26.8 grams (Male Rat)

Components - Inhalation

Due to the low vapour pressure, meaningful acute inhalation studies could not be conducted.

Epoxy Resin Bisphenol Type A Formaldehyde, polymer with (chloromethyl) oxirane and phenol, Oxirane, mono{(C12-C14-alkyloxy) methyl} derivs.

No specific data.

No mortalities were observed in rats exposed for 7 hours to the saturated vapour (150mg/m³).

Components - Dermal

No acutely toxic in rat and mouse studies, LD₅₀>2000mg/kg.

Epoxy Resin Bisphenol Type A Formaldehyde, polymer with (chloromethyl) oxirane and phenol, Oxirane, mono{(C12-C14-alkyloxy) methyl} derivs.

No specific data

11.2. Potential acute health effects

Inhalation: Irritating to mouth, throat and stomach.

Ingestion: No known significant effects or critical hazards.

Eye contact: Causes serious eye irritation.

11.3. Over exposure signs/symptoms

Inhalation: No known significant effects or critical hazards.

Ingestion: No specific data.

Skin contact: Adverse symptoms may include the following: Irritation. Redness.

Eye contact: Adverse symptoms may include the following: Pain or irritation. Watering. Redness.

11.4. Chronic toxicity or effects from long term exposures

Carcinogenicity: No known significant effects or critical hazards.

Reproductive toxicity: No known significant effects or critical hazards.

Germ cell mutagenicity: No specific data is available.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Aquatic toxicity

No data is available on the products itself.

Epoxy Resin Bisphenol Type A Formaldehyde, polymer with (chloromethyl) oxirane and phenol, Oxirane, mono{(C12-C14-alkyloxy) methyl} derivs.

Acute LC₅₀ 1.30 mg/l Fish

Acute LC₅₀ 2.54 mg/l Fish

Acute LC₅₀ 1.80 mg/l Fish – Rainbow Trout

Acute EC₅₀ 844 mg/l Aquatic Plants - Algae

12.2 Persistence and degradability

No data is available.

12.3 Bioaccumulative potential

No data is available.

12.4 Mobility in soil

No data is available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal operations: Waste to be treated as controlled waste. Dispose to licensed waste disposal site.

Disposal of packaging: Keep container labelled until cleaned and then remove or deface labels.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

3082.

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID.

14.3. Transport hazard class(es)

N.O.S. (LIQUID EPOXY RESIN, ALIPHATIC GLYCIDYL ETHER).

14.4. Packing group

Land Transport ADR/ADN

UN Number: 3082

UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID

Transport Shipping Class: 9

Packaging Group: 111

Air Transport ICAO/IATA**UN Number:** 3082**UN Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID**Transport Shipping Class:** 9**Packaging Group:** 111**Maritime Transport IMO/IMDG****UN Number:** 3082**UN Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID**Transport Shipping Class:** 9**Packaging Group:** 111**14.5. Environmental hazards****Environmentally hazardous and/or marine pollutant:** YES.**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

EU Regulation (EC) No. 1907/2006 (REACH) Annex X1V – List of substances to authorisation. Substances of very high concern.

Carcinogen: Not listed.

Mutagen: Not listed.

Toxic to reproduction: Not listed.

PBT: Not listed.

VPvB: Not listed.

SECTION 16: OTHER INFORMATION**Hazardous statements**

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.

Full Text of Classifications (CLP)

Skin Corrosion/Irritation Category 2, H315

Skin Sensitisation Category 1, H317

Eye Damage/Irritation Category 2, H319

Aquatic Chronic Category 2, H411

Skin Corrosion/Irritation - Category 2

Skin Sensitisation - Category 1

Serious Eye Damage/Eye Irritation - Category 2

Aquatic Hazard (Long lasting) - Category 2

The information is based on our current knowledge and is intended to describe the product for the purpose of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

PACK B (Hardener)

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

1.1. Product identifier

Product name: Pavestone Pointfix – Pack B (Hardener).

1.2. Material type

Paving jointing.

1.3. Details of the supplier of the safety data sheet

Pavestone UK Limited,
Westington Quarry,
Chipping Campden,
Gloucestershire GL55 6EG.

Tel: +44 (0) 1386 848650
Email: enquiries@pavestone.co.uk
www.pavestone.co.uk

1.4. Emergency telephone number

+44 (0) 1386 848650
Office Hours: Monday-Friday 8.30am - 5.30pm

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation 1272/2008 (CLP)

Acute toxicity, Oral - Category 4

H302: Harmful if swallowed.

Skin corrosion - Category 2

H315: Causes skin irritation.

Serious eye damage - Category 1

H318: Causes serious eye damage.

Skin sensitisation - Category 1

H317: May cause an allergic skin reaction.

Chronic aquatic toxicity - Category 3

H412: Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazard statements:

H302: Harmful if swallowed.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H412: Harmful to aquatic life with long lasting effects.

H318: Causes serious eye damage.

H411: Toxic to aquatic life with long lasting effects.

Hazard pictograms:



Signal word:

Warning.

Precautionary statements:

Prevention. P272: Contaminated work clothing should not be allowed out of the workplace.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response. P303+P361+P353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTRE/doctor.

Disposal. P501: Disposal of contents/container to be specified in accordance with national regulations

2.3. Other hazards

Components of the product may effect the nervous system.

Mild skin irritant.

Risk of serious damage to eyes.

Harmful if swallowed.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

BENZYL ALCOHOL

EINECS: 202-859-9

CAS: 100-51-6

CLP Classification: Acute Tox. Inha 4; H332

Acute Tox. Oral 4; H302

Concentration: <1%

REACH REG: 01-2119492630-38

METHYLENEOXIDE, POLYMER WITH BENZENEMINE, HYDROGENATED

EINECS: 603-894-6
CAS: 135108-88-2
CLP Classification: Acute Tox. Oral 4; H302
Skin Corr/Irrit 1C; H314
Skin Sens. 1; H317
STOT RE Oral 2; H373a
Aquatic Chronic 3; H412
Concentration: <2%
REACH REG: 01-2119492630-38

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice: Seek medical advice. If breathing has stopped or is laboured, give assisted respirations. Supplemental oxygen maybe indicated. If the heart has stopped trained personnel should begin cardiopulmonary resuscitation immediately.

Skin contact: Wash off immediately with plenty of water for at least 20 minutes. Wash off with soap and water. Immediately remove contaminated clothing and any extraneous chemical without delay.

Eye contact: Rinse immediately with plenty of water also under the eyelids for at least 20 minutes. Remove contact lenses.

Ingestion: Never give anything by mouth to an unconscious person. Prevent aspiration of vomit. Turn victims head to one side.

Inhalation: Remove to fresh air. If rapid recovery does not occur, obtain medical attention.

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

Symptoms

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: FIREFIGHTING MEASURES

5.1. Suitable extinguishers

Alcohol resistant foam, carbon dioxide, dry chemical, dry sand or limestone powder.

5.2. Unsuitable extinguishers

None.

5.3. Special hazards arising from the substance

Incomplete combustion may form carbon monoxide. May generate ammonia gas. May generate toxic oxide gases. Burning produces noxious and toxic fumes. Downwind personnel must be evacuated.

5.4. Advice for fire-fighters

Avoid contact with skin. Use personal protective equipment. Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Precautions, protective equipment and emergency procedures

Wear suitable protective clothing, gloves and eye/face protection. Use self contained breathing.

6.2. Environmental precautions

Prevent contamination of soil and water. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.

6.3. Methods and material for containment and cleaning up

Transfer to a labelled, sealable container for product recovery or safe disposal. Treat residues as for small spillage.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Do not use sodium nitrate or other nitrosating agents in formulations containing this product. Suspected cancer causing nitrosamines could be formed. Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Avoid contact with eyes. Use personal protective equipment. When using, do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

Do not store near acids. Keep away from alkalis. Keep containers tightly closed in a dry, cool and well ventilated place.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Controls parameters

If applicable, refer to the extended section of the MSDS (available upon request).

8.2. Exposure controls

Provide readily accessible eye wash stations and safety showers. Provide natural or explosion proof ventilation adequate to ensure concentrations are kept below explosion limits.

Personal protective equipment

Hand protection: Chemically resistant, impervious gloves should be worn at all times when handling. Butyl rubber, Nitrile rubber, neoprene gloves, impervious gloves, latex or vinyl disposable gloves.

Eye protection: Protective eye glasses or goggles must be worn.

Skin protection: Standard issue work clothes. Long sleeve shirts, trousers or overalls must be worn.

Environmental exposure controls: Construct a dike to prevent spreading.

Special instructions for protection: Discard contaminated clothing. Provide accessible eye wash stations and safety showers. Wash hands at the end of each work shift and before eating, drinking, smoking or using the toilet.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Odour: Ammoniacal.

Relative density: 2.00 g/m³.

Boiling point: >222°C.

Autoignition temperature: No data available.

Self inflammability: Product is not self-igniting

Danger of explosion: Product is not explosive

pH: Alkaline.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Refer to possibility of hazardous reactions and/or incompatible materials section.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

Amines.

Reducing agents.

Reactive materials, eg sodium calcium, zinc etc.

Materials with hydroxyl compounds.

Nitrosamines

Nitrous acid and high nitrous oxide concentrations.

Mineral acids.

Sodium Hypochlorite.

Product slowly corrodes copper, aluminium, zinc and galvanised surfaces.

Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion.

Oxidising agents.

10.6. Hazardous decomposition products

Nitric acid.

Ammonia.

Nitrogen oxides.

Carbon dioxide.

Aldehydes.

Flammable hydrocarbon fragments.

Organic acid vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Likely routes of exposure

Effects on eyes: Causes eye burns.

Effects on skin: May cause central nervous system effects such as headache, nausea, dizziness, confusion, breathing difficulties. Mild skin irritation. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Inhalation effects: May cause central nervous system effects such as headache, nausea, dizziness, confusion, breathing difficulties. Symptoms of overexposure can result in respiratory failure.

Ingestion effects: Harmful if swallowed.

Acute Toxicity

Acute Oral Toxicity: LD50: 1,200mg/kg Species: Rat.

Acute Inhalation Toxicity: No data available on the product itself.

Inhalation - Components

Benzyl Alcohol: LC50 (4 h): > 4.178 mg/l
Species: Rat - (OECD Test Guideline 403).

Acute Dermal Toxicity

No data available on the product itself.

Acute Dermal Toxicity - Components

Benzyl Alcohol: LD50: 2,000mg/kg. Species: Rabbit.

Methyleneoxide, polymer with Benzenemine, hydrogenated: LD50: 2,000mg/kg. Species: Rabbit.

Skin corrosion/irritation: Mild irritant to the skin of a rabbit.

Serious eye damage/eye irritation: Risk of serious damage to eyes.

Sensitisation: May cause sensitisation of susceptible persons by skin contact.

Chronic toxicity or effects from long term exposures

Carcinogenicity: No data is available.

Reproductive toxicity allergies: No data is available on the product itself.

Germ cell mutagenicity: No data is available on the product itself.

Specific target organ systemic toxicity (single exposure): Eyes. Central nervous system. Neurological disorders. Eye disease. Skin disorders.

Specific target organ systemic toxicity (repeated exposure): This product contains no listed carcinogens according to Directive 67/548/EEC, IARC, ACGIH and/or NTP in concentrations of 0.12 percent or greater.

Aspiration hazard: No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Aquatic toxicity

No data is available on the products itself.

Toxicity to fish - Components.

Benzyl Alcohol: LC50 (96 h): 10mg/l
Species: Bluegill Sunfish.

Toxicity to algae - Components.

Benzyl Alcohol: IC50 (72 h): 700mg/l
Species: Algae.

12.2 Persistence and degradability

No data is available.

12.3 Bioaccumulative potential

Toxicity to algae - Components.

Benzyl Alcohol: Low bioaccumulation potential.

Methyleneoxide, polymer with Benzenemine, hydrogenated: Does not bioaccumulate .

12.4 Mobility in soil

No data is available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal operations: Waste to be treated as controlled waste. Dispose to licensed waste disposal site.

Disposal of packaging: Keep container labelled until cleaned and then remove or deface labels. Drain container thoroughly and rinse well with water. Treat rinsings as for product disposal. Empty packaging should be removed by a licensed waste contractor.

SECTION 14: TRANSPORT INFORMATION

Road Transport ADR

Not dangerous goods

Air Transport IATA

Not dangerous goods

Maritime Transport IMDG

Not dangerous goods

SECTION 15: REGULATORY INFORMATION

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

Country: EU.

Regulatory List: EINECS.

Notification: Included on EINECS inventory.

SECTION 16: OTHER INFORMATION

Hazardous statements

H302: Harmful if swallowed

H315: Causes skin irritation

H317: May cause an allergic skin reaction

H412: Harmful to aquatic life with long lasting effects

Indication of Method

Acute toxicity Category 4: Harmful if swallowed

Skin corrosion Category 2: Causes skin irritation

Serious Eye Damage Category 1: Causes serious eye damage

Skin sensitisation Category 1: May cause an allergic skin reaction.

Chronic aquatic toxicity Category 3: Harmful to aquatic life with long lasting effects.

The information is based on our current knowledge and is intended to describe the product for the purpose of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.