



Bitumen Emulsions Safety Data Sheet

This data sheet has been prepared in accordance with the requirements of the chemicals (Hazards, Information and Packaging) Regulations (CHIP) and the Approved Code of Practice (ACOP).

1 Identification of the Substance / Preparation, and of the Company / Undertaking

Product Names	Bitutack, Slurrybit, Microbit, Polybond, Polbit, Fortcoat, Supercoat, CSP
Chemical Product Name	Bitumen Emulsion
Product type and main use	Bitumen emulsion for road application
Known Misuses/Abuses	None known
Company Name	BituChem Building Products Ltd
Company Address	Laymore Road, Forest Vale Industrial Estate, Cinderford, Gloucestershire, GL14 2YH
Telephone	01594 826768
Email	info@bituchem.com

2 Hazard Identification

The emulsion is classified as non hazardous for the identified use.

Health hazard	Emulsion contains emulsifiers which may cause skin or eye irritation with long or repeated contact.
Physical/chemical hazard	Storage and handling of emulsion at high temperatures (50-80°C) may cause burns.
Environmental hazards	The main effect of spillage of emulsion in water or onto soil is adsorption resulting in physical fouling.

3 Composition / Information on Ingredients

Manufactured from a combination of:

- Bitumen,
- Water
- Additives; including polymers, emulsifiers and hydrocarbon oils.

None of the ingredients are classified as hazardous.

4 First Aid Measures

Inhalation	If inhalation of mists, fumes or vapour causes irritation to the nose or throat, or coughing, remove to fresh air. If irritation persists, get medical attention.
Skin	If skin contact does occur, the product should be removed as soon as possible using suitable cleanser and washing with soap and water.
Eyes	Irrigate thoroughly with cold water and seek medical advice.
Ingestion	(Unlikely) do not induce vomiting. Do not give anything by mouth. Take the injured to hospital if serious coughing or vomiting has occurred.

5 Fire-Fighting Measures

Bitumen Emulsion will not burn under normal circumstances.

6 Accidental Release Measures

Avoid contact with skin and eyes and prevent entry into sewers, water courses or drains. Contain and absorb with sand or soil until set solid, then dispose of as in section 13.

7 Handling and Storage

Packaged products:

Handling	Hot products should be handled so that there is no risk of burns. Mechanical handling of palletised products reduces the hazards of manual lifting. Where manual lifting is unavoidable, use correct kinetic lifting techniques.
Storage	Protect from frost. Secure drums to prevent rolling.

Bulk storage products:

Handling	Hot products should be handled so that there is no risk of burns. When pumping to / from bulk containers, take proper safeguards against pressure build-up. Check hoses and connections for serviceability. Excessive pumping may damage the product.
Storage	Bulk tanks should be structurally sound and secure from accidental release. The product should never be stored at temperatures over 100°C since this will result in serious boiling over of tank contents likely to cause a serious incident.

8 Exposure Controls / Personal Protection Exposure Limit Values

There are no occupational exposure limits listed in EH40.

For hot products, wear protective clothing for normal operations: heat resistant overalls, gloves and laced safety footwear covering the ankles.

For loading and unloading operations safety: safety helmet with integrated full face visor and neck protection.

If the potential exists for splashing or when material is handled hot, use goggles, face shield or other full face protection.

Wear suitable gloves to avoid injury during drum handling and skin contact when applying.

9 Physical and Chemical Properties

Physical State	Mobile liquid at ambient temperature
Appearance	Opaque brown/black
Odour	Characteristic
Acidity/Alkalinity	Approx. 2.0pH
Boiling Point/Boiling Range	100°C (of emulsion water)
Melting Point/Melting Range	Not applicable
Flashpoint	Not applicable
Flammability	Not applicable
Auto flammability	Not applicable
Flammability	Upper: Not applicable Lower: Not applicable
Explosive Properties	Not applicable
Oxidising Properties	Not applicable
Vapour Pressure at 40°C	5 mm Hg
Density at 15°C	0.95-1.05g/ml
Solubility	- Water Solubility: Dispersible - Fat Solubility/Solvent: Not applicable
Partition Coefficient, n-octanol water	Not determined
Viscosity at 15°C	50 poise

10 Stability and Reactivity

Conditions to Avoid	To avoid freezing of emulsion water do not allow temperature to fall below 2°C
Materials to Avoid	Alkalis and Anionic emulsions

11 Toxicological Information

Decomposition Products	NON hazardous bitumen and water. The emulsion will NOT burn.
Mechanical Handling	Excessive pumping can lead to the breaking of an emulsion.

Acute Health Hazards and Advice

Exposure to bitumen emulsion is not hazardous but skin contact should be avoided. Can be irritating to eyes.

12 Ecological Information

Bitumen emulsion is not classified as harmful to the environment. There are no specific acute or chronic eco-toxicity data for the product.

13 Disposal Considerations

Classified as a non-hazardous waste and dispose of in accordance with local and national regulations. Avoid discharge to watercourses.

14 Transport Information

Regulatory information: UN number - Not regulated
Not classified as a dangerous substance for conveyance.

15 Regulatory Information

The product is not classified as dangerous.

16 Other Information

The reference set out below give further information on specific aspects.

Legislation

- Chemicals (Hazards, Information and Packaging) Regulations.
- Carriage of Dangerous Goods Labelling.
- Control of Substances Hazardous to Health Regulations.
- Environmental Protection Act.
- The Reporting of Injuries, Diseases and Dangerous Occurrences Regulations.
- The Road Traffic (Carriage of Dangerous Substances in Packages etc) Regulations.

Guidance Notes

EH26 Occupational Skin Disease: Health and Safety Precautions.
EH40 Occupational Exposure Limits.