



BM series barrier mat products

1. Identification of the substance/mixture and of the company

1.1 Product identifier

SIDERISE BM series barrier mat products (reinforced and non reinforced; black in colour).

1.2 Details of the supplier of the material safety data sheet

Siderise Group, Forge Industrial Estate, Maesteg, UK
CF34 0AY
Tel: +44 (0)1656 730833; Fax: +44 (0)1656 812509
Email: sds@siderise.com; Web: www.siderise.com

1.3 Emergency telephone number

SIDERISE office 9am to 5pm - Tel: +44 (0)1656 730833

2. Hazards identification

2.1 Classification of the substance or mixture

Under normal conditions of use the material will present no unusual hazard.

3. Composition/Information on ingredients

3.1 Composition

Thermoplastic polymer compound. Contains no regulated constituents when assessed to current EU directives.

4. First aid measures

4.1 Description of first aid measures

4.1.1 Inhalation

Not applicable at ambient temperature. In a situation where material is thermally degrading move to fresh air and consult a doctor if necessary.

4.1.2 Skin

Not applicable at ambient temperature. On contact with molten material wash abundantly with cold water. Treat affected areas as thermal burns.

4.1.3 Eye

Not applicable at ambient temperature. On contact with molten material wash immediately and abundantly with cold water. Seek medical consultation.

4.1.4 Ingestion

In the unlikely event of ingestion seek medical attention.

5. Fire fighting measures

5.1 Extinguishing media

5.1.1 Suitable extinguishing media

Use any commonly available fire extinguisher. Water sprays effective but water jets (hoses) not recommended at early stages to prevent flame propagation. It is recommended that advice is obtained from local fire authorities with respect to extinguisher type and use for various storage environments (i.e. where electrical equipment is present.)

5.1.2 Unsuitable extinguishing media

Not applicable.

5.2 Special hazards arising from the substance or mixture

As with 'all' burning organic materials the gases produced are toxic. Here they are mainly Carbon Monoxide (CO), Hydrogen Chloride (HCL) and Carbon Dioxide (CO₂). Decomposition on combustion will also produce smaller quantities of unspecified aldehydes and hydrocarbons. Material may drip flaming droplets when molten.

5.3 Advice for firefighters

Self-contained breathing apparatus should be worn.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Not applicable under ambient temperature. Avoid skin contact with hot product.

6.2 Environmental precautions

No specific hazard but we advise that the material is not released into the environment.

6.3 Methods and materials for containment and cleaning up

No special measures.

7. Handling and storage

7.1 Precautions for safe handling

Observe standard conditions of personal hygiene. Gloves are recommended for repeated handling of the material. During higher temperature processes and during conversion operations, provide ventilation of the premises to remove any vapour or dust likely to be given off.

7.2 Conditions for safe storage, including any incompatibilities

No special storage requirements. Protect the material from heat and store in cool conditions.

8. Exposure controls / personal protection

8.1 Individual protection measures, such as personal protective equipment

■ Eye protection

Not applicable at ambient temperatures. If working with hot or near molten material, wear safety glasses, goggles.

■ Skin protection

For repeated handling gloves are recommended. If working with hot or near molten material, additional protective clothing is recommended.

■ Respiratory protection

Not applicable generally but in higher temperature processes or conversion operations ventilation of the work area is required to remove any vapour or liberated dust.

■ Hand protection

For repeated handling at ambient temperatures latex or cotton gloves may be preferred. For hot material, wear thermal gloves.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) **Appearance:** Black flexible sheet.

b) **Odour:** Vinyl odour.

c) **pH (at 1000g / H₂O, 25°C):** Not applicable.

d) **Melting point:** Material will begin to soften slightly above 60°C.

e) **Initial boiling point and boiling range:** Solid material therefore not applicable.

f) **Flash point:** $\geq 200^{\circ}\text{C}$ (plasticiser component).

g) **Evaporation rate:** Solid material therefore not applicable.

h) **Flammability:** Not easily flammable but under an intense fire situation it will contribute to the overall fire.

i) **Relative density:** $\equiv 2.5 \text{ gcm}^{-3}$.

j) **Solubility(ies):** Polymer layer - insoluble in water. Soluble in Methyl ethyl ketone (M.E.K.), Tetrahydrofuran and some other polar organic solvents.

k) **Explosive properties:** Not applicable.

l) **Oxidising properties:** Not applicable.

9.2 **Other information:** No further chemical or physical properties to report.

10. Stability and reactivity

10.1 Conditions to avoid

Under normal storage conditions the material will be stable and unreactive. At elevated temperatures for a prolonged time (140°C+) thermal decomposition gases will be liberated from the polymer layer which will auto catalyse further degradation.

10.2 Materials to avoid

The material should present no special hazard in contact with other materials unless these materials themselves are very reactive.

10.3 Hazardous decomposition products

At ambient temperatures material is stable and unreactive. Under elevated temperatures up to combustion thermal decomposition will yield in the main Carbon Monoxide, Carbon Dioxide and Hydrogen Chloride in conjunction with other hydrocarbons (see 5.2).

Hydrogen Chloride gas is irritating to the mucous membranes of the nose and throat and will compel personnel to evacuate areas where it is present.

11. Toxicological information

11.1 Information on toxicological effects

To the best of our knowledge the product does not present a toxicological hazard. As a solid material exposure routes through inhalation, skin and eyes are not applicable. In the unlikely event of ingestion seek medical attention.

12. Ecological information

12.1 Persistence and degradability

Inert polymer. Not biodegradable. The product is a thermoplastic polymer compound and thus can be granulated and thermally reprocessed.

13. Disposal considerations

13.1 Waste treatment methods

Incinerate or landfill if possible to current local authority legislation.

14. Transportation

14.1 Transport information

To the best of our knowledge no special transport regulations apply to this product.

14.1 UN number

Not applicable.

14.2 UN proper shipping name

Not applicable.

14.3 Transport hazard class(es)

Not applicable.

14.4 Packing group

Not applicable.

14.5 Environmental hazards

Not applicable.

14.5 Special precautions for user

None specified.

15. Regulatory information

15.1 Safety, Health and environmental regulations / legislation specific for substance or mixture

Safety data sheet complied in accordance with 91/155/EEC and CHIP3:CHEMICAL (HAZARD INFORMATION AND PACKAGING FOR SUPPLY) REGULATIONS 2002. No mandatory labelling required.

16. Other information

16.1 Recommended uses

Noise control.

16.2 REACH

The material does not contain any 'substances of very high concern' when evaluated against current ECHA candidate list.