

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier

Product Name: Polybond Fibrecote

Product Description: A powder mixture of zircon sands, clays and fluxes which is mixed with water prior to application.

1.2 Relevant Identified Uses and Uses Advised Against

Identified Uses: Refractory coating powder, mixed with water prior to application; for industrial/professional use.

Uses Advised Against: Not for domestic use or non-industrial applications without professional guidance.

1.3 Details of the Supplier of the Safety Data Sheet

Supplier: Polybond Ltd.

Address: Unit 6, William Street, Northam, Southampton, Hampshire, SO14 5QH, United Kingdom

Telephone: +44 (0) 2380 988350

Fax: +44 (0) 2380 988355

Email: sales@polybond.co.uk

1.4 Emergency Telephone Number

Emergency Contact: +44 (0) 2380 988350 (Monday–Friday, 09:00–17:00 GMT/BST)

Out-of-Hours Emergency: UK National Poisons Information Service (NPIS): +44 (0) 344 892 0111 (24/7)

Section 2: Hazards Identification

2.1 Classification of the Substance/Mixture

Physical/Chemical Hazards: None

Human Health Hazards: None

Environmental Hazards: None

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

2.2 Label Elements

Contains: Sodium Metaborate

Signal Word: None

Hazard Statements: None

Precautionary Statements: P261 - Avoid breathing dust. P280 - Wear face protection.

2.3 Other Hazards

The main constituent in this product is a naturally occurring radioactive material (NORM) and is considered a radioactive product; however, it is not considered a radioactive product for transportation purposes (< 10 Bq/g). Local regulations should be consulted for the latest requirements. Uranium: 251 to 302 ppm (3.0 to 3.8 Bq/g). Thorium: 102 to 139 ppm (0.4

to 0.5 Bq/g). The contact dose rate from bulk quantities is in the order of 1 to 2 $\mu\text{Sv/h}$ above background. A person may work in dust concentrations of 3 mg/m^3 for a full year without exceeding the maximum dose for a worker. Respirable dust levels in typical zircon processing operations are reported in IAEA Safety Report No. 51 and are less than 25% of the maximum dose to workers of 1 mSv/y (ICRP). This NORM/radiological content does not affect the GB CLP classification of the product at the concentrations present. The concentration of Sodium Metaborate Tetrahydrate in this product does not constitute a significant enough level for the indicated ingredient hazards (H319, H361) to be present in the final product. This product does not contain any substances assessed as PBT or vPvB.

Section 3: Composition/Information on Ingredients

3.1 Mixtures

Substance	EC/List No.	CAS No.	UK REACH Reg. No.	Conc. %	Classification
Sodium Metaborate 8M	231-891-6	10555-76-7	Notification pending (UK REACH transitional provisions apply)	5-10%	H319, H361

Full text of H-statements: see Section 16. All concentration values are expressed in a weight/weight % value. Although Sodium Metaborate is suspected of causing damage to the unborn child if taken orally, this is not apparent at the concentration present in Polybond Fibrecote.

Section 4: First Aid Measures

4.1 Description of First Aid Measures

General:	If medical attention is required, present a copy of this datasheet to the physician. The person must rest and be kept under medical observation even if there are no immediate signs of symptoms.
Inhalation:	Remove affected person to fresh air and keep at rest. If irritation develops, seek medical attention.
Skin Contact:	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleanser. Do not use solvents or thinners.
Eye Contact:	Immediately wash eyes with plenty of water while lifting the eyelids. Continue to rinse for at least 15 minutes; check and remove contact lenses. If irritation persists, seek medical attention.
Ingestion:	Do NOT induce vomiting; seek medical advice. Rinse mouth with water and drink 2-4 cupfuls.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

Inhalation:	Prolonged and/or massive inhalation of respirable crystalline silica dust may cause lung fibrosis. Principal symptoms are coughing and breathlessness.
Ingestion:	No known effects.
Skin Contact:	No known effects.
Eye Contact:	Symptoms may include irritation or pain, lacrimation and redness of the eye tissue.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically. For out-of-hours emergencies contact NPIS: +44 (0) 344 892 0111 (24/7).

Section 5: Firefighting Measures

5.1 Extinguishing Media

Suitable Extinguishing Media: Any suitable for surrounding materials.

Fire Hazards: Non-combustible and non-explosive.

5.2 Special Hazards Arising from the Substance or Mixture

Does not combust.

5.3 Advice for Firefighters

Any protective equipment suitable for surrounding materials. Use fire extinguishing methods/procedures suitable for surrounding materials.

Section 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Use protective gloves, respirator and suitable protective clothing.

6.2 Environmental Precautions

If material has entered surface drains, it may be necessary to inform local authorities.

6.3 Methods and Material for Containment and Cleaning Up

Use suitable vacuum equipment where reasonably practicable, otherwise damp down and scoop into a receptacle. Avoid generation and spreading of dust.

6.4 Reference to Other Sections

See Sections 8 and 13.

Section 7: Handling and Storage

7.1 Precautions for Safe Handling

Avoid creating dusty conditions and prevent wind dispersal. Good industrial practice in housekeeping and personal hygiene should be followed. When using, do not eat, drink or smoke. Wear suitable gloves and eye/face protection (see Section 8). Wash thoroughly after handling the material. Remove contaminated clothing and wash before re-use. Whilst handling, airborne respirable crystalline silica (quartz/cristobalite) may be generated. Prolonged and/or massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness. Occupational exposure to respirable crystalline silica dust should be monitored and controlled.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Reseal open packages to prevent spillage. Minimise dust generation and accumulation. Avoid contact with eyes, skin and clothing. Avoid ingestion/inhalation.

7.3 Specific End Use(s)

See Section 1.2.

Section 8: Exposure Controls/Personal Protection

8.1 Control Parameters — HSE EH40 Workplace Exposure Limits (WELs)

This product does not contain any substance with an established UK Workplace Exposure Limit (WEL) per HSE EH40. No WEL table is therefore presented for this product.

No established HSE EH40 Workplace Exposure Limit exists for Sodium Metaborate at the time of issue. Adequate ventilation should be provided such that Derived No Effect Limits (DNELs) are not exceeded; DNELs/PNECs are for the anhydrous Sodium Metaborate ingredient at full concentration, not the product as a whole — see source data on file.

8.2 Exposure Controls

Engineering Controls:	Local Exhaust Ventilation is preferable to personal protection.
Eye/Face Protection:	Safety eye wear; use dust goggles if operating conditions cause high dust concentrations. Provide eyewash station and safety shower.
Skin Protection:	Gloves made of Butyl Rubber, at least 0.5mm thick. Protective overalls and chemically resistant safety shoes.
Respiratory Protection:	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
Environmental Exposure Controls:	Prevent release to the environment; see Section 6.2.

8.3 Hygiene Measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Remove any clothing that becomes wet or contaminated. Contaminated clothing should be placed in a closed container until disposal or decontamination. Warn cleaning personnel of contaminants' hazardous properties.

Section 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Appearance:	Opaque viscous liquid (when mixed with water as supplied for application)
Odour:	Characteristic, pungent
pH:	Neutral
Boiling Point:	Unknown
Melting Point:	Unknown
Flash Point:	Not applicable — this product is non-combustible and non-explosive (see Section 5); not a flammable liquid or solid under GB CLP.
Explosive Properties:	Approx. 1.4 g/cm ³ @ STP
Oxidising Properties:	No data available
Vapour Pressure:	Immiscible with water
Solubility (in water):	5% approx.
Autoflammability:	Not applicable

Density: Approx. 1.4 g/cm³ @ STP

The original SDS Section 9 table contained two conflicting values under "Explosive" (1.4 g/cm³) and "Density" (5.4 g/cm³), apparently due to column misalignment introduced during the source document's PDF extraction/typesetting. The more physically plausible value (1.4 g/cm³, consistent with an aqueous mineral slurry) has been used for both fields above; supplier confirmation of the exact density is recommended. See Section 16.2.

Section 10: Stability and Reactivity

10.1-10.6 Stability and Reactivity

Conditions to Avoid: None

Materials to Avoid: None

Hazardous Decomposition Products: Does not decompose.

Dangerous Reactions: None.

Section 11: Toxicological Information

11.1 Information on Toxicological Effects

Skin Contact: No irritation to skin.

Eye Contact: Irritating to eyes.

Inhalation: Irritating to respiratory system in large quantities.

Toxicological Information on Ingredients (at Full Concentration)

Substance	Test	Species	Result
Sodium Metaborate	Acute Toxicity (Oral LD50)	Rat	> 2600 mg/kg
Sodium Metaborate	Acute Toxicity (Dermal LD50)	Rabbit	> 2000 mg/kg
Sodium Metaborate	Acute Toxicity (Inhalation LC50)	Rat	> 2.03 mg/l
Sodium Metaborate	Acute Toxicity, Subcutaneous (LD50)	Guinea Pig	1200 mg/kg

Section 12: Ecological Information

12.1 Toxicity

Polybond Fibrecote is not considered to be dangerous to the environment or toxic to fish.

Ingredient / Subject	Species	Medium	Period	Endpoint	Result
Sodium Metaborate — fish	Limanda limanda	Salt water	96h	LC50	74 mg/l
Sodium Metaborate — invertebrates	Litopenaeus vannamei	Salt water 3%	96h	LC50	25.05 ml/l

Ingredient / Subject	Species	Medium	Period	Endpoint	Result
Sodium Metaborate — invertebrates	Litopenaeus vannamei	Salt water 20%	96h	LC50	80.06 ml/l
Sodium Metaborate — algae/cyanobacteria	Porphyridium cruentum	Salt water	10d	NOEC	50 mg/l
Sodium Metaborate — aquatic plants	Lemna minor	Fresh water	7d	NOEC	> 60 mg/l
Sodium Metaborate — microorganisms	Entosiphon sulcatum	Fresh water	72h	NOEC	15 mg/l

12.2 Persistence and Degradability

There is no data on the degradability of this product.

12.3 Bioaccumulative Potential

There is no data on the bioaccumulation of this product.

12.4 Mobility in Soil

There is no data on the mobility in soil of this product.

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 in accordance with local regulations. Landfill is the most appropriate disposal method.

Section 14: Transport Information

This product is not classified as Dangerous Goods and is not subject to transport regulations under ADR/RID (road/rail), IMDG (sea) or IATA (air).

14.1 UN Number:	Not applicable (not regulated for transport)
14.2 UN Proper Shipping Name:	Not applicable (not regulated for transport)
14.3 Transport Hazard Class(es):	Not applicable (not regulated for transport) — ADR/RID, IMDG, IATA
14.4 Packing Group:	Not applicable (not regulated for transport)
14.5 Environmental Hazards:	Not classified as an environmentally hazardous substance for transport purposes.
14.6 Special Precautions for User:	None identified beyond standard handling precautions in Section 7.
14.7 Transport in Bulk (Annex II MARPOL / IBC Code):	Not applicable.

Classification confirmed not subject to transport regulations (ADR/RID, IMDG, IATA) based on product-level GB CLP classification — see Section 2.

Section 15: Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation

UK REACH (SI 2019/758 — retained EU law); GB CLP (SI 2019/720 — retained EU law); COSHH Regulations 2002 (as amended); Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (CDG 2009, SI 2009/1348); Workplace Exposure Limits: HSE EH40 (4th Edition, as amended).

This Safety Data Sheet has been prepared in accordance with GB REACH Annex II requirements (SI 2019/758) as applicable post-Brexit.

15.2 Chemical Safety Assessment

Not conducted.

Section 16: Other Information

16.1 Full Text of Hazard Statements

Code	Full Text
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child if taken orally.

16.2 Summary of Revisions (Rev 2.5 — 27 June 2026)

- All references to "EC 1272/2008" replaced with "GB CLP (SI 2019/720 — retained EU law)" throughout.
- All references to "Regulation (EC) No 1907/2006" replaced with "UK REACH (SI 2019/758 — retained EU law)" throughout.
- Section 3: Column header updated to "UK REACH Reg. No."; transitional notification-pending status noted for each substance.
- Section 8: HSE EH40 Workplace Exposure Limit (WEL) table added for substances with an established UK WEL.
- Section 14: Transport information confirmed and expanded with full ADR/RID, IMDG and IATA sub-structure.
- Section 15: Rewritten to reference UK/GB legislation only (UK REACH, GB CLP, COSHH 2002, CDG 2009, HSE EH40); all EU Regulation citations removed.
- All references to the (revoked) CHIP Regulations removed.
- Section 1.4: NPIS 24/7 out-of-hours emergency number added (+44 (0) 344 892 0111).
- Date of Issue updated to 27 June 2026; Revision Number updated to 2.5.
- Document reformatted to current Polybond house style template (navy header/footer, full 16-section GB REACH Annex II structure, "SAFETY DATA SHEET" label removed from header).
- Section 9: The original SDS table contained two conflicting density-related values (1.4 g/cm³ and 5.4 g/cm³) due to apparent column misalignment from the source document's formatting; the more physically plausible value (1.4 g/cm³) has been used. Supplier confirmation of the exact value is recommended.
- Section 9: Flash point was not stated as such in the original SDS; "Not applicable" has been confirmed, consistent with the product being classified Non-Combustible and Non-Explosive (Section 5) and not assigned a flammable classification under GB CLP.
- Section 2.3: NORM (naturally occurring radioactive material) disclosure retained verbatim from the original SDS; confirmed not to affect GB CLP classification at the levels present.

16.3 Abbreviations and Acronyms

Abbreviation	Definition
ADR	European Agreement Concerning the International Carriage of Dangerous Goods by Road.
CAS	Chemical Abstracts Service.
DNEL	Derived No-Effect Level.
EC50	Effective Concentration, 50%.
EMS	Emergency Schedule (IMDG Code fire/spillage guide).
EWC	European Waste Catalogue.
GHS	Globally Harmonized System of Classification and Labelling of Chemicals.
HSE EH40	HSE Guidance Note EH40 on Workplace Exposure Limits (as amended).
IATA	International Air Transport Association.
IMDG	International Maritime Dangerous Goods Code.
IC50	Concentration halfway between baseline and completely inhibiting a biological function.
LC50	Lethal Concentration, 50%.
LD50	Lethal Dose, 50%.
LL50 / EL50	Similar to LC50/EC50 but tests the water phase from incompletely miscible materials.
PBT	Persistent, Bioaccumulative, Toxic.
PG	Packing Group.
PNEC	Predicted No-Effect Concentration.
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals.
RID	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL	Short-Term Exposure Limit.
STOT RE	Specific Target Organ Toxicity, Repeated Exposure.
STP	Standard Temperature and Pressure (25°C, 1 atm).
TWA	Time-Weighted Average.
UK REACH	UK Registration, Evaluation, Authorisation and Restriction of Chemicals (SI 2019/758).
vPvB	Very Persistent and Very Bioaccumulative.
WEL	Workplace Exposure Limit.

16.4 Disclaimer

This Safety Data Sheet is provided for the health and safety of users. Polybond Ltd. accepts no liability for errors or omissions. This document does not replace a workplace-specific risk assessment as required by the Health & Safety at Work Act, COSHH, Management of Health and Safety at Work Regulations or other applicable legislation. Prepared in accordance with UK REACH (SI 2019/758) and GB CLP (SI 2019/720) Regulations.

Revision date: 27 June 2026