

**Section 1: Identification of the Substance/Mixture and of the Company/Undertaking****1.1 Product Identifier**

**Product Name:** Thermoset Powder Coating

**Product Description:** A Polyester based Thermoset Powder Coating containing Pyromellitic acid diphenylimidazoline salt.

**1.2 Relevant Identified Uses and Uses Advised Against**

**Identified Uses:** Industrial powder coating applications for professional use.

**Uses Advised Against:** Not for domestic use. Persons with a history of respiratory problems or allergic responses should only handle under appropriate medical supervision.

**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 or Mixture**

Classification according to GB CLP (SI 2019/720 — retained EU law):

**Hazard Classification:** Acute Tox. 4 — H302; Aquatic Chronic 2 — H411 (GB CLP SI 2019/720).

**Human Health:**

This product may be harmful if swallowed.

**Physical and Chemical Hazards:**

Small particulate size may present a dust hazard. May form explosive dust-air mixtures at high concentrations.

**Environmental Hazards:**

Toxic to aquatic life with long lasting effects (at ingredient level; product level classification Aquatic Chronic 2).

**2.2 Label Elements**

**Signal Word:** Warning

**Contains:** Pyromellitic acid diphenylimidazoline salt (CAS 54553-91-2)

**Hazard Statements:**

- H302 Harmful if swallowed.
- H411 Toxic to aquatic life with long lasting effects.

**Precautionary Statements:**

- P260 Do not breathe dust.
- P264 Wash exposed skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective clothing.
- P284 Wear respiratory protection.
- P301+P310+P331 IF SWALLOWED: Immediately call a doctor. Do NOT induce vomiting.
- P391 Collect spillage.

**2.3 Other Hazards**

This product does not contain any PBT or vPvB substances as defined under UK REACH (SI 2019/758).

## Section 3: Composition / Information on Ingredients

See table below. All concentrations are expressed as weight/weight %. UK REACH registration numbers will be confirmed upon completion of GB registration under SI 2019/758. Transitional provisions apply.

| Hazardous Ingredient                       | CAS No.    | EC No.    | UK REACH Reg. No.                                             | Conc. (% w/w)        | Classification (GB CLP) |
|--------------------------------------------|------------|-----------|---------------------------------------------------------------|----------------------|-------------------------|
| Pyromellitic acid diphenylimidazoline salt | 54553-91-2 | 259-226-5 | Notification pending (UK REACH transitional provisions apply) | Notification pending | 25H.                    |

## Section 4: First-Aid Measures

### 4.1 Description of First-Aid Measures

**General:** If medical attention is required, present this SDS to the physician. Remove all contaminated clothing. The person must rest and be kept under observation.

**Inhalation:** Remove to fresh air, keep patient warm and at rest. If breathing is irregular or has stopped, administer artificial respiration. Give nothing by mouth. If unconscious place in recovery position and seek medical advice.

**Skin:** Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleanser. Do not use solvents or thinners.

**Eye:** Remove contact lenses. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart, and seek medical advice.

**Ingestion:** If accidentally swallowed wash out mouth with water, provided person is conscious. Get medical attention immediately. Keep at rest. Do not induce vomiting.

### 4.2 Most Important Symptoms and Effects (Acute and Delayed)

**Inhalation:** None. Exposure to products of thermal decomposition may present a hazard.

**Ingestion:** Sickness, loss of appetite, low blood pressure, kidney / liver damage.

**Skin:** No acute symptoms, prolonged exposure may lead to irritation if allergic.

**Eye:** May cause irritation.

### 4.3 Immediate Medical Attention

Treat symptomatically. Show this SDS to a physician. For out-of-hours emergencies contact NPIS: +44 (0) 344 892 0111 (24/7).

## Section 5: Firefighting Measures

### 5.1 Suitable Extinguishing Media:

Alcohol resistant foam, carbon dioxide, dry chemical or water spray. Do not use water jet.

### 5.2 Special Hazards:

Fire will produce a dense black smoke containing hazardous decomposition products (CO, CO<sub>2</sub> and oxides of nitrogen). Exposure to decomposition products may present a health hazard.

### 5.3 Advice for Firefighters:

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Stay upwind. Cool containers exposed to heat with water spray. Contain spread of extinguishing fluids.

## Section 6: Accidental Release Measures

**6.1 Personal Precautions, Protective Equipment and Emergency Procedures:** Avoid breathing dust. Use protective gloves, goggles, respirator and suitable protective clothing. Restrict access to authorised personnel. Stay upwind.

**6.2 Environmental Precautions:** Do not allow to enter surface water or sewer system. Spillages or uncontrolled discharges into watercourses must be immediately alerted to the Environment Agency.

**6.3 Methods and Materials for Containment and Clean Up:** Ventilate well. Remove ignition sources. Collect spillages with an electrically protected vacuum cleaner or by wet brushing and place in a closed container for disposal in accordance with local

regulations. Do not use a dry brush as dust clouds or static may be created.

**6.4 Reference to Other Sections:** See Sections 8 and 13.

## Section 7: Handling and Storage

**7.1 Precautions for Safe Handling:** Persons with a history of respiratory problems or allergic responses should only be exposed to, or handle, this product under appropriate medical supervision. Precautions should be taken to prevent the formation of dusts in concentrations above flammable, explosive or occupational Exposure Limit Values. Electrical equipment and lighting should be protected to appropriate standards. Keep container tightly closed. Avoid the inhalation of dusts. Smoking, eating and drinking should be prohibited in areas of storage and use. The product may charge electrostatically. Use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing and floors should be electrically conductive. Good housekeeping standards and regular safe removal of waste materials will minimise the risks of spontaneous combustion and other fire hazards.

**7.2 Conditions for Safe Storage, Including Any Incompatibilities:** Store between 5 and 25°C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorised access. Containers that are opened should be properly resealed and kept upright to prevent leakage. Observe the principles contained in the HSE guidance note Storage of Packaged Dangerous Substances.

**7.3 Specific End Use(s):** Industrial coatings / powder coating application for professional use. See product technical datasheet for application guidance.

## Section 8: Exposure Controls / Personal Protection

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

| Substance                                  | CAS No.    | TWA (mg/m <sup>3</sup> ) | STEL (mg/m <sup>3</sup> ) | Notes                                                   |
|--------------------------------------------|------------|--------------------------|---------------------------|---------------------------------------------------------|
| Total Inhalable Dust                       | -          | 10                       | -                         | EH40 nuisance dust (8h TWA)                             |
| Respirable Dust                            | -          | 4                        | -                         | EH40 nuisance dust (8h TWA)                             |
| Pyromellitic acid diphenylimidazoline salt | 54553-91-2 | See DNELs in source-     |                           | No specific WEL listed in EH40; use dust limits + DNELs |

WEL values from HSE EH40 (as amended). DNELs where listed are for individual ingredients at full concentration, not as present in the product.

### 8.2 Exposure Controls

Adequate ventilation should be provided such that WELs per HSE EH40 are not exceeded. Local Exhaust Ventilation is preferable to personal protective equipment. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of dusts below the relevant occupational exposure limit, suitable respiratory protective equipment should be worn.

**Respiratory Protection:** Air-fed respiratory protective equipment (to EN 149) should be worn when this product is sprayed if the exposure of the sprayer or other people nearby cannot be controlled to below the occupational Exposure Limit Values.

**Hand Protection:** When skin exposure may occur, advice should be sought from glove suppliers on appropriate types and usage times. Hand protection should conform with EN 388. Barrier creams may help but are not substitutes for full physical protection.

**Eye Protection:** Eye protection (to EN 166/170) designed to protect against exposure to dusts should be worn when there is a likelihood of exposure.

**Skin Protection:** Cotton or cotton/synthetic overalls or coveralls compliant with EN 340 are normally suitable. Care should be taken to avoid inflammation and irritation of the skin at the neck and wrists through contact with the powder. Regular skin inspection of users is recommended.

### 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 wet or contaminated. Remove wet or contaminated clothing promptly and place 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

| Property                  | Value                                                                        |
|---------------------------|------------------------------------------------------------------------------|
| Appearance                | Fine powder                                                                  |
| Odour                     | Odourless                                                                    |
| pH                        | Not applicable                                                               |
| Flash Point               | Not applicable (solid powder product)                                        |
| Relative Density          | 1.2 – 1.9 g/cm <sup>3</sup> @ STP                                            |
| Solubility(ies)           | Insoluble in water                                                           |
| Auto-ignition Temperature | 400 °C (minimum ignition temperature)                                        |
| Explosive Properties      | Dust explosion possible; min. explosive concentration 20-70 g/m <sup>3</sup> |
| Oxidising Properties      | Not oxidising                                                                |

## Section 10: Stability and Reactivity

**10.1 Reactivity:** None identified under normal storage and use conditions.

**10.2 Chemical Stability:** Stable under normal recommended storage conditions.

**10.3 Possibility of Hazardous Reactions:** None known under normal conditions. The product may charge electrostatically.

**10.4 Conditions to Avoid:** Avoid formation of dust clouds. Keep away from heat, sparks, open flame and other ignition sources. Avoid contact with strong oxidising agents.

**10.5 Incompatible Materials:** None identified under normal conditions.

**10.6 Hazardous Decomposition Products:** Does not decompose under normal conditions. During fire: CO, CO<sub>2</sub> and oxides of nitrogen may be formed.

## Section 11: Toxicological Information

### 11.1 Information on Toxicological Effects

**General:** Harmful if swallowed. Prolonged or repeated contact may cause irritation which may lead to dermatitis or skin cracking. May cause irritation to eyes and respiratory tract.

### Toxicological information on ingredients:

Acute Toxicity (Oral LD50): 980 mg/kg (Rat) for Pyromellitic acid diphenylimidazoline salt.

## Section 12: Ecological Information

**12.1 Toxicity:** MSDS 5 powders are not classified as hazardous to the environment at product level, but may be toxic to the aquatic environment. LC50 (fish) >100 mg/l; EC50 (invertebrates) 37 mg/l; EC50 (algae) 2.3 mg/l.

**12.2 Persistence and Degradability:** No data available for this product.

**12.3 Bioaccumulative Potential:** No data available for this product.

**12.4 Mobility in Soil:** No data available for this product.

**12.5 PBT and vPvB Assessment:** This product does not contain any PBT or vPvB substances as defined under UK REACH (SI 2019/758).

**12.6 Other Adverse Effects:** None identified.

### Ecological information on ingredients:

Pyromellitic acid diphenylimidazoline salt: Freshwater LC50 (96h) >100 mg/l (Brachydanio rerio); EC50 (48h) 37 mg/l (Daphnia magna); EC50 (72h) 2.3 mg/l (Desmodesmus subspicatus).

## Section 13: Disposal Considerations

**13.1 Waste Treatment Methods:** Chemical Waste. Contact specialist disposal companies. Dispose of waste and residues in accordance with local authority requirements. Absorb in vermiculite or dry sand and dispose of at a licensed hazardous waste

collection point.

## Section 14: Transport Information

This product is **not subject to transport regulations** (ADR/RID, IMDG, IATA).

| Mode    | UN No. | Proper Shipping Name | Hazard Class | Packing Group | EMS / Notes            |
|---------|--------|----------------------|--------------|---------------|------------------------|
| ADR/RID | -      | Not regulated        | -            | -             | Not subject to ADR/RID |
| IMDG    | -      | Not regulated        | -            | -             | Not subject to IMDG    |
| IATA    | -      | Not regulated        | -            | -             | Not subject to IATA    |

## Section 15: Regulatory Information

### 15.1 Safety, Health and Environmental Regulations/Legislation

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

- UK REACH (SI 2019/758 — retained EU law) — Registration, Evaluation, Authorisation and Restriction of Chemicals
- GB CLP (SI 2019/720 — retained EU law) — Classification, Labelling and Packaging of Substances and Mixtures
- COSHH Regulations 2002 (as amended) — Control of Substances Hazardous to Health
- CDG 2009 (SI 2009/1348) — The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009
- HSE EH40 (as amended) — Workplace Exposure Limits
- Health and Safety at Work etc. Act 1974

### 15.2 Chemical Safety Assessment

Not conducted for this product.

## Section 16: Other Information

### 16.1 Full Text of Hazard Statements

H302 Harmful if swallowed.

H411 Toxic to aquatic life with long lasting effects.

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

- Converted from old EC 1272/2008 format to full GB CLP (SI 2019/720) and UK REACH (SI 2019/758) compliance.
- Rebranded to current Polybond Ltd house style with navy header, extracted logo, product title and date/rev line.
- Section 1.4: Added NPIS 24/7 out-of-hours emergency number.
- Section 3: Updated column to 'UK REACH Reg. No.' with transitional note for the hazardous ingredient.
- Section 8: Added HSE EH40 WEL table (dust + note on specific ingredient DNELs).
- Section 9: Flash point stated 'Not applicable (solid)'; retained ignition/explosive data.
- Section 14: Full ADR/RID/IMDG/IATA table confirming not regulated.
- Section 15: Rewritten for UK/GB legislation only; removed EU references and CHIP.
- Section 16: Added Summary of Revisions, updated abbreviations and disclaimer.
- Date/Rev set to 27 June 2026 / 2.5. Full 16-section structure implemented.

### 16.3 Abbreviations and Acronyms

| Abbreviation | Definition                                                                                               |
|--------------|----------------------------------------------------------------------------------------------------------|
| ADR          | European Agreement Concerning the International Carriage of Dangerous Goods by Road.                     |
| CAS          | Chemical Abstracts Service.                                                                              |
| CDG 2009     | Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009/1348). |

| Abbreviation | Definition                                                                             |
|--------------|----------------------------------------------------------------------------------------|
| COSHH        | Control of Substances Hazardous to Health Regulations 2002 (as amended).               |
| DNEL         | Derived No-Effect Level.                                                               |
| EC50         | Effective Concentration, 50%.                                                          |
| GB CLP       | Great Britain Classification, Labelling and Packaging (SI 2019/720 — retained EU law). |
| 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.                                           |
| LC50         | Lethal Concentration, 50%.                                                             |
| LD50         | Lethal Dose, 50%.                                                                      |
| PBT          | Persistent, Bioaccumulative, Toxic.                                                    |
| PNEC         | Predicted No-Effect Concentration.                                                     |
| 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