

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 1-o-tolylbiguanide.

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: Skin Sens. 1 — H317 (GB CLP SI 2019/720).

Human Health:

This product may cause an allergic skin reaction if handled regularly.

Physical and Chemical Hazards:

None identified at product level. Small particulate size may present a dust hazard.

Environmental Hazards:

Not classified as hazardous to the environment at product level. In large quantities may be toxic to aquatic life.

2.2 Label Elements

Signal Word: Warning

Contains: 1-o-tolylbiguanide (CAS 93-96-6)

Hazard Statements:

- H317 May cause an allergic skin reaction.

Precautionary Statements:

- P260 Do not breathe dust.
- 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.

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)
1-o-tolylbiguanide	93-96-6	202-268-6	Notification pending (UK REACH transitional provisions apply)	Notification pending...	

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 affected person to fresh air and keep at rest. If breathing is irregular or has stopped, administer artificial respiration. Seek medical attention if symptoms persist.

Skin: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use a recognised skin cleanser. Do NOT use solvents or thinners. Seek medical attention if irritation or allergic reaction occurs.

Eye: May cause irritation. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Seek medical attention.

Ingestion: Do NOT induce vomiting. If swallowed, seek medical advice immediately and show this SDS to the physician. Keep person warm and at rest.

4.2 Most Important Symptoms and Effects (Acute and Delayed)

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

Ingestion: Unknown.

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, CO₂ and oxides of nitrogen).

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 ³)	STEL (mg/m ³)	Notes
Total Inhalable Dust	-	10	-	EH40 nuisance dust (8h TWA)
Respirable Dust	-	4	-	EH40 nuisance dust (8h TWA)
1-o-tolylbiguanide	93-96-6	See DNELs	-	No specific WEL in EH40; use dust limits

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

Property	Value
Odour	Odourless
pH	Not applicable
Flash Point	Not applicable (solid powder product)
Relative Density	1.3 – 1.5 g/cm ³ @ 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 ³
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, CO₂ and oxides of nitrogen may be formed.

Section 11: Toxicological Information

11.1 Information on Toxicological Effects

General: There is no data available on the product itself. The mixture is not classified as dangerous according to GB CLP except for skin sensitisation. Powder Coating powders can cause localised skin irritation in folds of the skin or in contact with tight clothing. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat. Repeated inhalation of dust can produce varying degrees of respiratory irritation or lung damage.

Skin Contact: May cause an allergic skin reaction (H317).

Toxicological information on ingredients:

Acute Toxicity (Oral LD50): 2390 mg/kg (Rat) for 1-o-tolylbiguanide. Dermal LD50 >3100 mg/kg bw (Rat).

Section 12: Ecological Information

12.1 Toxicity: MSDS 7 powders are not classified as hazardous to the environment at product level, but in large quantities may be toxic to the aquatic environment. LC50 (fish) 150 mg/l; EC50 (invertebrates) 15 mg/l; EC50 (algae) 32 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:

1-o-tolylbiguanide: LC50 (96h) 150 mg/l (Oncorhynchus mykiss); EC50 (48h) 15 mg/l (Daphnia magna); EC50 (72h) 32 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

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage (ingredient-level).

H412 Harmful to aquatic life with long lasting effects (ingredient-level).

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 sensitiser ingredient.
- Section 8: Added HSE EH40 WEL table (dust limits + note on specific ingredient).
- 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.

Abbreviation	Definition
CDG 2009	Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009/1348).
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