SAFETY DATA SHEET

Polybond Syn Oxide

Date of Issue: 27 June 2026 Revision Number: 2.5

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

1.1 Product Identifier

- Product Name: Polybond Syn Oxide
- Product Description: A synthetic rust-inhibiting, anti-corrosive oxide paint for metal.

1.2 Relevant Identified Uses and Uses Advised Against

- Identified Uses: Anti-corrosive oxide paint for metal substrates.
- Uses Advised Against: Not for domestic use or non-industrial applications.

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 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 Class	Category	H-Code
Flammable liquids	3	H226
Aspiration hazard	1	H304
STOT — Single Exposure	3	H336
STOT — Repeated Exposure	2	H373
Hazardous to aquatic environment — Chronic	3	H412

2.2 Label Elements

- Signal word: Danger
- Hazard pictograms: GHS02, GHS07, GHS08, GHS09

Hazard statements:

- EUH066 Repeated exposure may cause skin dryness or cracking.
- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P260 Do not breathe fumes/gas/mist/vapours/spray.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- P280 Wear protective clothing/eye protection/face protection.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTRE/doctor.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P314 Get medical advice/attention if you feel unwell.
- P331 Do NOT induce vomiting.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local regulations.

Contains: Hydrocarbons C9-C11 n-alkanes/isoalkanes/cyclics <2% aromatics; Hydrocarbons C9-C12 n-alkanes/isoalkanes/cyclics aromatics (2-25%); Cyclohexanone Oxime

2.3 Other Hazards

- This product may be harmful in contact with skin or if inhaled. Vapours are flammable. Harmful to aquatic life with long lasting effects.

Section 3: Composition/Information on Ingredients

3.2 Mixtures – Hazardous Ingredients

Chemical Name	CAS No.	EC No.	UK REACH Reg. No.	Conc. (% w/w)	Classification (GB CLP)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-48-9	919-857-5	Notification pending (UK REACH transitional provisions apply)	20–30	H226, H304, H336
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	64742-82-1	919-446-0	Notification pending (UK REACH transitional provisions apply)	10–20	H226, H304, H336
Cyclohexanone Oxime	100-64-1	202-874-0	Notification pending (UK REACH transitional provisions apply)	0.5–1	H372, H411

Note: UK REACH registration numbers will be confirmed upon completion of GB registration under SI 2019/758. Transitional provisions apply.

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. Define a first aid plan of action prior to working with this product.
- **Inhalation:** Move the exposed person to fresh air. Seek medical attention.
- **Skin contact:** Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation persists.
- **Eye contact:** Rinse immediately with plenty of water for at least 15 minutes holding the eyelids open. Seek medical attention if irritation persists.
- **Ingestion:** Do not induce vomiting. If conscious, wash mouth with water. SEEK MEDICAL ATTENTION IMMEDIATELY.
- **Note for physicians:** Potential for chemical pneumonitis. Consider gastric lavage with protected airway and activated charcoal. Potential for cardiac sensitisation. Consider oxygen therapy.

4.2 Most Important Symptoms and Effects

- **Inhalation:** May cause nausea, vomiting, dizziness and headache.
- **Skin contact:** May cause irritation and dermatitis.
- **Eye contact:** May cause irritation.
- **Ingestion:** Harmful if swallowed. May cause nausea, vomiting. May cause damage to the central nervous system.

4.3 Immediate Medical Attention

- Treat symptomatically. Show this SDS to a physician.

Section 5: Firefighting Measures

5.1 Extinguishing Media

- Suitable: Carbon dioxide, dry chemical, foam. For large fires — foam.
- Unsuitable: Water jets.

5.2 Special Hazards

- Burning produces irritating, toxic and noxious fumes. Vapour is heavier than air and will spread along the ground.

5.3 Advice for Firefighters

- Stay upwind. Evacuate personnel away from fumes. Wear self-contained breathing apparatus and full protective clothing. Cool containers exposed to heat with water spray. Contain spread of extinguishing fluids.

Section 6: Accidental Release Measures

6.1 Personal Precautions

- Ensure adequate ventilation. Eliminate all sources of ignition. Wear suitable PPE: gloves, goggles, respirator and protective clothing. Restrict access to authorised personnel. Stay upwind. Take precautionary measures against static discharge.

6.2 Environmental Precautions

- Do not allow products to enter drains, ditches or rivers. Notify authorities if any exposure to the general public or environment occurs or is likely to occur. Prevent further spillage if safe.

6.3 Methods and Material for Containment and Cleaning Up

- Absorb with inert, non-flammable absorbent material (not sawdust). Transfer to suitable, labelled containers for disposal. For large spills (>300 litres) use vacuum truck. For small spills (<300 litres) transfer by mechanical means to sealable containers. Clean spillage area thoroughly.

6.4 Reference to Other Sections

- See Sections 8 and 13.

Section 7: Handling and Storage

7.1 Precautions for Safe Handling

- Avoid contact with eyes and skin. Ensure adequate ventilation. Use explosion-proof equipment. Keep away from sources of ignition — no smoking. When using do not eat, drink or smoke. Wear suitable gloves and eye/face protection. Wash thoroughly after handling. Remove contaminated clothing and wash before re-use.

7.2 Conditions for Safe Storage

- Keep in a cool, dry, well-ventilated area. Keep containers tightly closed. Keep away from oxidising substances.

7.3 Specific End Use(s)

- Anti-corrosive oxide paint for metal substrates.

Section 8: Exposure Controls/Personal Protection

8.1 Control Parameters

Workplace Exposure Limits (WELs) — HSE EH40 (GB):

Substance	TWA (ppm)	TWA (mg/m³)	STEL (ppm)	STEL (mg/m³)
White Spirit (C9-C12 hydrocarbons)	—	300 (inhalable)	—	—

DNELs (Hydrocarbons C9-C12, n-alkanes, isoalkanes, cyclics, aromatics 2-25%):

Endpoint	Workers (Systemic)	General Population
Inhalation (mg/m³) — Chronic	840	—
Dermal (mg/kg bw/day) — Chronic	180	—

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.
- PPE: Chemical-resistant gloves (PVC or equivalent), tightly fitting safety goggles, protective clothing with elasticated cuffs, chemical respirator (type B filter for inorganic vapours, EN141).
- Provide eyewash station and safety shower.
- Hygiene: Wash hands at end of each work shift and before eating, smoking and using the toilet. Remove wet or contaminated clothing promptly. Place contaminated clothing in closed container until disposal or decontamination.

Section 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

- **Appearance:** Liquid
- **Odour:** Characteristic
- **Colour:** Various
- **Flash point:** 40°C (closed cup)
- **Solubility:** Immiscible in water
- **pH:** Not applicable

9.2 Other Information

- No additional data available.

Section 10: Stability and Reactivity

- **10.1 Reactivity:** Flammable liquid and vapour.
- **10.2 Chemical Stability:** Stable under normal conditions.
- **10.3 Possibility of Hazardous Reactions:** None known under normal conditions.
- **10.4 Conditions to Avoid:** Heat, sparks and open flames.
- **10.5 Incompatible Materials:** Oxidising agents.
- **10.6 Hazardous Decomposition Products:** Does not decompose under normal conditions. In fire may produce oxides of carbon.

Section 11: Toxicological Information

11.1 Information on Toxicological Effects

- **Skin:** May cause irritation. Prolonged contact may lead to dermatitis.
- **Eyes:** May cause irritation.
- **Inhalation:** May cause nausea, vomiting, dizziness and headache.
- **Ingestion:** May cause fatal poisoning.

Toxicological data (Hydrocarbons C9-C12, n-alkanes, isoalkanes, cyclics, aromatics 2-25%):

Endpoint	Result
Acute Oral LD50	>1500 mg/kg (Rat)
Acute Dermal LD50	>3400 mg/kg (Rabbit)
Acute Inhalation LC50	>13,100 mg/l (Rat)

11.2 Other Hazards

- None known.

Section 12: Ecological Information

12.1 Toxicity

- Syn Oxide is harmful to aquatic life with long lasting effects.

Ingredient / Species	Medium	Period	Test	Result
Hydrocarbons C9-C12 — Oncorhynchus mykiss	Fresh water	96h	LL50	10–30 mg/l
Hydrocarbons C9-C12 — Daphnia magna	Fresh water	48h	EL50	10–22 mg/l
Hydrocarbons C9-C11 — Oncorhynchus mykiss	Fresh water	96h	LL50	>1000 mg/l
Cyclohexanone oxime — Pimephales promelas	Fresh water	96h	LC50	208 mg/l
Cyclohexanone oxime — Daphnia magna	Fresh water	48h	EC50	22 mg/l

- **12.2 Persistence and Degradability:** No data available on the degradability of this product.
- **12.3 Bioaccumulative Potential:** No data available on the bioaccumulation of this product.
- **12.4 Mobility in Soil:** No data available.
- **12.5 PBT and vPvB Assessment:** This product does not contain any PBT or vPvB substances.
- **12.6 Endocrine Disrupting Properties:** None known.
- **12.7 Other Adverse Effects:** None.

Section 13: Disposal Considerations

13.1 Waste Treatment Methods

- Hazardous waste (EWC Code: 08 01 11*). Use an approved waste disposal contractor. Dispose of in accordance with applicable waste regulations. Disposal of waste into soil, drains, rivers or water bodies is prohibited.

Section 14: Transport Information

Parameter	ADR/RID (Road/Rail)	IMDG (Sea)	IATA (Air)
UN Number	1263	1263	1263
Proper Shipping Name	PAINT-RELATED MATERIALS	PAINT-RELATED MATERIALS	PAINT-RELATED MATERIALS
Hazard Class	3	3	3
Packing Group	III	III	III
EMS / Special Precautions	EMS F-E, S-E; Hazard ID 33; Tunnel Code (D/E)	EMS F-E, S-E	—

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; Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (CDG 2009).
- Workplace Exposure Limits: HSE EH40 (4th Edition, as amended).
- This SDS 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

- EUH066 Repeated exposure may cause skin dryness or cracking.
- H226 Flammable liquid and vapour.
- H228 Flammable solid.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.

- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

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

- Section 2.1: Classification updated to GB CLP (SI 2019/720). 'EC 1272/2008' reference removed.
- Sections 2.1 & 15.1: References updated from EC Regulations to GB retained law (SI 2019/720; SI 2019/758).
- Section 3: Column header updated to 'UK REACH Reg. No.'; transitional provisions noted.
- Section 8: WELs updated to reference HSE EH40 (GB) with TWA/STEL values where applicable.
- Section 14: IATA air transport information added.
- Section 15: Updated to GB/UK legislative references throughout.
- Date updated to 27 June 2026; Revision Number updated to 2.5.

16.3 Abbreviations

- 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%.
- EWC: European Waste Catalogue.
- GHS: Globally Harmonized System.
- IC50: Concentration that is halfway between a baseline and completely inhibiting a biological function.
- IATA: International Air Transport Association.
- IMDG: International Maritime Dangerous Goods Code.
- LC50: Lethal Concentration, 50%.
- LD50: Lethal Dose, 50%.
- LL50: Similar to LC50 but tests the water phase from incompletely miscible materials.
- EL50: Similar to EC50 but tests the water phase from incompletely miscible materials.
- NOEC: No Observed Effect Concentration.
- PBT: Persistent, Bioaccumulative, Toxic.
- PNEC: Predicted No-Effect Concentration.
- REACH: Registration, Evaluation, Authorisation, and Restriction of Chemicals.
- STEL: Short-Term Exposure Limit.
- STOT RE: Specific Target Organ Toxicity, Repeated Exposure.
- STOT SE: Specific Target Organ Toxicity, Single Exposure.
- STP: Standard Temperature and Pressure (25°C, 1 atm).
- TWA: Time-Weighted Average.
- vPvB: Very Persistent and Very Bioaccumulative.
- WEL: Workplace Exposure Limit.

Revision date: 27 June 2026

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. Prepared in accordance with UK REACH (SI 2019/758) and GB CLP (SI 2019/720) Regulations.