POLYBOND

SAFETY DATA SHEET

Mordant T Wash

Date of Issue: 27 June 2026 Revision Number: 2.5

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier

Product Name: **Polybond Mordant T Wash**

Version: 2.5 | Date of Issue: 27 June 2026

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use: Pre-treatment to improve adhesion to galvanised iron or steel surfaces prior to painting or coating.

Uses advised against: Not for domestic use. Avoid contact with skin, eyes and clothing. Do not ingest.

1.3 Details of the supplier of the safety data sheet

Polybond Ltd, Unit 6, William Street, Northam, Southampton, Hampshire, SO14 5QH, United Kingdom

Tel: 02380 988350 | Email: sales@polybond.co.uk | Web: www.polybond.co.uk

1.4 Emergency telephone number

Polybond Ltd office hours: 02380 988350

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

Members of the public should contact NHS 111 / 999 in an emergency.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to GB CLP Regulation (SI 2019/720):

Flam. Liq. 3 — H226 | Eye Irrit. 2 — H319 | STOT SE 3 — H336 | Skin Corr. 1B — H314 (from Phosphoric Acid) | Aquatic Acute 1 — H400, Aquatic Chronic 1 — H410 (from Copper Carbonate)

2.2 Label elements

Signal Word: WARNING (Corrosive components present — handle with care)

Hazard Statements:

H226 Flammable liquid and vapour.
H314 Causes severe skin burns and eye damage.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.
H410 Very toxic 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.
P233 Keep container tightly closed.
P260 Do not breathe mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a doctor.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances — Not applicable. This is a mixture.

3.2 Mixtures

Hazardous Ingredient	CAS No.	EC No.	UK REACH Reg. No.	% w/w	Classification (GB CLP)
Phosphoric Acid	7664-38-2	231-633-2	Notification pending (transitional)	≤10%	H290, H314
Copper Carbonate	1184-64-1	214-671-4	Notification pending (transitional)	≤1%	H301, H400, H410
Isopropanol	67-63-0	200-661-7	Notification pending (transitional)	10-15%	H225, H319, H336
Acetone	67-64-1	200-662-2	Notification pending (transitional)	10-15%	H225, H319, H336

Note: All concentration values are expressed as weight/weight %. The Full Text for all Hazard Statements is displayed in Section 16. UK REACH transitional provisions apply — full registration pending. Phosphoric Acid is corrosive; Copper Carbonate is environmentally hazardous.

4. FIRST AID MEASURES

4.1 Description of first aid measures

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

Skin contact: Remove contaminated clothing immediately. Wash skin thoroughly with plenty of water. If irritation persists or chemical burns appear, seek medical attention immediately.

Eye contact: Immediately wash eyes with plenty of water while lifting the eyelids. Continue to rinse for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention immediately.

Ingestion: Do NOT induce vomiting. Rinse mouth thoroughly with water. Give small sips of water if conscious. Seek medical attention immediately and show this SDS to the physician.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: May cause drowsiness, dizziness or irritation to the respiratory tract.

Skin contact: Causes severe skin burns. Redness, pain, blistering.

Eye contact: Causes serious eye irritation and possible corneal damage.

Ingestion: Harmful if swallowed. May cause burns to mouth, throat and stomach.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable: Alcohol-resistant foam, carbon dioxide, dry chemical, water spray.

Unsuitable: Do not use water jet as it may spread fire.

5.2 Special hazards arising from the substance or mixture

Flammable liquid and vapour. In a fire or if heated, a pressure increase may burst containers. During fire, toxic gases (oxides of carbon, phosphorus compounds) may be formed.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use protective gloves (butyl rubber), goggles, respirator and suitable protective clothing. Avoid contact with skin and eyes. Restrict access to authorised personnel. Eliminate ignition sources. Stay upwind.

6.2 Environmental precautions

Do not allow to enter surface water, sewer system or soil. Very toxic to aquatic life. Dike for water control if necessary. Inform local authorities if large spill occurs.

6.3 Methods and material for containment and cleaning up

Ventilate well. Stop flow if possible. Absorb in vermiculite, dry sand or earth and place in suitable containers. Dispose of in accordance with local legislation. Do not flush with water.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid creating mist or vapour. Good industrial practice in housekeeping and personal hygiene should be followed. When using do not eat, drink or smoke. Wear suitable gloves, eye/face protection and protective clothing. Wash thoroughly after handling. Emergency eye wash stations and safety showers must be available.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area. Keep containers tightly closed. Keep away from oxidising agents, alkalis and ignition sources. Protect from freezing. Reseal open packages to prevent spillage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Adequate ventilation should be provided such that Derived No Effect Limits are not exceeded. Local Exhaust Ventilation is preferable.

Workplace Exposure Limits (HSE EH40)

Substance	CAS No.	TWA (8h)	STEL (15min)	Notes
Isopropanol	67-63-0	999 mg/m³ (400 ppm)	1250 mg/m³ (500 ppm)	EH40 WEL
Acetone	67-64-1	1210 mg/m³ (500 ppm)	3620 mg/m³ (1500 ppm)	EH40 WEL
Phosphoric Acid (mist)	7664-38-2	1 mg/m³	2 mg/m³	EH40 WEL

8.2 Exposure controls

Respiratory protection: Chemical respirator with organic vapour cartridge if ventilation is inadequate.

Hand protection: Butyl rubber or neoprene gloves, minimum 0.5mm thickness. Breakthrough time >480 min.

Eye protection: Chemical goggles or face shield (mandatory due to corrosive components).

Skin protection: Protective overalls, chemically resistant apron and safety shoes.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Blue/green liquid
Odour	Characteristic, alcoholic
pH	Acidic (approx. 1-2)

Flash Point	Approx. 12-20°C (closed cup) — flammable
Boiling Point	Approx. 56-82°C (mixture)
Density	approx. 0.95-1.05 g/cm³ @ STP
Solubility(ies)	Miscible with water
Explosive Properties	Vapours may form explosive mixtures with air
Oxidising Properties	Not oxidising

10. STABILITY AND REACTIVITY

10.1 Reactivity — Reacts with alkalis (exothermic). Corrosive to many metals.

10.2 Chemical stability — Stable under normal conditions of storage and use.

10.3 Possibility of hazardous reactions — Reacts violently with strong alkalis. May produce flammable hydrogen gas with some metals.

10.4 Conditions to avoid — Heat, flames, sparks and other ignition sources. Freezing.

10.5 Incompatible materials — Strong alkalis, oxidising agents, reactive metals.

10.6 Hazardous decomposition products — Does not decompose under normal conditions. When heated or burned, produces oxides of carbon and phosphorus compounds.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity: Harmful if swallowed. Contains components toxic if swallowed (Copper Carbonate).

Skin corrosion/irritation: Causes severe skin burns (H314 from Phosphoric Acid).

Serious eye damage/irritation: Causes serious eye irritation and possible permanent damage.

Respiratory or skin sensitisation: Not classified as a sensitiser at product level.

STOT-single exposure: May cause drowsiness or dizziness (H336 from Isopropanol/Acetone).

Aspiration hazard: Not classified as aspiration hazard at product level.

12. ECOLOGICAL INFORMATION

12.1 Toxicity — Very toxic to aquatic life with long lasting effects (H410 from Copper Carbonate).

12.2 Persistence and degradability — Limited data available for the mixture.

12.3 Bioaccumulative potential — Copper compounds may bioaccumulate.

12.4 Mobility in soil — Miscible with water; high mobility expected.

12.5 Results of 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 — Very toxic to aquatic organisms. Do not allow to enter drains or watercourses.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Hazardous waste. Following pre-treatment and observing the regulations for hazardous wastes, it must be taken to a permitted hazardous waste landfill or hazardous waste incinerator. Contaminated packaging must be disposed of as

hazardous waste. Do not allow into drains, watercourses or soil. Contact specialist disposal companies for advice. EWC Code typically 08 01 11 or 16 03 05*.

14. TRANSPORT INFORMATION

14.1 UN number: UN1993 (Flammable liquid, n.o.s.) or UN3264 (Corrosive liquid, acidic, inorganic, n.o.s.) — transport classification should be confirmed by supplier based on exact formulation and packaging.

14.2 UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (contains Isopropanol, Acetone) or CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (contains Phosphoric Acid)

14.3 Transport hazard class(es): Class 3 (Flammable) and/or Class 8 (Corrosive)

14.4 Packing group: II or III

14.5 Environmental hazards: Marine pollutant — contains Copper Carbonate (very toxic to aquatic life).

14.6 Special precautions for user: Keep away from ignition sources. Transport in accordance with CDG 2009. Corrosive — protect packaging from damage.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable.

Transport classification applies to the product as supplied. Re-classification may be required for certain formulations or pack sizes. Always check current transport regulations before shipping.

15. REGULATORY INFORMATION

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

UK REACH Regulation (SI 2019/758) — Registration, Evaluation, Authorisation and Restriction of Chemicals.

GB CLP Regulation (SI 2019/720) — Classification, Labelling and Packaging of substances and mixtures.

Control of Substances Hazardous to Health Regulations 2002 (COSHH) (as amended).

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

Workplace Exposure Limits (HSE EH40/2005, Fourth Edition 2020).

Control of Major Accident Hazards Regulations 2015 (COMAH) — may apply depending on quantities stored (flammable + environmentally hazardous components).

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

16. OTHER INFORMATION

16.1 Full text of H-statements referred to under Sections 2 and 3

H225 Highly flammable liquid and vapour. | H226 Flammable liquid and vapour. | H290 May be corrosive to metals. | H301 Toxic if swallowed. | H314 Causes severe skin burns and eye damage. | H319 Causes serious eye irritation. | H336 May cause drowsiness or dizziness. | H400 Very toxic to aquatic life. | H410 Very toxic to aquatic life with long lasting effects.

16.2 Abbreviations and acronyms

GB CLP = Great Britain Classification, Labelling and Packaging Regulation (SI 2019/720). UK REACH = United Kingdom Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (SI 2019/758). WEL = Workplace Exposure Limit (HSE EH40). PBT = Persistent, Bioaccumulative and Toxic. vPvB = very Persistent and very Bioaccumulative. NPIS = National Poisons Information Service. EWC = European Waste Catalogue. COMAH = Control of Major Accident Hazards.

16.3 Summary of Revisions (Version 2.5 — 27 June 2026)

- Converted from old EC 1272/2008 format (September 2015) to full GB CLP (SI 2019/720) and UK REACH (SI 2019/758) compliance.
- Applied 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: Added 'UK REACH Reg. No.' column with transitional note for all ingredients.
• Section 8: Added HSE EH40 WEL table for Isopropanol, Acetone and Phosphoric Acid mist.
• Section 9: Flash point stated approx. 12-20°C; pH noted as acidic.
• Section 14: Expanded to full multi-modal transport table with note on dual flammable/corrosive classification and marine pollutant status.
• Section 15: Written exclusively for UK/GB legislation only; removed all EU references and CHIP. Added COMAH note.
• Section 16: Added Summary of Revisions, updated abbreviations and disclaimer.
• Date/Rev set to 27 June 2026 / 2.5. Full 16-section GB REACH Annex II structure implemented.

The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. Users should conduct their own risk assessment and ensure compliance with all applicable regulations. Phosphoric Acid is corrosive — handle with extreme care. Copper Carbonate component makes this product very toxic to aquatic life — prevent release to the environment.