



SAFETY DATA SHEET

Polyfloor

Date of Issue: 09 June 2025

Revision Number: 4.0

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

1.1 Product Identifier

- **Product Name:** Polyfloor
- **Product Description:** A high performance, general purpose Polyfloor Polyurethane.
- **Other Identifiers:** Not applicable

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

- **Identified Uses:** A high performance, general purpose Polyfloor Polyurethane for sealing and coating hard floors.
- **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

UK CLP (Regulation (EC) No 1272/2008):

- **Physical and Chemical Hazards:**
 - Flammable Liquid, Category 3 (H226)
 - **Human Health:**
 - Acute Toxicity, Category 4 (H312)
 - Aspiration Hazard, Category 1 (H304)
 - Serious Eye Damage, Category 1 (H318)
 - Carcinogenicity, Category 2 (H351)
 - Specific Target Organ Toxicity (Repeated Exposure), Category 1 (H372)
 - **Environment:**
 - Not classified as hazardous to the environment.
- Note:** Full text of hazard statements is provided in Section 16.

Human Health Effects:

- May be harmful in contact with skin (H312).
- May be fatal if swallowed and enters airways (H304).
- Causes serious eye damage (H318).
- Suspected of causing cancer due to a very small proportion of a substance (H351).
- Causes damage to the central nervous system through prolonged or repeated exposure (H372).
- May cause drowsiness or dizziness as a symptom of exposure.

Physical and Chemical Hazards:

- Flammable liquid and vapour (H226) due to White Spirit and Xylene content.

Environmental Effects:

- Not classified as environmentally hazardous; low concentration of White Spirit (<1.5%) minimizes aquatic toxicity risk.

2.2 Label Elements

Labels in Accordance with UK CLP:

- **Contains:** White Spirit, Methyl Ethyl Ketoxime, Calcium Isononanoate
- **Signal Word:** DANGER
- **Hazard Statements:**
 - H226: Flammable liquid and vapour.
 - H304: May be fatal if swallowed and enters airways.
 - H312: Harmful in contact with skin.
 - H318: Causes serious eye damage.

- H351: Suspected of causing cancer.
- H372: Causes damage to central nervous system through prolonged or repeated exposure.



Precautionary Statements:

- P210: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
- P233: Keep container tightly closed.
- P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
- P273: Avoid release to the environment.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310: IF SWALLOWED: Immediately call a doctor.
- P331: Do NOT induce vomiting.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P501: Dispose of contents/container in accordance with local regulations.

2.3 Other Hazards

- This product does not contain PBT or vPvB substances as per UK REACH.
 - No known endocrine-disrupting properties.
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3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredient	EC/List No.	CAS No.	%	GHS Symbols	CLP Hazard Statements	Signal Word
White Spirit*	919-446-0	64742-88-7	<1.5 %	GHS02, GHS07, GHS08, GHS09	H226, H304, H336, H372, H411	Danger
White Spirit**	265-185-4	64742-82-1	<40%	GHS08	H304, H350, H340, H372	Danger
Methyl Ethyl Ketoxime	202-496-6	96-29-7	0.4%	GHS05, GHS07, GHS08	H312, H317, H318, H351	Danger
Calcium Isononanoate	258-901-1	53988-05-9	0.4%	GHS07	H302, H319	Warning
Xylene	215-535-7	1330-20-7	<1%	GHS02, GHS07	H226, H312, H315, H332	Warning

- Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
** Naphtha (petroleum), hydrodesulphurized heavy
- Note on Carcinogenicity Classification:** The mixture is classified as Carcinogenicity Category 2 (H351, suspected of causing cancer) rather than Category 1B (H350) because the carcinogenic component (aromatic hydrocarbons) in White Spirit** constitutes less than 0.1% of the mixture, as determined by supplier data and UK CLP Annex I, Section 3.6.2. The mutagenicity hazard (H340) is similarly not applied to the mixture due to the low concentration of relevant components (<0.1%), per UK CLP guidelines
- Note:** Full text of hazard statements is provided in Section 16. Concentrations are weight/weight %.

4. FIRST AID MEASURES

- General:** Present this SDS to the physician if medical attention is required. Remove contaminated clothing. Keep the person at rest and under medical observation, even if no immediate symptoms appear. Define a first-aid plan prior to use, consulting an occupational physician.

- **Inhalation:** Remove to fresh air and keep at rest. If breathing is irregular or stopped, administer artificial respiration. Seek medical attention.
 - **Skin Contact:** Remove contaminated clothing. Wash skin thoroughly with soap and water or a proprietary skin cleanser. Do not use solvents or thinners. Seek medical attention if irritation persists.
 - **Eye Contact:** Immediately rinse eyes with plenty of water for at least 10 minutes while lifting eyelids. Seek medical attention.
 - **Ingestion:** Do NOT induce vomiting. Seek medical advice immediately and show the container or label. Keep person warm and at rest.
 - **Common Symptoms:**
 - **Inhalation:** May cause drowsiness and dizziness.
 - **Ingestion:** Aspiration hazard; may cause chemical pneumonitis if entering lungs.
 - **Skin Contact:** Prolonged contact may cause irritation, redness, dry skin, or dermatitis.
 - **Eye Contact:** Irritation, pain, lacrimation, redness.
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5. FIRE-FIGHTING MEASURES

- **Fire Hazards:** Flammable liquid; vapour is heavier than air and may spread along the ground. Containers may burst if heated.
 - **Extinguishing Media:** Use carbon dioxide, dry chemical, powder, or water fog. Do not use water jets.
 - **Combustion Products:** Produces oxides of carbon during fire.
 - **Protective Equipment:** Wear self-contained breathing apparatus and full protective clothing.
 - **Environmental Precautions:** Prevent runoff from entering sewers or water sources. Dike for water control.
 - **Procedures:** Stay upwind, evacuate, use suitable extinguishers. Move containers from fire area if safe. Withdraw immediately if venting safety devices emit rising sounds or tanks discolor. Use water spray to control vapours. Notify authorities if water pollution risk occurs.
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6. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Wear protective gloves, goggles, respirator, and suitable clothing. Avoid skin/eye contact. Restrict access to authorized personnel. Stay upwind.
- **Environmental Precautions:** Prevent entry into surface water or sewer systems.

- **Cleanup Methods:** Ventilate area, stop flow if possible. Absorb with vermiculite, dry sand, or earth and place in containers. Dispose of per local regulations.

7. HANDLING AND STORAGE

- **Handling:** Follow good industrial hygiene practices. Do not eat, drink, or smoke during use. Wear gloves and eye/face protection (see Section 8). Use suitable equipment, wash after use. Wash thoroughly after handling. Remove and wash contaminated clothing before reuse. Avoid contact with eyes, skin, and clothing. Provide emergency eyewash stations and showers.
- **Storage:** Store in a dry, ventilated area. Reseal packages to prevent spillage. Keep containers tightly closed, away from oxidising substances.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- **Exposure Limits (HSE EH40/2005):**

Ingredient	WEL (TWA, 8hr)	WEL (STEL, 15min)	Notes
White Spirit*	350 mg/m ³	-	Estimated (based on similar hydrocarbons)
White Spirit**	350 mg/m ³	-	Estimated (based on naphtha)
Xylene	50 ppm (220 mg/m ³)	100 ppm (441 mg/m ³)	Sk (skin absorption risk)
Methyl Ethyl Ketoxime	-	-	No WEL established
Calcium Isononanoate	-	-	No WEL established

- **Note:** WELs for White Spirit are estimated based on similar hydrocarbons (e.g., per EH40 guidance). Specific WELs may vary; consult supplier data.
- **DNEL (Derived No-Effect Level):**

Ingredient	Workers (Systemic)	General Population (Systemic)
White Spirit*	Inhalation: 330 mg/m ³ (chronic)	Inhalation: 71 mg/m ³ (chronic), Dermal: 26 mg/kg bw/day (acute)

White Spirit**	Inhalation: 1300 mg/m ³ (acute)	-
Methyl Ethyl Ketoxime	Inhalation: 9 mg/m ³ (chronic), Dermal: 1.3 mg/kg bw/day (chronic)	Inhalation: 2.7 mg/m ³ (chronic), Oral: 2 mg/kg bw/day (chronic)
Calcium Isononanoate	Inhalation: 15.7 mg/m ³ (chronic)	Inhalation: 2.7 mg/m ³ (chronic), Oral: 1.11 mg/kg bw/day (chronic)
Xylene	Inhalation: 77 mg/m ³ (chronic), 289 mg/m ³ (acute)	Inhalation: 14.8 mg/m ³ (chronic), Oral: 1.6 mg/kg bw/day (chronic)

- **PNEC (Predicted No-Effect Concentration):**

Ingredient	Freshwater	Marine Water	Intermittent Release	STP	Sediment (Freshwater)	Sediment (Marine)	Soil
Methyl Ethyl Ketoxime	0.256 mg/l	-	0.118 mg/l	177 mg/l	-	-	-
Calcium Isononanoate	0.068 mg/l	0.0068 mg/l	1.36 mg/l	23 mg/l	0.904 mg/kg	0.0904 mg/kg	0.141 mg/kg
Xylene	0.327 mg/l	0.327 mg/l	0.327 mg/l	6.58 mg/l	12.46 mg/kg	12.46 mg/kg	2.31 mg/kg

- **Engineering Controls:** Provide adequate ventilation to ensure exposure limits are not exceeded. Local exhaust ventilation is preferred.
- **Personal Protective Equipment (PPE):**
 - Gloves: Butyl rubber, ≥0.5 mm thick.
 - Eye/Face Protection: Chemical-resistant goggles.
 - Respiratory Protection: Chemical respirator for organic vapours.
 - Other: Chemically resistant safety shoes, protective overalls.
 - Provide eyewash stations and safety showers.
- **Hygiene Measures:** Wash hands after each shift and before eating, smoking, or using the toilet. Remove wet/contaminated clothing and store in a closed container until disposal or decontamination. Warn cleaning personnel of hazardous properties.

9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** Opaque viscous liquid
- **Odour:** Characteristic, pungent
- **Vapour Density:** <7 mmHg @ STP

- **Density:** Approx. 1.2 g/cm³ @ STP
 - **Solubility:** Immiscible with water
 - **Boiling Point:** >150°C (estimated based on White Spirit components)
 - **Melting Point:** Not applicable (liquid at ambient temperature)
 - **Flash Point:** 38–60°C (estimated based on White Spirit and Xylene)
 - **VOC (Volatile Organic Compounds):** <40% w/w (based on White Spirit content)
Note: Boiling point and flash point are estimated based on ingredient properties. Exact values should be determined by testing; unavailability is justified due to mixture complexity.
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10. STABILITY AND REACTIVITY

- **Conditions/Materials to Avoid:** Strong oxidising agents.
 - **Hazardous Decomposition Products:** Produces oxides of carbon when heated.
 - **Stability:** Stable under normal conditions; does not decompose.
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11. TOXICOLOGICAL INFORMATION

- **General:** Prolonged exposure may cause central nervous system damage.
- **Skin Contact:** Prolonged/repeated contact may cause irritation, dermatitis.
- **Eye Contact:** Causes irritation, pain, lacrimation, redness.
- **Inhalation:** May cause respiratory irritation, coughing, drowsiness, dizziness.
- **Ingestion:** May cause nausea, vomiting; aspiration hazard may lead to chemical pneumonitis or kidney failure.
- **Toxicological Data (Ingredients at Full Concentration):**

Ingredient	Oral LD50 (Rat)	Dermal LD50	Inhalation LC50
White Spirit*	>15,000 mg/kg	>4 ml/kg (Rat)	>13.1 mg/l (Rat)
White Spirit**	>5,000 mg/kg	>2,000 mg/kg (Rabbit)	>5,610 mg/m ³ (Rat)
Methyl Ethyl Ketoxime	>900 mg/kg	>1,000 mg/kg (Rabbit)	>4.83 mg/l (Rabbit)
Calcium Isononanoate	>10,000 mg/kg	>2,000 mg/kg (Rat)	>3 mg/l (Rat)

12. ECOLOGICAL INFORMATION

- **General:** Not classified as dangerous to the environment or toxic to fish.
- **Acute Toxicity (Ingredients at Full Concentration):**

Ingredient	Species	Medium	Period	Test	Result
White Spirit*	Rainbow Trout	Freshwater	96h	LL50	2.5 mg/l
White Spirit**	Pimephales promelas	Freshwater	96h	LL50	8.2 mg/l
Methyl Ethyl Ketoxime	Japanese Rice Fish	Freshwater	96h	LC50	>100 mg/l
Calcium Isononanoate	Rainbow Trout	Freshwater	96h	LC50	122 mg/l
Xylene	Rainbow Trout	Freshwater	96h	LC50	2.6 mg/l

- **Persistence and Degradability:** No specific data on the mixture. White Spirit and Xylene are inherently biodegradable; Methyl Ethyl Ketoxime and Calcium Isononanoate have limited data but are not expected to persist significantly.
- **Bioaccumulative Potential:** No specific data on the mixture. White Spirit and Xylene have low bioaccumulation potential (log Kow <3); no data for other ingredients.
- **Mobility in Soil:** No specific data on the mixture. Immiscible with water, likely to adsorb to soil due to hydrocarbon content.
- **PBT/vPvB Assessment:** Does not contain PBT or vPvB substances.
Note: Lack of specific data is justified due to the mixture's low environmental risk and reliance on ingredient data per REACH Annex II.

13. DISPOSAL CONSIDERATIONS

- **General:** Hazardous waste. Contact licensed disposal companies. Absorb spills in vermiculite or dry sand and dispose at a licensed hazardous waste collection point. Comply with local authority requirements.
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14. TRANSPORT INFORMATION

- **General:** Not regulated for transport (per ADR, IMDG, RID).
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15. REGULATORY INFORMATION

- **Statutory Instruments:**
 - Control of Substances Hazardous to Health Regulations 2002 (as amended).
 - The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No 1348).
 - **Approved Code of Practice:** Safety Data Sheets for Substances and Preparations; Classification and Labelling of Substances and Preparations Dangerous for Supply.
 - **Guidance Notes:** HSE EH40/2005 Workplace Exposure Limits.
 - **EU Legislation (Retained in UK Law):**
 - Regulation (EC) No 1907/2006 (UK REACH).
 - Regulation (EC) No 1272/2008 (UK CLP).
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16. OTHER INFORMATION

- **Hazard Statements in Full:**
 - H226: Flammable liquid and vapour.
 - H302: Harmful if swallowed.
 - H304: May be fatal if swallowed and enters airways.
 - H312: Harmful in contact with skin.
 - H315: Causes skin irritation.
 - H317: May cause an allergic skin reaction.
 - H318: Causes serious eye damage.
 - H319: Causes serious eye irritation.
 - H332: Harmful if inhaled.
 - H336: May cause drowsiness or dizziness.
 - H340: May cause genetic defects.
 - H350: May cause cancer.
 - H351: Suspected of causing cancer.

- H372: Causes damage to the central nervous system through prolonged or repeated exposure.
- H411: Toxic to aquatic life with long-lasting effects.
- **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%.
 - EL50/LL50: Effective/Lethal Loading, 50%.
 - GHS: Globally Harmonized System.
 - LC50: Lethal Concentration, 50%.
 - LD50: Lethal Dose, 50%.
 - PBT: Persistent, Bioaccumulative, Toxic.
 - PNEC: Predicted No-Effect Concentration.
 - STP: Standard Temperature and Pressure (25°C, 1 atm).
 - vPvB: Very Persistent and Very Bioaccumulative.
 - WEL: Workplace Exposure Limit.
- **Example Label:**
Polyfloor Polyurethane
 Contains: White Spirit, Methyl Ethyl Ketoxime, Calcium Isononanoate
DANGER
 - Flammable liquid and vapour.
 - May be fatal if swallowed and enters airways.
 - Harmful in contact with skin.
 - Causes serious eye damage.
 - Suspected of causing cancer.
 - Causes damage to central nervous system through prolonged or repeated exposure.
 - Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
 - Keep container tightly closed.
 - Avoid breathing dust/fume/gas/mist/vapours/spray.
 - Avoid release to the environment.
 - Wear protective gloves/protective clothing/eye protection/face protection.
 - IF SWALLOWED: Immediately call a doctor. Do NOT induce vomiting.
 - Dispose of contents/container in accordance with local regulations.

Batch Number: 0123456
Volume: 5 Litres
Supplier: Polybond Ltd., Unit 6 William Street, Northam, Southampton, Hampshire SO14 5QH
 Telephone: 02380988350 | Fax: 02380988355 | Email: sales@polybond.co.uk
- **Note:** This SDS does not constitute a workplace risk assessment as required by COSHH or the Health & Safety at Work Act. Users must conduct their own risk assessments.

