POLYBOND

SAFETY DATA SHEET

PB11 Hand Gel Sanitiser

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 form: Mixture (gel)

Product Name: **Polybond PB11 Hand Gel Sanitiser** (Alcohol Free Hand Gel Sanitiser)

Product code: PB11

Version: 2.5 | Date of Issue: 27 June 2026

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

Main use category: Professional and consumer use

Identified uses: Biocidal product (PC8). Hand sanitiser for human hygiene, effective against bacteria and enveloped viruses (e.g. Beta-Coronavirus, surrogate for SARS-CoV-2, per BS EN 14476:2013 + A2:2019).

Uses advised against: Not for use on surfaces or medical equipment. Not for use on open wounds or broken skin.

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 (Monday–Friday, 09:00–17:00 BST)

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, quoting product name and presenting this SDS if applicable.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

This product is not classified as hazardous due to low concentrations of active substances (<1%), verified by dilution calculations per UK CLP bridging principles.

2.2 Label elements

No hazard pictogram or signal word required.

Precautionary Statements:

P102 Keep out of reach of children.

P264 Wash hands thoroughly after handling.

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

Contains no PBT and/or vPvB substances ≥0.1% assessed in accordance with UK REACH Annex XIII. No endocrine-disrupting properties identified.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances — Not applicable. This is a mixture (gel).

3.2 Mixtures

Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides	CAS: 63449-41-2 EC: 264-151-6 Index: 612-140-00-5 (Notification pending for GB)	<1%	Acute Tox. 4 (Oral) H302 Acute Tox. 4 (Dermal) H312 Skin Corr. 1A H314 Aquatic Acute 1 H400

Note: The mixture is not classified as hazardous due to low concentrations of active substances. Full text of H-statements is given in Section 16. UK REACH transitional provisions apply. Suppliers should confirm UK REACH registration for substances if manufactured/imported in Great Britain at ≥1 tonne/year and UK BPR approval for biocidal active substances.

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: Remove person to fresh air and keep comfortable for breathing. Seek medical advice if irritation persists.

Skin contact: Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.

Eye contact: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion: Rinse mouth with water. Do not induce vomiting. Call a poison center or doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: No symptoms expected under normal use.

Skin contact: Mild irritation may occur with prolonged contact.

Eye contact: Irritation and redness.

Ingestion: Throat irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Show this SDS to a physician.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable: Water spray, dry powder, foam, carbon dioxide. Use media suitable for surrounding fire.

Unsuitable: None known.

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire: Toxic fumes (e.g. carbon oxides, nitrogen oxides) may be released.

5.3 Advice for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Ventilate spillage area. Avoid contact with eyes. Wear appropriate PPE (see section 8). Turn leaking containers leak-side up to prevent liquid escape.

For emergency responders: Use personal protective equipment as specified in section 8.

6.2 Environmental precautions

Do not discharge into drains or rivers. Contain spillage using bunding.

6.3 Methods and material for containment and cleaning up

Absorb spilled liquid with dry earth or sand. Transfer to a closable, labelled container for disposal by an appropriate method. Dispose of residues at an authorized site.

6.4 Reference to other sections

See sections 8 and 13 for further information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Ensure good ventilation of the work station. Avoid contact with eyes. Follow label instructions for biocidal use. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, well-ventilated place. Keep container tightly closed. Keep away from heat sources.

7.3 Specific end use(s)

Biocidal product for hand sanitisation. Follow label instructions for safe use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

No occupational exposure limits established for ingredients under HSE EH40. No DNEL/PNEC data available for the mixture.

8.2 Exposure controls

Appropriate engineering controls: Ensure good ventilation of the work station. Provide impermeable flooring in storage areas.

Eye/face protection: Safety glasses recommended if eye contact is likely. Ensure eye bath is available.

Hand protection: Not required for normal use. Protective gloves (e.g. nitrile) for prolonged or repeated exposure.

Skin protection: Not required for normal use.

Respiratory protection: Not required under normal conditions.

Environmental exposure controls: Avoid release to the environment.

Hygiene measures: Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Physical state	Liquid (gel)
Colour	Colourless
Odour	Characteristic (odourless to slight)
pH	6–8
Melting / Freezing point	No data available
Boiling point	~100°C (water-based gel)
Flash point	Not applicable (alcohol-free)

Flammability	Not flammable
Relative density	1.00–1.01
Solubility	Soluble in water
Viscosity, kinematic	~2000 cP
Viscosity, dynamic	Viscous
Explosive properties	Not explosive
Oxidising properties	Not oxidising

10. STABILITY AND REACTIVITY

10.1 Reactivity — The product is non-reactive under normal conditions of use, storage and transport.

10.2 Chemical stability — Stable under normal conditions.

10.3 Possibility of hazardous reactions — No dangerous reactions known under normal conditions of use. Decomposition may occur on exposure to incompatible materials.

10.4 Conditions to avoid — Avoid heat.

10.5 Incompatible materials — Strong acids, strong oxidising agents.

10.6 Hazardous decomposition products — In combustion, emits toxic fumes (e.g. carbon oxides, nitrogen oxides).

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity (oral/dermal/inhalation): Not classified for the mixture.

Skin corrosion/irritation: Not classified (low QAC concentrations, pH 6–8).

Serious eye damage/irritation: Not classified (low QAC concentrations).

Respiratory or skin sensitisation: Not classified.

Germ cell mutagenicity / Carcinogenicity / Reproductive toxicity: Not classified.

STOT-single exposure / STOT-repeated exposure: Not classified.

Aspiration hazard: Not classified.

Component data (Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides, CAS 63449-41-2):

LD50 oral rat: ~500 mg/kg | LD50 dermal: ~2000 mg/kg

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Ecology – general: Low concentrations of active substances minimize environmental impact.

Hazardous to the aquatic environment, short-term (acute): Not classified.

Hazardous to the aquatic environment, long-term (chronic): Not classified.

Component data (Quaternary ammonium compounds, CAS 63449-41-2):

LC50 – Fish [96h]: 0.85 mg/L

12.2 Persistence and degradability — Biodegradable (supplier to confirm).

12.3 Bioaccumulative potential — No bioaccumulation potential.

12.4 Mobility in soil — Readily absorbed into soil.

12.5 Results of PBT and vPvB assessment — This product is not identified as a PBT/vPvB substance under UK REACH (SI 2019/758).

12.6 Other adverse effects — Negligible ecotoxicity (supplier to confirm). Avoid release to the environment.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of contents/container at a licensed waste disposal site in accordance with local Waste Disposal Authority requirements. Do not allow into drains or watercourses.

14. TRANSPORT INFORMATION

In accordance with ADR / IMDG / IATA / ADN / RID:

	ADR	IMDG	IATA	ADN	RID
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3 Transport hazard class(es)	Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4 Packing group	Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5 Environmental hazards	Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

14.6 Special precautions for user — Not applicable.

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

This product is not subject to transport regulations under ADR, IMDG, IATA, ADN or RID.

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.

UK Biocidal Products Regulation (UK BPR) — Regulation (EU) 528/2012 as retained in UK law. This product is a biocidal product (Product Type PC8). Suppliers must confirm that active substances (e.g. QACs) are approved and the product is authorised under UK BPR.

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) — not applicable (product not regulated for transport).

Workplace Exposure Limits (HSE EH40/2005, Fourth Edition 2020) — no specific WEL for mixture components.

Contains no substances listed on: UK REACH Annex XVII (Restriction Conditions); UK REACH Annex XIV (Authorisation List); UK REACH Candidate List (SVHC); UK Prior Informed Consent (PIC) Regulation; POP Regulation; Ozone Regulation; Explosives Precursors Regulation; Drug Precursors Regulation.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for the mixture. Suppliers should ensure substances are registered under UK REACH where applicable and that the product is correctly authorised under UK BPR.

16. OTHER INFORMATION

16.1 Full text of H- and EUH-statements

H302 Harmful if swallowed. | H312 Harmful in contact with skin. | H314 Causes severe skin burns and eye damage. | H400 Very toxic to aquatic life.

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). UK BPR = UK Biocidal Products Regulation. 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. QAC = Quaternary Ammonium Compound. DNEL = Derived No-Effect Level. PNEC = Predicted No-Effect Concentration.

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

• Converted from Serenity Chemicals Ltd source SDS (Rev 4.0, 09 June 2025) to full Polybond house style and UK compliance.
• Rebranded supplier details to Polybond Ltd (Unit 6, William Street, Northam, Southampton, SO14 5QH).
• Product code changed from SH11 to PB11.
• Applied current Polybond Ltd house style: navy header with extracted logo, product title, steel-blue date/rev line, navy section bars, mid-blue tables, professional footer.
• Section 1.4: Added NPIS 24/7 out-of-hours emergency number (+44 (0) 344 892 0111).
• Section 2: Confirmed non-hazardous classification (low active substance concentration <1%) with precautionary statements P102, P264, P305+P351+P338, P501.
• Section 3: Updated to include UK REACH Reg. No. / transitional note column.
• Section 9: Physical form recorded as gel (liquid); viscosity ~2000 cP retained.
• Section 14: Confirmed “not subject to transport regulations” for ADR/IMDG/IATA/ADN/RID.
• Section 15: Rewritten exclusively for UK/GB legislation (UK REACH SI 2019/758, GB CLP SI 2019/720, UK BPR, COSHH, CDG 2009, HSE EH40). Retained BPR authorisation note for biocidal product.
• 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. Classification retained as non-hazardous. BS EN 14476 efficacy claim retained.

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. The classification complies with ATP 12 (UK CLP).