

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

1.1 Product identifier

Product form: Mixture

Product Name: **Polybond SH40 Surface Cleaner Concentrate**

Product code: SH40

Version: 2.5 | Date of Issue: 27 June 2026

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

Identified uses: Surface cleaner concentrate for professional and industrial use. Suitable for cleaning hard surfaces.

Uses advised against: Not for domestic use without appropriate controls. Do not use undiluted on sensitive surfaces without testing.

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.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Skin Irrit. 2 — H315 | Eye Irrit. 2 — H319 | Aquatic Chronic 3 — H412

2.2 Label elements

Signal Word: WARNING

Hazard pictograms: GHS07 (Exclamation mark)

Hazard Statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements:

P264 Wash hands thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local regulations.

2.3 Other hazards

Contains no PBT and/or vPvB substances $\geq 0.1\%$ 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.

3.2 Mixtures

Didecyldimethylammonium Chloride	CAS: 7173-51-5 EC: 230-525-2 REACH: 01-2119945987-15 (Notification pending for GB)	0.9375–1.3125 %	Acute Tox. 4 (Oral) H302 Skin Corr. 1B H314 Eye Dam. 1 H318 Aquatic Acute 1 H400 (M=10) Aquatic Chronic 2 H411 (M=10)
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
Amines, N-C12-C14(even numbered)-alkyltrimethyl-, reaction products with chloroacetic acid	EC: 941-419-7 REACH: 01-2120050368-56 (Notification pending for GB)	0.14–0.28%	Acute Tox. 4 (Oral) H302 Skin Corr. 1C H314 Eye Dam. 1 H318 STOT RE 1 H372 Aquatic Acute 1 H400 Aquatic Chronic 1 H410

Note: The mixture's classification reflects dilution effects of hazardous components, verified per UK CLP bridging principles. Full text of H-statements is given in Section 16. UK REACH transitional provisions apply — full registration pending for substances manufactured/imported in Great Britain at ≥1 tonne/year.

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.

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

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

Ingestion: Call a poison center or a doctor if you feel unwell. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact: Irritation.

Eye contact: Eye 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.

Unsuitable: None known.

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire: Toxic fumes may be released.

5.3 Advice for firefighters

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel: Ventilate spillage area. Avoid contact with skin and eyes.

For emergency responders: Do not attempt to take action without suitable protective equipment. For further information, refer to section 8.

6.2 Environmental precautions

Avoid release to the environment. Harmful to aquatic life with long lasting effects.

6.3 Methods and material for containment and cleaning up

Take up liquid spill into absorbent material. Dispose of materials or solid residues at an authorized site.

6.4 Reference to other sections

For further information, refer to section 13.

7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Protect from freezing.

7.3 Specific end use(s)

Surface cleaner concentrate for professional and industrial use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**8.1 Control parameters**

No national occupational exposure or biological limit values have been established for the components of this mixture 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.

Eyeface protection: Safety glasses / chemical goggles.

Hand protection: Protective gloves (nitrile or neoprene recommended).

Skin protection: Wear suitable protective clothing.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Environmental exposure controls: Avoid release to the environment.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Physical state	Liquid
Colour	Dark blue
Odour	Pleasant
pH	9–10
Melting / Freezing point	No data available
Boiling point	No data available
Flash point	No data available (not flammable)
Auto-ignition temperature	No data available
Flammability	Not flammable
Vapour pressure	No data available
Relative density	No data available
Solubility	Miscible with water
Partition coefficient n-octanol/water	No data available
Viscosity	No data available
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.

10.4 Conditions to avoid — None under recommended storage and handling conditions (see section 7).

10.5 Incompatible materials — Strong oxidising agents, strong acids.

10.6 Hazardous decomposition products — Under normal conditions of storage and use, hazardous decomposition products should not be produced. In case of fire, toxic fumes may be released.

11. TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects**

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

Skin corrosion/irritation: Causes skin irritation (pH 9–10).

Serious eye damage/irritation: Causes serious eye irritation (pH 9–10).

Respiratory or skin sensitisation: Not classified.

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

STOT-single exposure: Not classified.

STOT-repeated exposure: Not classified for the mixture (one component carries STOT RE 1, but at low concentration).

Aspiration hazard: Not classified.

Component data (Didecyldimethylammonium Chloride, CAS 7173-51-5):

LD50 oral rat: 238 mg/kg | LD50 dermal: 3342 mg/kg

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Ecology – general: Harmful to aquatic life with long lasting effects (Aquatic Chronic 3, H412).

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

Hazardous to the aquatic environment, long-term (chronic): Aquatic Chronic 3, H412.

Not rapidly degradable.

Component data (Didecyldimethylammonium Chloride, CAS 7173-51-5):

LC50 – Fish: 0.19 mg/L | EC50 – Other aquatic organisms: 0.062 mg/L

12.2 Persistence and degradability — No additional information available.

12.3 Bioaccumulative potential — No additional information available.

12.4 Mobility in soil — No additional information available. Expected to be mobile in water.

12.5 Results of PBT and vPvB assessment — Contains no PBT and/or vPvB substances $\geq 0.1\%$ as defined under UK REACH (SI 2019/758).

12.6 Other adverse effects — No additional information available. Avoid release to the environment.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of contents/container in accordance with licensed collector's sorting instructions and local regulations. Do not allow into drains or watercourses. Contaminated packaging should be disposed of as hazardous waste. EWC code typically 20 01 29* (detergents containing hazardous substances) or as advised by local waste authority.

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.

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); POP Regulation; Ozone Regulation; Explosives Precursors Regulation; Drug Precursors Regulation.

PIC Regulation note: Didecyldimethylammonium Chloride (CAS 7173-51-5) is subject to the UK Prior Informed Consent (PIC) regime for export/import of hazardous chemicals. Suppliers must comply with notification requirements for exports outside Great Britain.

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.

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. | H315 Causes skin irritation. | H318 Causes serious eye damage. | H319 Causes serious eye irritation. | H372 Causes damage to organs through prolonged or repeated exposure. | H400 Very toxic to aquatic life. | H410 Very toxic to aquatic life with long lasting effects. | H411 Toxic to aquatic life with long lasting effects. | H412 Harmful 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. PIC = Prior Informed Consent. 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).
- 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 3: Updated to include UK REACH Reg. No. / transitional note column for all ingredients.
- Section 8: Confirmed no HSE EH40 WEL values apply; engineering controls and PPE guidance 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, COSHH, CDG 2009, HSE EH40). Retained PIC note for Didecyldimethylammonium Chloride. Removed all residual EU-only phrasing.
- 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 Skin Irrit. 2 / Eye Irrit. 2 / Aquatic Chronic 3 (verified against source and dilution effects).

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).