

August Race - Oceans Assured™

Complete Shine - Environmental Impact Report

This report provides a Whole-of-Life environmental impact assessment for **Oceans Assured™ Complete Shine**. The assessment covers raw material sourcing, manufacturing, packaging, transportation, use phase, and end-of-life. It draws upon product formulation data, safety data references, and environmental policies of key partners involved in formulation, packaging, and logistics.

1. Life Cycle Boundaries

The assessment includes the following stages:

1. Raw Material Extraction & Supply
2. Manufacturing & Blending
3. Packaging
4. Transportation & Distribution
5. Use Phase (exterior detailing onboard vessels)
6. End-of-Life (container recycling, wastewater disposal under MARPOL Annex V)

2. Environmental Impact Categories

- Carbon Footprint (kg CO₂e per 5L container) - Aquatic Toxicity (OECD 201/202/203) - Biodegradability (OECD 301/302) - Resource Efficiency (energy, water, PCR packaging content) - Waste & Disposal (MARPOL Annex V compliance) - Packaging Circularity

3. Impact Assessment by Stage

Raw Materials: The formulation contains APG surfactants which are readily biodegradable, Overall impact: ~25% of lifecycle carbon footprint.

Manufacturing: Blended and packaged in the UK, operating under ISO 14001:2015. Commitment to reducing emissions, optimising energy and water use, and minimising waste. Impact: ~15% of lifecycle footprint.

Packaging: Supplied in 5L HDPE containers with 30% PCR, manufactured in the UK. Packaging is 100% recyclable and reusable. Impact: ~20% of lifecycle footprint.

Transportation: Logistics who operate energy-efficient vehicles, invest in solar energy at depots, and recycle secondary packaging. Impact: ~10% of lifecycle footprint.

Use Phase: Designed as a finishing product to provide a protective, glossy layer on marine surfaces. Silicone emulsions enhance durability and shine while being non-persistent in marine environments. At use concentrations, the formulation is biodegradable and safe for discharge under MARPOL Annex V.

End-of-Life: Containers are recyclable and reusable. Residual product and wash water comply with MARPOL Annex V disposal guidelines. Impact: Minimal when disposed of correctly.

4. Overall Impact Profile

Category	Rating
Carbon Footprint	Approx. 2.6 kg CO2e per 5L (Extremely low)
Aquatic Toxicity	Low – compliant with MARPOL Annex V
Biodegradability	Readily biodegradable (>60% in 28 days, APG surfactants)
Packaging Circularity	30% PCR (target 50% by 2027)
Transparency	Full attestation via Oceans Assured Compliance Platform

5. Conclusion & Commitments

Oceans Assured Complete Shine demonstrates verified low environmental impact across its lifecycle. Key strengths include: MARPOL compliance, biodegradability (APG), recyclable PCR packaging, and UK-based sustainable supply chain partners. Future commitments include: - Increasing PCR to 50% by 2027 - 100% renewable manufacturing energy by 2030 - Ongoing independent verification of life cycle data