

ITEM NO. YB-M

VERSION 1.0

DATE May 2026

Yeast Beast Marine

Yeast-powered cleaner concentrate for bilges, tanks, holds and shipyard work

Yeast Beast Marine is a bioactive, water-soluble intensive cleaner that dissolves greases, oils and heavy fuel residue and ensures their complete biological degradation. The product is based on innovative surfactants from natural raw materials and yeast cultures. It is diluted with water to the working concentration appropriate for the marine application, from heavy bilge clean-out to routine maintenance.

Technical Data

Property	Value
Base	Yeast culture and surfactant system (concentrate)
Ingredients	Betaine, sodium carbonate, sodium citrate, sodium tripolyphosphate, yeast cultures
Physical state	liquid
Colour	brownish
Odour	characteristic
pH value (at 20 °C)	10.5 to 11.5 (concentrate)
Density	1.0 to 1.2 g/cm ³
Boiling point	97 to 100 °C
VOC content	< 0.1 %
Biodegradability	100 % (OECD 301B)
Water hazard class	WGK 1
Dangerous goods	not classified as dangerous goods
Working temperature	+20 °C to +60 °C, optimum at +40 °C
Working dilution	1:1 to 1:60
Available sizes	5 L, 20 L, 200 L, 1,000 L IBC

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Product features

Built for marine duty: bilge, ballast and bunker tanks, hold cleaning and shipyard work. Cuts through heavy fuel residue, lube oil and biofilm without solvent fumes. 100 % biodegradable per OECD 301B. Skin-friendly and non-toxic to plants and animals at working dilution. Non-flammable, chlorine-free, not corrosive to paint or coating systems. Reduces gas-freeing time on tank cleaning. Neutralises diesel and heating-oil odours.

Areas of application

Bilges and sumps: heavy fuel residue, lube oil and biofilm in engine-room bilges. Safe on steel.

Tank cleaning: ballast, fuel, heavy-fuel, fresh water and wastewater tanks. Reduces gas-freeing time between cargoes.

Hold cleaning: bulk-carrier holds between cargo changes. Removes grain, soot, vegetable oil and protein residue.

Shipyard work: pre-treatment before coating, surface preparation, dock-stay cleaning under tight turnaround.

Heavy fuel oil residue: dissolves HFO sludge and varnish in bunker tanks. Works at 40 to 60 °C.

Heating-oil odour: two-stage treatment with optional antimicrobial follow-up for full odour neutralisation.

Application

The concentrate is mixed with fresh water at the desired dilution ratio (see dosage guide). For best results, lightly pre-wet the surface, then spray on the diluted solution and gently work it in with a brush. Allow to act for 5 to 30 minutes depending on soiling, then rinse with water or high-pressure spray. For stubborn deposits, increase concentration or extend dwell time. The spent cleaning solution is discharged per local marine waste-water regulations as oily wastewater for a licensed processor.

IMPORTANT

Undiluted concentrate (pH 10.5 to 11.5) may attack amphoteric light metals such as aluminium and zinc. Above pH 8.5 these metals start to react. At working dilution of 1:10 or higher the product is suitable for steel, stainless steel, painted and coated surfaces. Always run a 24-hour compatibility test on aged or proprietary coatings before full-tank application.

Dosage guide

Heavy (1:1 to 1:10): heavy fuel oil residue, older bilge deposits, bunker-tank sludge. Apply at 40 to 60 °C, dwell 15 to 30 minutes, high-pressure rinse.

Standard (1:10 to 1:20): standard bilge cleaning with pre-wetted surface.

Medium (1:20 to 1:40): hold cleaning, ballast tanks, routine surface preparation.

Light (1:30 to 1:60): routine maintenance between dock stays, light contamination.

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Material compatibility

Compatible: carbon steel, stainless steel, modern epoxy and zinc-silicate coatings, most marine paints, EPDM and nitrile rubber components.

Not compatible: aluminium, zinc and other amphoteric light metals at concentration. At working dilution (1:10 and weaker), they are safe in practice.

Always spot-test: coatings older than five years, proprietary linings, natural-rubber components, polished or unknown surfaces.

Storage, shelf life and logistics

Storage temperature +5 °C to +40 °C. Store protected from direct sunlight and frost in original containers, tightly closed. Below +5 °C the active matrix may lose efficacy and only partially recover after thawing. Shelf life 24 months from date of production when stored as specified.

Available in 5 L, 20 L, 200 L and 1,000 L IBC. Other packaging on request. For ship-stay deliveries we arrange expedited transport to EU ports within 2 to 5 working days, Mediterranean ports 5 to 10 days, global ports 14 to 28 days by sea freight from Bexbach, Germany.

The information in this data sheet describes the properties of the product and serves as a guideline for its application. It is based on laboratory tests and practical experience. As local conditions may vary, we recommend always verifying the suitability of the product through a preliminary test. The information and instructions in the Safety Data Sheet must be observed in all cases.