

DUTO TUFF-HF

Maintenance Chemical

DUTO TUFF-HF is a heavy-duty water based alkaline cleaner. It has numerous cleaning applications including removal of greases, waxes, vegetable and animal oils, sludge, soot, carbon deposits, dirt and grime.

Product information

DUTO TUFF-HF is a highly concentrated alkaline cleaner that is free from hydrocarbon solvents and biodegradable.

Features

- Highly concentrated
- Does not contain nonylphenol ethoxylates or other estrogenic compounds
- Biodegradable
- Free from hydrocarbon solvents
- DUTO TUFF-HF is most suitable for removal of wax deposits
- It has numerous cleaning applications including removal of grease, vegetable & animal oil, soot & general dirt & grime

Benefits

- Removal of soot deposits from inert gas systems
- Very effective and economical in use
- Completely safe on epoxy coatings

Specification

General

Invent Hazard Material (IMO/EU) classification	C-49
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Physical Properties

Appearance	Orange
Density [g/ml]	1.045-1.055
Form	Liquid
pH	13-14

Technical data

Not Compatible	The concentrated product may react with aluminium, zinc, tin and their alloys.
Volume (l)	25

Approvals

This composition meets the criteria for not being harmful to the marine environment according to MARPOL Annex V and may be discharged into the sea when used to clean cargo holds and external surfaces on ships.

Directions For Use

General Cleaning - Deck and Engine Room

DUTO TUFF-HF can be used for different types of cleaning, and it can be applied by brush, hand spray, high- and low pressure washing machines etc.

Removal of soot from Inert Gas Systems (IGS)

Apply DUTO TUFF-HF use 1:4 with water. However, if used with a hand sprayer, apply the product neat on the surfaces, allowing 1 litre per 12m².

Leave for about 30-45 minutes. The surface remains wet.

Wash down with hot water (80°C) and check the results.

Repeat the procedure if necessary.

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Cargo hold cleaning

DUTO TUFF-HF can be used for cargo hold cleaning after soot, coal, pet coke and other bulk materials.

Dosing method

Apply DUTO TUFF-HF mixed 20% in water.

Leave for 10--15 minutes. The surface remains wet.

Wash down with water jet. For best results, direct the water jet at the lowest parts of the hold first and work upwards.

Repeat the procedure if necessary.

Duto ***Marine***

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Chem

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Hold

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