Wilhelmsen Ships Service

UNITOR by Wilhelmsen

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SEACLEAN PLUS 25 LTR

Product group: **640** Product number: **654715**

Unitor™ Seaclean Plus is a modern low-toxic, biodegradable solvent based product. This product is excellent as a tank cleaner and degreaser.

Product information

This product supersedes product no: **571406**

Unitor™ Seaclean Plus meets IMO's requirements regarding safety and pollution hazards of chemicals. It is an IMO approved tank cleaner as per annual MEPC 2 Circulars and ideal for cleaning after CPP and DPP cargo.

Features

- The emulsifying agents in this product are biodegradable
- Does not contain nonylphenol ethoxylates or other estrogenic compounds
- Versatile, can be used for a wide range of applications
- Can be used for cleaning and gas-freeing of double bottom, deep, and fuel oil tanks at sea
- Can also be used for cleaning and gas-freeing of crude and refined mineral oil cargo tanks
- Can be used for degreasing and cleaning of bilge spaces and engine rooms

Benefits

- Highly concentrated tank cleaner with quick penetration and powerful emulsifying properties
- Easy rinse off, leaving clean and oil-free surfaces
- Economical, very low dosage rates
- Easy to use by any conventional means
- Safe to use on most metal surfaces, painted surfaces and tank coatings

Specification

General

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

Physical properties

Appearance	Pale yellow
Density [g/ml]	0,8
Flash Point [°C]	Above 61
Form	Liquid

Approvals

Unitor™ Seaclean Plus™ has been evaluated by the BLG Working Group on the Evaluation of Safety and Pollution Hazards of Chemicals (ESPH) and found to meet the requirements of paragraph 13.5.2 of the MARPOL Annex II and is consolidated into annex 10 of the MEPC.2/Circular. * 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.

Documents

Direct access to the Environmental Product Declaration (EPD) for this product

SDoC and MD for IHM

Directions for use

Direct injection method - for tank cleaning machines
The dose rate should be between 0.1-0.2% i.e.1-2 litres per ton wash water.

Recirculation method - for tank cleaning machines
It is advised to use a solution of 0.1-0.2% i.e. 1-2 litres per ton wash water mixed in the tank to be cleaned.

Dose rates and results will vary depending on contamination, the temperature of the cleaning solution, and number of tanks to be cleaned with the solution. Best results are obtained when water is heated to a temperature between 65-80°C.

Spot cleaning
UNITOR™ Seaclean Plus™ can be sprayed neat onto tank surfaces to be cleaned. The contact time should be at least 30 minutes. Bulkheads/walls can be washed down by use of tank washing machines or high pressure cleaning machines. The best result is achieved with hot water between 60-80°C. Slops should be constantly stripped from the tank and transferred to a holding tank or pumped ashore to slop tanks.

Rock and Roll method

Cleaning of double bottom tanks during voyages.
Heat the remaining fuel in the tank, trimming the vessel as required to assist in stripping tank.
Flush tank with sea water, stripping constantly.
After flushing, ensure all suction and discharge valves in the engine room are closed.
Dose tank with UNITOR™ Seaclean Plus™ through the sounding pipe or manhole between 0.075-0.08% of the capacity of the tank
After adding Seaclean Plus fill the tank to 25% capacity with sea water, raise the temperature up to 60°C and maintain this for 24 hours.
Now top up the tank to 75-80% capacity with sea water and continue to heat for 48-72 hours.
Discharge and strip tank.
Refill the tank to 50-60% capacity with sea water and allow 2 hours rinsing time.
Discharge tank and strip, flushing tank with sea water for 2 hours, stripping continuously. When completed, inspect tank to ascertain if second cleaning is required. (*)
If a second cleaning is required start the above steps over again.
Example:

Cleaning of a double bottom tank with a capacity of **100 M3**

Dose **75 to 80 litre** of Seaclean Plus into the tank (0.075% x 100 M3 = 0.075 M3 or 75 L)
Fill the tank with **25m³** of seawater, keep temperature at 60°C for one day.
Top up tank with **50-55m³** of seawater, keep temperature at 60°C for 2-3 days.
Strip the tank and refill with **50-60m³** of seawater, allow 2hrs rinsing time.
Discharge the tank and continue to flush it for the next 2hrs before inspection. (*)

(*) Before entering the tank it is important to follow 'entering confined spaces' procedure as per ISM system. Proper ventilation and tank atmosphere are same as crucial as safety precautions and use of personal protective equipment prior accessing the tank.

Rock and Roll cleaning dosage chart

Fuel Oil Viscosity Centistokes at 50 degrees celsius	SEACLEAN PLUS per ton of water 1st Stage	SEACLEAN PLUS per ton of water 2nd Stage
180 to 320	1 litre	0.75 litre
30 to 180	0.75 litre	-
Over 320	1 litre	1 litre
Up to 30	0.5 litre	-

Degreasing Marine Diesel Engine Cooling Water Systems

(This method can only be used when engine is out of service)

Drain the cooling system and flush with water.
Refill engine with water adding 20 litres Unitor™ Seaclean Plus™ per 1000 litres cooling water.
Circulate the solution through the system and heat until a temperature of about 60°C.
Continue circulation of the solution through the system for a minimum of 5 hours.
Drain engine and check the cleaning result. Repeat cleaning procedure if necessary.
When cleaning is completed, drain the system, and thoroughly flush with clean water. Refill while adding an anticorrosion treatment such as NALFLEET™ Rocor NB Liquid™
UNITOR™ Seaclean Plus™ can also be used for local cleaning and degreasing in engine rooms and on deck. It can be applied by brush, hand spray, immersion soaking or any other conventional means. Apply undiluted onto soiled surfaces and allow a contact time of 15-30 minutes before rinsing off with water.

Soak method
Immerse heavily soiled parts into bath of undiluted UNITOR™ Seaclean Plus™, medium to light soiled parts may be cleaned in a 10-30% solution in water. Parts should be soaked for at least 30 minutes before washing off with water.

Spray method
Spray UNITOR™ Seaclean Plus™ undiluted onto soiled areas. Allow between 15-30 minutes of penetration time before rinsing off with water.

Related products

Is consumable by

778862
UNITOR 4 CHEMICALS DILUTION STATION

737189
CHEM. CLEAN. UNIT W/HEATING, COATED

572060
UNITOR CHEMICAL CLEANING UNIT

Is frequently bought together with

571687
DISCLEAN 25 LTR

571752
NATURAL HANDCLEANER 4X5 LTR

765018
ENVIROCLEAN 25 LTR

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