

A close-up photograph of a green metal surface, likely part of a ship's hull or deck. The surface is smooth and has several circular openings or hatches. A blue horizontal bar is overlaid on the left side of the image. The background of the entire page is a solid light green color.

# Cleaning, Maintenance and Biochemicals

## CLEANING AND MAINTENANCE

### Problem and solution summary

<b>Problem</b>	<b>Solution</b>	<b>Product(s)</b>
<b>CARGO TANK/HOLD</b>		
Cargo tank cleaning after mineral oils	Solvent emulsion	<b>Seaclean Plus</b>
Cargo tank cleaning after drying, semi-drying and non-drying natural oils and fats	Saponifying and detergents	<b>Alkleen Liquid Alkleen S. Liquid</b>
Cargo tank cleaning after petrochemicals and light hydrocarbons	Detergents	<b>Alkleen S. Liquid Aquabreak PX Unipol</b>
Cargo tank cleaning after general chemical cargoes	Refer to Tank Cleaning Manual	<b>Product choice depends on type of cargo, please consult UNITOR Tank Cleaning Manual</b>
Fuel and lube oil tank cleaning	Tank cleaners for Rock&Roll cleaning method	<b>Seaclean Plus</b>
Hydrocarbon gas-freeing	Following normal or specific cleaning, wash with water based cleaner solution	<b>Alkleen Liquid Alkleen S. Liquid Tankleen Advance</b>
Cargo hold cleaning	Water based cleaner	<b>Aquatuff / Aquatuff High Foam Aquabreak PX</b>
Cleaning chemicals run off from vertical surfaces	Combine alkaline cleaners with a foam additive	<b>Foam-agent</b>
Cargo tank/hold sanitising and deodorizing	Wash with water based cleaner solution	<b>Alkleen Liquid Alkleen S. Liquid Tankleen Advance</b>
Oil spills on sea, in harbors, beaches and rocky shores	Low toxic, biodegradable oil spill dispersants	<b>Seacare OSD Seacare Ecosperse 52</b>
Removal of small oil spills on board	Sorbents + cleaning	<b>Unitor Sorbents Seacare OSD Aquabreak PX</b>
Cleaning and upgrading of coatings	Special purpose organic liquid	<b>Zinc Coat Conditioner</b>
Light cement stains	Liquid detergent containing strong inorganic acid	<b>Metal Brite Metal Brite HD</b>
Solidified cement	Clean with a solution of inorganic inhibited acid	<b>Descaling liquid</b>
Rust removal/metal surface brightener	Clean with a solution of inorganic inhibited acid	<b>Metal Brite Metal Brite HD Tankleen Bright</b>
White residue from epoxy-coating (after carriage of fatty acids etc.)	Clean with a solution of inorganic inhibited acid	<b>Tankleen Bright</b>
Cleaning of reefer containers and reefer cargo holds	Water based cleaner and disinfectant	<b>Reefer Cleaner</b>
Removal of sediments, silts and mud from ballast tanks	Special purpose polymer	<b>Mud &amp; Silt Remover</b>

**ENGINE ROOM**

Cleaning of bilges, machinery spaces, bulkheads, tank tops and any oil/grease soiled areas	Self-splitting solvent based cleaner	<b>Cleanbreak</b>
Cleaning fuel/lube oil filters	Ultrasonic bath	<b>Aquabreak PX Unitor USC Enviroclean</b>
Cleaning machinery parts	Ultrasonic bath	<b>Aquabreak PX Unitor USC Enviroclean</b>
Degreasing marine diesel engine cooling water systems	Solution of solvent emulsion cleaners	<b>Seaclean Plus</b>
Removal of grease and carbon based deposits from turbocharges and from the air side of air coolers or heat exchangers	Special purpose cleaner	<b>Air Cooler Cleaner ACC Plus Carbon Remover Carbonclean LT</b>
Cleaning the oil side of the lube and fuel oil heat exchangers	Solvent emulsion cleaners of fuel oil treatment compound	<b>Seaclean Plus Fuel Care</b>
Removal of water scale from heat exchangers and boilers	Inhibited acid cleaners	<b>Descaling Liquid Descalex</b>
Cleaning of separator disc stacks	Clean with a solution of inorganic inhibited acid	<b>Disclean</b>
General removal of carbonaceous oil, varnish and grease residue	Special purpose solvents	<b>Air Cooler Cleaner ACC Plus Carbon Remover Carbonclean LT</b>
Removal and passivation of rust and oxidation from ferrous and non-ferrous metals	Use of a solution of inorganic inhibited acid	<b>Metal Brite Metal Brite HD</b>
Cleaning of new boilers and cooling systems	Special purpose water based cleaner	<b>Commissioning Cleaner</b>
Cleaning electrical apparatus	Ultrasonic bath	<b>Electrosolv-E</b>
Effluent treatment	De-emulsification + flocculation	<b>Bilge Water Flocculant</b>

**DECK**

Brightening up wooden decks	Special powder based product	<b>Teak Renewer</b>
Rust stains from painted, ceramic and wooden surfaces	Clean with a solution of inorganic inhibited acid	<b>Metal Brite Metal Brite HD</b>
Oxide stains on brass, aluminium and stainless steel	Clean with a solution of inorganic inhibited acid	<b>Metal Brite Metal Brite HD</b>
Light rust removal	Clean with a solution of inorganic inhibited acid	<b>Metal Brite Metal Brite HD</b>

Heavily rust removal	Liquid detergent containing strong inorganic acid	<b>Descaling Liquid</b>
Paintwork cleaning	Wash with water based cleaner solution	<b>H.P. Wash Aquabreak PX Fore&amp;Aft Metal Brite</b>

### ACCOMODATION

General shipboard cleaning	General purpose water based cleaners	<b>H.P. Wash Aquabreak PX Fore&amp;Aft Uniwash</b>
General accommodation cleaner	General purpose water based cleaners	<b>Aquabreak PX Fore&amp;Aft Uniwash</b>
Carpets cleaning (spot + deodorizing)	Odor eliminator + cleaning through microbial activity	<b>Gamazyme BOE*</b>
Carpet cleaning	Special water based cleaner	<b>Carpet Cleaner</b>
Cleaning bathrooms	Special purpose bacterial formulation	<b>Gamazyme MSC</b>
Descaling of toilet bowls, drain and pipes	Special acid and bacteria based product	<b>Gamazyme Toilet Descaler</b>
Cleaning toilets	Special purpose bacterial formulation	<b>Gamazyme BTC</b>

### GALLEY

Removal of odor from garbage and waste collection areas	Odor eliminator + cleaning through microbial activity	<b>Gamazyme BOE*</b>
Floor cleaning - fat elimination/reduced slippage and increased safety in galley area	Special purpose bacterial formulation	<b>Gamazyme FC</b>
Cleaning of reefer rooms	Water based cleaner and disinfectant	<b>Reefer Cleaner*</b>
General cleaning	General purpose water based cleaners	<b>Fore&amp;Aft Uniwash Gamazyme MSC</b>

### MISCELLANEOUS

Sewage treatment	Flocculation + dewatering	<b>Bilge Water Flocculant</b>
Foaming in sewage and waste systems	Non-silicone defoamer	<b>Defoamer Concentrate*</b>
Low biological activity in sewage treatment plants and systems	Special purpose bacterial formulation	<b>Gamazyme 700 FN</b>
Grease accumulation in drain lines, grease traps and floor drains	Special purpose bacterial formulation	<b>Gamazyme Digester*</b>
Loosen corroded parts as nuts, bolts etc.	High speed penetrating oil	<b>Penetron Plus</b>

\*) Also available as Bag in a box (Cruise)