



# GAMAZYME 700FN 12KG

Product group: **656**      Product number: **571711**

Unitor™ Gamazyme™ 700FN is a concentrated biologically active powder formulation containing a blend of patented bacterial strains, specifically developed to deal with sewage wastes.



## Product information

This product supersedes product no: **79136**

Unitor™ Gamazyme™ 700FN is formulated to degrade excess residual waste products in shipboard sanitation pipe work systems, holding tanks and marine sewage treatment plants. The specialised strains in Unitor™ Gamazyme™ 700FN will digest grease, fats, sewage, starch and other organic compounds. The degradation of paper, protein and waste product residuals is greatly increased, and the odours that these produce, are reduced.

The bacteria in Unitor™ Gamazyme™ 700FN will colonise the waste organic material which lines the pipework/tank system and degrade the waste until the system is clean. The biological activity in the marine sewage treatment plant is greatly increased, so the plant can thus handle more waste. The obnoxious smells in toilet areas and scuppers, normally associated with overloaded or blocked systems, are reduced.

## Features

- Powder formulation for easy use
- Biodegradable
- Reactivates biological activity in systems which have been rendered inactive by overloading, washout or use of aggressive cleaning products
- Eliminates the need for hazardous chemicals
- Cost-effective, saves time, money and manpower

## Benefits

- Eliminates the odours associated with sanitary systems which are overloaded or blocked
- Cleans sewage holding tanks without the need for manual entry
- Clears pipes and systems blocked by organic waste matter
- Clears organic materials in slow draining pipes and scuppers
- Restarts septic sewage treatment plant
- Keeps complete sanitary systems in optimum operational condition

## Specification

### Physical properties

<b>Appearance</b>	Tan brown
<b>Form</b>	Saw dust like powder

## Directions for use

### Dosing method

#### Sewage treatment plant

Direct dosing to the sewage treatment plant or via the nearest toilet will greatly enhance the biological activity and keep the plant at peak operating efficiency.

**A) On ships except passenger vessels** Ineffective or septic sewage treatment can be reactivated and maintained in peak operating efficiency by dosing Unitor™ Gamazyme™ 700FN direct in the tank or via the nearest toilet. To reactivate the plant, 1kg Unitor™ Gamazyme™ 700FN should be mixed with 10-15 litres of hand hot (35°C) fresh water, left for 10-15 minutes (stirring periodically) for the bacteria to activate before dosing into the tank daily until the system is operating efficiently. Maintenance dosing of 0.1 - 0.25kg

weekly will keep the system operating effectively. Replacing the toilet cleaner in use by Uonitor™ Gamazyme™ BTC (biological toilet cleaner) will dose millions of specialised bacteria into the system. These powerful bacteria will digest organic material lining the pipes and boost the bacterial activity in the sewage treatment plant, keeping it operating at peak efficiency.

### **B) On passenger vessels**

The applications is the same as mentioned above, but the dose rates are different.

The dose rate depends on the number of people on board the vessel. As a rule of thumb use 50 gram per m<sup>3</sup> of the volume of the sewage tank. Then a weekly dosage of 10 gram per m<sup>3</sup> of the volume of the sewage tank.

An example of a cruise vessel with a sewage tank on 100 m<sup>3</sup> and 2500 people and on a two weeks cruise. What is the consumption of Uonitor™ Gamazyme™ 700FN?

Initial dosage: (50 g/m<sup>3</sup> x 100 m<sup>3</sup>):1000 = 5kg

Weekly dosage: (10 g/m<sup>3</sup> x 100 m<sup>3</sup>):1000 x 2 weeks = 2kg On this cruise, will be used. 7kg of Uonitor™ Gamazyme™ 700FN

### **Tank cleaning**

Holding tanks can be cleaned periodically or prior to entry without the use of dangerous toxic chemicals.

Grey and black water holding tanks, sewage tanks, sewage treatment plant should be flooded and pumped empty to clear excess soil before cleaning. Holding tanks must be fitted with an air manifold connected to a low pressure air line of sufficient volume to gently turn the mass of water within the tank. In sewage treatment tanks the normal air supply will suffice.

The tank should be filled to 75% capacity with fresh or sea water and the air supply turned on. Approximately 0.5kg of Uonitor™ Gamazyme™ 700FN in 5 to 10 litres of fresh hand hot (35°C) water should be mixed and left for 10-15 minutes before dosing into the tank. Dosing can be either direct or via the nearest toilet. The tank should then be filled and left with the air on for at least 48 hours. The dose rate should be approximately 0.5kg per 500 litres tank capacity with a minimum dose of 5kg. Although Uonitor™ Gamazyme™ 700FN is formulated for use in cold (15°C minimum) sea water, performance will improve with lukewarm (35°C) fresh water or sea water.

### **Pipe cleaning**

Maintenance dosing will keep galley and sewage pipes clean and clear of organic residual wastes.

A liquid solution should be prepared by mixing of 0.5 kg of Uonitor™ Gamazyme™ 700FN in 15 to 20 litres of hand hot (35°C) fresh water. Stir it and, if possible, leave for 15 minutes to reactivate the bacteria. Whilst constantly agitating this solution, 1 litre should be dosed into sinks, scuppers, showers, drains, waste disposal units, etc. each evening until the blockage is cleared. A maintenance dose once or twice a week can then be applied to keep the pipes in clean condition. Harsh toxic cleaners (acids, caustics, disinfectants) should not be used as these will kill off the bacterial action in the pipes. Alternatively, the pipes should be isolated and filled with the solution and left for up to 48 hours before draining. If necessary, further applications should be made until drains run clear.

**NOTE:** Severly scaled systems should be acid cleaned.

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