

TFP-50 Waste Degradar

DIRECTIONS FOR USE - Marine Environments:

Passenger Vessels

The dose rate depends on the number of passengers and volume of sewage (blackwater) produced per day. As a rule of thumb, a ship carrying 3000 passengers and crew will produce 120 m³ (30,000 gal) of sewage per day, or 840 m³ (210,000 gal) per week. The weekly dosage is determined by figuring 6 grams of TFP-50 per m³ (0.2 ounces of TFP-50 per 250 gallons) of the daily volume of sewage produced.

Example: With a cruise vessel of 3000 people on a two week cruise, here is the dosage calculation:

Initial dosage: $(30 \text{ g/m}^3 \times 120 \text{ m}^3)/1000 = 3.6\text{kg}$ [$(1 \text{ oz}/250 \text{ gal}) \times 30,000 = 120 \text{ oz (7.5lb)}$]

Weekly dosage: $(6 \text{ g/m}^3 \times 120 \text{ m}^3)/1000 \times 2 \text{ wks} = 1.4\text{kg}$ [$(0.2 \text{ oz}/250 \text{ gal}) \times 30,000 \times 2 \text{ wks} = 48 \text{ oz (3lb)}$]

Total Usage: 5kg [10.5lb]

Cargo Ships

For Cargo Ships with crew size between 10 and 50, by dosing TFP-50 Waste Degradar via the nearest toilet, septic sewage treatment plants can be reactivated and maintained effectively. To reactivate the plant, mix 600 grams (20 oz) of TFP-50 Waste Degradar in 10 – 20 liters of lukewarm fresh water. Stir and leave for 30 minutes, then pour down one or two toilet nearest to the plant. Maintenance dosing of 100-120 grams (3.5 – 4.0 ounces) weekly will keep the system operating effectively – directly dose in toilet with no presoak necessary. TFP-50 releases billions of waste degrading bacteria into the system. These specially grown bacteria digest organic material (human waste, fats, oils, grease, cellulosic fibers, petroleum hydrocarbons) lining pipes. TFP-50 boosts the bacterial activity in the sewage treatment plant, maintaining peak operating efficiency.

Typical Application Environment

Dissolved Oxygen, mg/l	0-2.0
pH	5-10
Temperature, °C	5-55
Temperature, °F	40-130
Toxic metals, mg/l	Trace-None
Nutrient Requirements:	
BOD:N:P	100:5:1
Micronutrients	Trace

Storage and Handling

Store in a cool place. DO NOT FREEZE. Avoid inhalation and eye and skin contact. Wash hands upon contact, or after use. Keep out of the reach of children.