

# BiOWiSH® Aqua FOG - Grease Trap Treatment

## What is BiOWiSH® Aqua FOG

BiOWiSH® is a proprietary composite biocatalyst that enhances a broad range of hydrolytic, oxidative and reductive biochemical reactions. BiOWiSH® contains a novel consortia of metabolically cooperative micro-organisms, with endogenous and exogenous enzymes and small-molecule metabolic co-factors which support both biocatalytic and metabolic activity. BiOWiSH® products are composed of all natural materials and are non-genetically modified.

In grease traps, BiOWiSH® Aqua FOG is a revolutionary product that accelerates biological removal of fat, oil, grease and sediment food solids.

### Product Benefits



- Reduction in fat, oil, and grease (FOG) accumulation which can reduce pump-out costs
- Improved discharge water quality assisting downstream waste water treatment
- Reduction in pipework blockages
- Reduction in odors
- Reduction in insect odor attractants

## How safe is BiOWiSH® Aqua FOG?

BiOWiSH® Aqua FOG has no detrimental effects on the environment, humans, plants, or animals. The core technology behind BiOWiSH® products is also used in human ingestible supplements, animal feed additives, and crop enhancement products also produced by BiOWiSH Technologies. Environmental toxicology studies have shown no adverse effects from the use of BiOWiSH® products.

## Does BiOWiSH® Aqua FOG build up in the environment?

No, BiOWiSH® will not build up over time. BiOWiSH® is 100% biodegradable which prevents any long-term build-up.

## How does BiOWiSH® Aqua FOG provide effective grease trap treatment?

BiOWiSH® Aqua FOG provides a range of bio-catalytic materials that degrade a wide range of contaminants into smaller and simpler forms until they are ultimately removed from the water. This is the same process and pathway of natural decomposition on an accelerated timescale.

## How should I store and apply BiOWiSH® Aqua FOG?

BiOWiSH® Aqua FOG is an off-white fine powder. When stored in airtight containers under recommended conditions, the product has a 3-year shelf life. Once opened, any unused fraction of the package should be kept dry and away from water. The product is formulated to be readily soluble in water and is sensitive to high moisture conditions once opened.

The required dosage of BiOWiSH® Aqua FOG is mixed with water (clean water source with chlorine levels as high as 3 mg/L) and is dosed into the grease trap or any drain inlet of the grease trap.

## Mixing Rate

BiOWiSH® Aqua FOG can be mixed into water at a 1:10 ratio:

	Rate	BiOWiSH® Aqua FOG	Water
Metric	100 g/L	1 kg	10 L
US	10 oz/gal	0.8 lb	1 gal

## Dosing Method

### Systems with less than 24 hours retention time:

Dosage is based on daily grease trap flow rates and is best applied drip-fed into the grease trap on a continuous basis. This is typically achieved with a suitably sized mixing tank and a dosing pump. BiOWiSH® Aqua FOG can be mixed into solution for up to 14 days of dosing. Ensure mixing tank is flushed and rinsed prior to mixing each new batch.

### Systems with 24 hours or more retention time:

Dosage may be applied as a single daily dose by mixing BiOWiSH® Aqua FOG into solution and dosing. This can be done via a sink or floor drain.

## What dosing rates should I use?

Optimal dosing rates will depend on the following factors:

1. Water flow rate
2. Size of grease trap / retention times
3. The loading of fat, oil and grease
4. Presence of any anti-microbial products (disinfectants, bleaches, etc.)
5. Treatment objectives

## Dosage rate: based on total water flow through grease trap

	Dosage Rate (BiOWiSH® Aqua FOG powder / Grease Trap Flow)
Scientific	10.0 mg/L
Metric	10.0 g/1,000 L
US	1.34 oz/1,000 US gal

Dose levels can be varied based on the above variables to meet site objectives.

## Compatibility

BiOWiSH® Aqua FOG will not operate effectively in the presence of some chemical products such as disinfectants. Please maintain a chlorine level at or below 3 ppm and a pH range of 4.5 to 9.0. In most systems usage of many chemical treatments can be substantially reduced or eliminated when using BiOWiSH® Aqua FOG.



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