

BiOWiSH™-Odor

Description & Characteristics

The core BiOWiSH™ technology is a natural biocatalyst made via a novel fermentative process that has been continually refined by staff engineers and scientists over many years. The core BiOWiSH™ technology consists of a select consortium of bacteria, enzymes, nutrients and co-factors that act complementary to enhance the function and health of biological systems. BiOWiSH™-Odor goes through an extra fermentative stage to improve the control of biologically-generated odors such as ammonia, hydrogen sulfide, mercaptans, and others. These odors are formed by microbial activity acting under reducing (septic) conditions, meaning those conditions subject to limited oxygen. The BiOWiSH™ enzymes and bacteria work to degrade existing odor compounds as well as enhance existing biological processes so that the odors are not generated from the beginning.

BiOWiSH™-Odor has been successfully used by numerous clients to treat intensive and obnoxious odor emissions from commercial operations such as landfills, transfer stations, food processing facilities, and others. BiOWiSH™ has been successful in wash-down applications, direct surface applications, and is addressing noxious odors which arise from the venting of air streams.



BiOWiSH™ products are used in a variety of applications, including wastewater treatment, odor and emissions control and hydrocarbon remediation. BiOWiSH™ is 100% natural and non-toxic, and is not grown or developed from a genetically engineered bacteria. Instead, BiOWiSH™ was developed and refined from naturally occurring microbial strains. Although not required for most industrial and municipal applications, BiOWiSH™ is WSDA certified organic.

Key Benefits

- Fast acting
- Effective on a wide range of volatile organic compounds (VOC)
- Removes rather than masks odors
- Cost effective
- Operative at low dosage rates
- Long residual effective period
- 100% natural and non-toxic
- Safe for humans and the environment

Available Sizes

- 3.5oz/100g
- 2.2lb/1kg
- 11 lb/5kg

Physical Characteristics and Activity Range

Total plate count: minimum 1*10⁵ CFU/gm

Enzyme content: A consortia of natural digestive and metabolic (respiratory) enzymes, including cellulase, amylase, protease, and those involved with the Krebs cycle such as ATP Synthase.

Bacterial content: Primarily Lactobacillus (*P. acidilactic*, *P. pentosaceus*) and Bacillus (*subtilis*), with smaller proportions of other bacteria.

Odor and appearance: End product is a free-flowing light brown granular material with a mild “yeasty” odor and is dried and packaged similar to baking yeast.

pH range: preferred range 6.8 – 8.5
working range: 5.0 to 9.0

Usage Recommendations

ACTIVATION: Mix BiOWiSH™-Odor with “clean” water into solution at 5,000 mg/L. The solution should be left uncovered and exposed to ambient air for a minimum one hour activation time. The activation temperature should be kept above 15°C (60°F). If necessary, heaters or heat lamps should be used to maintain suitable temperature.

RULE OF THUMB: to achieve 5,000 mg/L: 1 kg bag mixed into 200 L (55 gallon) steel drum or 100 gm bag mixed into a 20 L (5 gallon) plastic pail.

Surface wash-down

APPLICATION: BiOWiSH™-Odor reduces odor emissions from washing down/pumping of surfaces contaminated with biological residue such as truck beds, work surfaces, etc.

DOSING: Direct application of the 5,000 mg/L activated solution to tank surfaces via spray mechanism. Typical dosing ranges from 1 to 3 mm thick application on all surfaces but typically varies - more or less as necessary – to wash down any solid materials from the surfaces.

USE: Use the activated BiOWiSH™-Odor solution to spray down the surface and walls of the storage tanks, sump basins, and other sources of odors. BiOWiSH™-Odor will both reduce odors and provide a detergent-type action to remove stains and other surface-attached material(s).

Odor reduction: Off-gas treatment

APPLICATION: BiOWiSH™-Odor reduces odor emissions from off-gassing of tanks.

DOSING: The off-gas must be bubbled through an adequate volume of activated BiOWiSH™ solution, suitable to prevent “hyper” bubbling and splashing, typically a volume enough to allow to allow a 3-5 second rise time through the activated solution.

USE: Collect the off-gassed air and bubble through the activated BiOWiSH™ solution.

Drain and floor wash

APPLICATION: BiOWiSH™-Odor helps wash out and thus reduce the odor emissions from contaminated floors and drains.

DOSING: Manual application of activated BiOWiSH™ solution to affected surfaces. Typical dosing ranges from 1 to 3 mm thick application on all surfaces to ensure saturation of the odor surfaces.

USE: Manual application of solution via mop and bucket or hand sprayer. The BiOWiSH™ application will start to work almost immediately and will benefit from a slight standing period (5-15 minutes) to allow for complete saturation and cleaning of the contaminated surfaces. This saturation period can be followed by wash down with fresh water.

Storage and Shelf Life

Product is delivered in sealed, moisture proof packaging. Product should be stored in a cool dry location, out of the sun and protected from vermin.

Product shelf life:

- 24 months (minimum) under extreme conditions,
- 36 months (minimum) under standard warehousing/office conditions.

Please refer to the BiOWiSH website for the appropriate MSDS.

Biological help for the human race



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