

EnviroDEFENSE®

AmmoniaFix™

Removal of Ammonia can be a difficult process, but it is critical to maintaining a healthy wastewater treatment plant. Upsets can be caused by several external factors such as shock loading, toxicity and solids loss. The microbes that have been isolated for AmmoniaFixer will efficiently degrade the Ammonia, survive in harsh conditions and react quickly after nitrification disruptions.



Enviro Defense AmmoniaFix is a fast and effective biological solution for denitrification. AmmoniaFix is a proprietary nitrification product formulated for a variety of wastewater types. The microorganisms in AmmoniaFix thrive in a wide range of wastewater types and respond quickly during upset conditions to restore balance.

MARKET APPLICATIONS:

Wastewater Streams
Wastewater Treatment Plants
Lagoons

PHYSICAL CHARACTERISTICS & ACTIVITY RANGE

EnviroDEFENSE® AmmoniaFix™ is a free-flowing powder containing multiple proprietary strains of Bacillus, nitrifying microbes and proprietary nutrients. AmmoniaFix is active at a pH range of 4-10 and a temperature range 35°F-110+°F.

USAGE

AmmoniaFIX should be applied as a slurry over the waterbody to be treated. This can be best accomplished using water soluble packs or a venturi style sprayer system with a hopper for mixing the product and an intake for taking in water for the mix. Covering the maximum amount of waterbody surface or mixing is key to achieving optimal results. The amount needed for application is dependent on the amount of Ammonia needing to be removed. Follow Table 1.1 for dosage quantities.

Note: 'Expedited Results' results from studies showing that as the dosage of AmmoniaFIX increases, time for the waterbody to reach 0 mg/L of ammonia reduces. If a situation arises requiring rapid results, it is recommended to follow this column instead of the standard dosage.

EnviroDEFENSE® AmmoniaFix™

Table 1.1

Treatment Volume (L)	Initial Concentration (mg/L N-NH3)	AmmoniaFIX Required (kg)	Expedited Results (kg)
250,000	0.5	1	5
	2	4	20
500,000	0.5	2	10
	2	8	40
1,000,000	0.5	4	20
	2	16	80
5,000,000	0.5	20	100
	2	80	400

PACKAGE SIZE

Item Number: ED 0210.1

- Bulk Powder
- Water Soluble Packs

STORAGE

EnviroDEFENSE® AmmoniaFix should not be stored in direct sunlight or in temperatures in excess of 100°F. Avoid storage in areas with strong oxidizers or poor ventilation.

Please refer to the Safety Data Sheet (SDS) for proper handling procedures.

SHELF LIFE

The EnviroDEFENSE® AmmoniaFix products are stable for a minimum of 24 months

SAFETY & HANDLING

AmmoniaFix has a blend of microorganisms rated as Biosafety Risk Group 1 as defined by organizations such as the CDC and NIH. For detailed handling information, please refer to the appropriate Safety Data Sheet.

Avoid excessive skin contact with concentrate. Wash hands thoroughly with warm, soapy water after contact. Avoid contact with eyes.

TECHNICAL SERVICE

The technical service team at JBMbio can provide custom solutions and recommendations.