

Formula Nitro

Bacteria Based Nitrification Aid

For Ammonia Reduction in WWTPs

NITRIFICATION

Municipal wastewater contains nitrogen that usually is not removed by secondary treatment. This nitrogen in the form of ammonia can increase the BOD or cause excessive algae growth if it is discharged into lakes, streams or estuary waters. This ammonia in the wastewater effluent may also be toxic to aquatic life.

Additional biological treatment can occur beyond the secondary stage when nitrifying bacteria in the wastewater convert ammonia to the non-toxic nitrate through nitrification. This process is often sufficient to remove the toxicity caused by the ammonia in the effluent.

Too much nitrate in the effluent can be a problem because it is also a nutrient. Excess nitrate in the water can contribute to an uncontrolled growth of algae. The denitrification process converts nitrate to nitrogen gas. The release of nitrogen into the atmosphere does not cause any environmental harm.

Formula Nitro reinforces the bacteria that are already in the wastewater and increases the removal of ammonia, nitrite and nitrate.



Features:

- Industrial strength
- Liquid bacteria formulation
- Contains a consortium of naturally occurring bacteria
- Lives and reproduces in an environment containing no "free" or dissolved oxygen
- Available in 1-gallon jug (Product# 132825) , 5-gallon pail (Product# 132825) and 55-gallon drum (Product# 1328255)

Benefits:

- Reduces ammonia levels, nitrate and nitrite in wastewater
- Reinforces the bacteria that are already in the wastewater

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Dosage Schedule

Flow Rate	Initial Dosage	Maintenance**
Up to 5,000 GDP	½ quart per day for 2 days	1 quart per week
Up to 50,000 GDP	2 quarts*	2 quarts per week
Up to 250,000 GDP	1 gallon*	1 quart per day
Up to 500,000 GDP	1 ½ gallons*	1 quart per day
Up to 1 MGD	2 ½ gallons*	1 quart per day
Up to 5 MGD	2 gallons per MGD*	1 quart per day
Up to 12 MGD	2 gallons per MGD*	2 quarts per MGD per day
Up to 100 MGD	2 gallons per MGD*	1 gallon per MGD per day

*Apply this amount in one dosage.

**Add as regularly as possible. If a day is missed, add that day's product with the next dosage.

The rates above are for a typical, well maintained system.