MICROBE-LIFT® Sludge Remover and Nitrifiers

SA SLUDGE-AWAY

Sludge Away is formulated specifically for the removal of organic bottom solids that are slow to degrade. Works faster at warm water temperatures, however may be used effectively at any temperature year - round.

Recommended for use with all MICROBE-LIFT bacteria and enzyme products. Provides "rapid & natural sludge and muck removal". 80% faster than competitive products. Binds phosphate. Helps improve pond clarity. 100% natural active ingredients. Disperses quickly. Organic and microbial based.

SIZE	ITEM #	TREATS	APPLICATION RATE
32 OZ.	MLXSAQ	500 GAL POND - 6.5 WKS.	1 oz. per 100 gals. of pond water every week until sludge is eliminated
GALLON	MLXSAG4	2,500 GAL POND - 5 WKS.	
GALLON	MLXSAG6	2,500 GAL POND - 5 WKS.	
5 GALLONS	MLXSA5G	5,000 GAL POND - 12 WKS.	Maintenance: Treat with MICROBE-LIFT/SA monthly or as necessary thereafter
32 OZ.	SA32F	500 GAL POND - 6.5 WKS.	BILINGUAL FRENCH & ENGLISH PACKAGING

NITE-OUT II
Specially Formulated for Rapid Ammonia & Nitrite Reduction

MICROBE-LIFT Nite-Out II is designed specifically for ponds that contain aquatic life. Its highly specialized microbial consortium of nitrifying cultures are specially formulated to eliminate ammonia via a natural biological process termed nitrification. The cultures contained in MICROBE-LIFT Nite-Out II will establish, promote or stabilize and maintain nitrification in pond waters, eliminating the toxic effect of ammonia.

MICROBE-LIFT Nite-Out II liquid nitrifying bacteria contains select strains of Nitrosomonas, Nitrospira and Nitrobacter. Nitrosomonas convert ammonia to nitrite and Nitrobacter and Nitrospira convert nitrite to nitrate.

NITRIFICATION

Nitrosomonas sp. Nitrobacter sp.

$NH_3 \rightarrow NO_2 \rightarrow NO_3$

Ammonia Nitrite Nitrate

- Initiates nitrification
- Promotes stable nitrification
- Provides stable cold weather nitrification
- Safe for use around plants and animals

ML/NITE-OUT II comprises select microorganisms that are autotrophic - able to use carbon dioxide as the sole source of carbon - and are relatively slow-growing, requiring specific conditions for optimum growth with typical cell division rates from 8-16 hours. Their performance and rate of growth are impacted by the environmental parameters required for nitrification. They are also highly oxygen-sensitive, requiring high dissolved oxygen levels (greater that 2 mg/L) to achieve maximum growth rates. Nitrite is produced by beneficial bacteria in the pond and the oxidation of harmful waste ammonia excreted by fish. Even though nitrite is not as toxic as ammonia, it is still very damaging to the health of fish.

SIZE	ITEM #	TREATS	APPLICATION RATE			
			Pond Vol (Gals.)	1st App (Purge)	Next 4 Wks (1 x wkly)	Maintenance (1 x monthly)
16 OZ.	NITE16	500 GAL POND - 14 MOS.	80-500	1 oz.	0.5 oz.	1 oz.
32 OZ.	NITE32	2,500 GAL POND - 5 MOS.	501-2,500	5 oz.	2.5 oz.	5 oz.
GALLON	NITEGAL	5,000 GAL POND - 11 MOS.	2,501-5,000	10 oz.	5 oz.	10 oz.
16 OZ.	NITE16F	500 GAL POND - 14 MOS.	BILINGUAL FRENCH & ENGLISH PACKAGING			
32 OZ.	NITE32F	2,500 GAL POND - 5 MOS.				
GALLON	NITEG1F	5,000 GAL POND - 11 MOS.				

Use with MICROBE-LIFT/PL for quick cycling of ponds!

Shelf life 12-18 months