

Cold weather conditions can inhibit nitrification. MICROCAT products can help.

Under toxic and/or cold-weather conditions, the growth rate of natural nitrifying populations tends to slow appreciably, allowing ammonia to pass through the system. MICROCAT-XNL synergistically combines the capability of several natural ammonia-oxidizing microbial strains for reseeding nitrifying systems and enhancing performance under toxic, inhibitory or cold-weather conditions. When used on a preventive maintenance basis, MICROCAT-XNL can improve the consistency of ongoing nitrification and improve overall system performance. MICROCAT-XNL is formulated specifically for use by the chemical, food processing, petroleum refining, primary metals, textile and related industries and for use in municipal plants receiving wastes containing ammonia.

Features

- Natural, biological products
- Easy to use, safe to handle
- Complete product line for various uses
- Environmentally friendly & sustainable
- Proven performance

Benefits

- Save time & money
- Meet effluent permit requirements
- Offset toxicity events
- Improve nitrification during winter
- More efficient plant operation

Contact us for a free assessment.





MICROCAT-XNL & MICROCAT-XNC are a liquid suspension of preselected, adapted nitrosomonas an nitrobacter microbial strains for use in biological wastewater treatment plants receiving wastes containing ammonia. MICROCAT-XNL is a non-refrigerated liquid, and MICROCAT-XNC is a refrigerated slurry concentrate.

APPLICATION: Under toxic and/or cold-weather conditions, the growth rate of natural nitrifying populations tends to slow appreciably, allowing ammonia to pass through the system. MICROCAT-XNL synergistically combines the capability of several natural ammonia-oxidizing microbial strains for reseeding nitrifying systems and enhancing performance under toxic, inhibitory or cold-weather conditions. When used on a preventive maintenance basis, MICROCAT-XNL can improve the consistency of ongoing nitrification and improve overall system performance.

DIRECTIONS: MICROCAT-XNL is metered directly to the aeration zone of the waste treatment plant on a preventive maintenance basis. Application programs range from about 30 gallons per MGD per day to one gallon per MGD per day. Your Bioscience, Inc. Technical Representative will provide you with a custom-tailored application program to fit the specific needs of your treatment system. MICROCAT-XNC is used at rates 1/10 or 1/20 those for XNL, saving shipping and handling costs.

PRODUCT CHARACTERISTICS:

Appearance: Non-viscous, liquid suspension Contents: Specialized, preselected microorganisms **OPTIMUM APPLICATION CONDITIONS:** For best results, apply product under the following conditions:

Condition	Range	Optimum
DO (ppm)	>1	>2
Ph	6.5-9	7.5-8.0
Temp (°F)	45-105	68-86
Heavy Metals (ppm)	< 0.1	None
Toxic Organics (ppm)	Trace	None
Alkalinity (ppm as CaCO₃)	>40	>100

STORAGE: Store between 45°F and 105°F in a dry location. DO NOT FREEZE.

HANDLING: Avoid inhalation of liquid mist. Avoid exposing skin to strong solution as irritation may result. If material contacts skin or eyes, flush thoroughly and repeatedly with water.

DISPOSAL: Dispose of contents and container in accordance with all local, state, and federal regulations.

PACKAGING:

XNL: 5 gallon pail, 55 gallon drum XNC: 1 gallon bottles (refrigerated)

See Safety Data Sheet for detailed use and safety information.

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