

microSTIM™ 700

CONCENTRATED BIO-AUGMENTER FOR WASTEWATER TREATMENT

GENERAL DESCRIPTION

microSTIM™ 700 is an all natural concentrated proprietary formula developed incorporating a unique blend of over 30 natural trace minerals, bio-activators (bacterial stimulators) and toxin renovators. microSTIM™ 700 represents the newest generation of natural bio-augmentation for the treatment of wastewater systems, digesters and lagoons. microSTIM™ 700 contains no bacteria, enzymes or surfactants, but rather acts to tie up harmful system toxins causing a reduction in the bio-availability of these contaminants and freeing naturally occurring microbial activity to function at optimal rates thereby elevating both the rate and efficiency of organics break-down and odour reduction. Contains proprietary additives to actively reduce H₂S levels and associated gas/odour levels. microSTIM™ 700 provides positive stimulation ("Bio-Boosters") of the naturally occurring system bacterial activity, particularly those being negatively effected by the harmful toxins. microSTIM™ 700 reduces system organics and odour conditions, maintaining an active microbial population without harm to wastewater treatment facilities or equipment.

AREAS OF APPLICATION

Highly effective for wastewater treatment programs at municipal and industrial facilities including activated sludge treatment facilities, aerobic, anaerobic and facultative lagoons as well as aerobic and anaerobic digesters. microSTIM™ 700 ties up harmful toxins freeing naturally occurring bacteria to function at maximum levels thereby increasing natural organic degradation activity. Excellent for the control of organic build-ups and malodors in wastewater through the reduction of system contaminates, bio-stimulation, and simultaneous nutrient augmentation of natural bacterial activity.

SPECIAL FEATURES

Highly Effective - microSTIM™ 700 is truly a leap forward in the augmentation of wastewater treatment biodegradation.

- Increased microbial growth
- Reduces biosolids accumulations
- Accelerates bio-digestion of solids
- Reduces oils, grease, fats and organics
- Improvements in system stability and effluent quality
- Reduction of oxygen demand
- Increased sludge removal capabilities
- Improved sludge characteristics and dewaterability
- Reduces malodor conditions

Increases Natural Biological Activity - microSTIM™ 700 optimizes the bio-chemical balance in wastewater, freeing naturally occurring bacteria to function at optimal rates. microSTIM™ 700 does its job and frees the bacteria to do theirs.

System Safe - microSTIM™ 700 has no negative impact on downstream operations and biodegrades completely in normal wastewater treatment processes. microSTIM™ 700 contains no bacteria, enzymes or surfactants, is not corrosive and is not regulated.

No Special Equipment Required - no special equipment is needed to dispense microSTIM™ 700. No need for specialized tanks, pumps or chemical resistant piping.

High In-Use Economy - microSTIM™ 700 is a breakthrough in the economic treatment of wastewater. Low chemical addition rates coupled with high rate of effectiveness and catalytic effects on existing system microbes provides low in-use treatment costs. Although microSTIM™ 700 offers low cost compared to competitive treatments, efficacy is its greatest benefit. Reduced sludge handling costs offer additional savings. microSTIM™ 700 is an extremely cost effective, simple, natural solution to wastewater treatment.

Low Toxicity - formulated using all natural ingredients. microSTIM™ 700 contains no bacteria, enzymes or surfactants, is not corrosive and is not regulated. Reduces use of harmful chemicals and lessens offensive odours. Helps create an "earth friendly" treatment environment as well as higher personnel use acceptance.

Long Term Solution - continuous treatment with microSTIM™ 700 ensures long term maximum efficiency and optimum conditions throughout the entire wastewater system.

USE DIRECTIONS

MUNICIPAL TREATMENT PLANTS

INITIAL DOSE: Manually add 10 litres per 200,000 gallons (900,000 litres) wastewater in each aeration cell to assure even distribution.

MAINTENANCE: Add at a rate of 1L per 30 to 40 m³ of influent sludge.

AEROBIC, ANAEROBIC DIGESTERS

Introduce into influent pipe of the digester or at the sludge recycling center.

INITIAL DOSE: Add 10 litres per 200,000 gallons (900,000 litres) of digester capacity.

MAINTENANCE: Add at a rate of 3 to 5 ppm per day (1 mL per resident per day OR 1L per 1,000 residents per day).

FACULTATIVE LAGOON TREATMENT

Actual sludge level measurements should be used to establish correct rate of application.

MUNICIPAL LAGOONS

INITIAL DOSE: Add 10 litres per 100,000 gallons (450,000 litres) of lagoon capacity.

MAINTENANCE: Add at a rate of 3 to 5 ppm per day (1 mL per resident per day OR 1L per 1,000 residents per day)

AGRICULTURAL LAGOONS

INITIAL DOSE: Add 20 litres per 100,000 gallons (450,000 litres) of lagoon capacity.

MAINTENANCE: Add at a rate of 10 litres per 100,000 gallons (450,000 litres) of lagoon capacity following each cleanout.

NOTE: Optimal dosage varies depending on application, the organic concentration and test parameters of the wastewater.

PHYSICAL PROPERTIES - LIQUID

microSTIM™ 700 is a blend of essential trace minerals, bio-active additives and toxin renovators.

Type	Wastewater Treatment Augmenter
Appearance	Brown/Black Liquid
Odour	Slight Sweet Aromatic
Flammability	Non-Flammable
Specific Gravity (@25°C)	0.89
pH (concentrate)	9.0
Solubility in Water	Complete
Toxicity (concentrate)	Low; Eye/Skin Irritant
	Avoid Ingestion

APPROVALS/CERTIFICATIONS



Enviro-Gard Product

FOR USE IN INDUSTRIAL, INSTITUTIONAL, MARINE AND COMMERCIAL ENVIRONMENTS

PACKAGING

1100 L Totes; 210 L Drums; 23 L Pails

EXCLUSIVELY IMPORTED and DISTRIBUTED for Southern Africa

by **ENVIRO-LAB** a division of VitaCure Investments

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