

Micronutrient Bacterial Booster

Description

Proper biological activity is often a function of the nutrients available to sustain and develop healthy biological populations.

913 is designed to provide the essential micronutrients to supplement bacteria's basic metabolic needs. 913 fulfills the micronutrient need in both the aerobic and anaerobic environments. The components of 913 are all natural and non-processed, readily soluble components.

In waste treatment facilities where results are vital, and where nutrient deficiencies are present, 913 is proven at increasing and sustaining bacterial activity.

Effect

913 saves time and money for industrial, commercial and municipal wastewater systems by:

- Sustaining and accelerating biological activity in situations where incoming BOD's are unpredictable.
- Plant start-up.
- Anaerobic digester start-up.

Biological Nutrients and Stimulants

Benefits of 913:

- Stabilize biological populations in toxic and nutrient deficient conditions
- Reduce plant sensitivity to events which may otherwise cause upset
- Aids for smooth plant start up
- Controls foaming and bulking caused by nutrient deficient conditions
- Works in aerobic and anaerobic environments

913

**When results are vital
Aerobically
Anaerobically**



913 Constituents Include:

Mineral Composition

Antimony	Copper	Phosphorus
Barium	Flourine	Potassium
Beryllium	Germanium	Selenium
Bismuth	Iodine	Silicon
Boron	Iron	Sodium
Bromine	Magnesium	Sulpher
Calcium	Manganese	Zinc
Chlorine	Molybdenum	
Cobolt	Nitrogen	

Vitamin Composition

Absorbic Acid	Folinic acid
B12	Niacin
Biotin	Riboflavin
Carotene	Thiamin
Folic acid	Tocopherols

Carbohydrate Composition

Aliginic acid
Laminarin
Mannitol
Methylpentosans
Undefined Sugars

Amino Acid Composition

Alanine	Glycine	Proline
Amide N	Histidine	Serine
Arginine	Isoleucine	Threonine
Aspartic acid	Leucine	Tryptophan
Cystine	Lysine	Tyrosine
Glutamic acid	Phenylalanine	
Valine + Methionine		

Micronutrient Bacterial Booster



Specifications

Form: Free-flowing granular powder
Color: Dark Green
Specific Gravity: 0.7 g/cc

Packaging

1 or ½ lb water soluble pouches protected by a resealable overwrap. 25 lbs. per plastic pail.

Storage

DO NOT FREEZE! Store in a cool dry location. Do not inhale dusts, avoid excessive skin contact. SEE M.S.D.S.

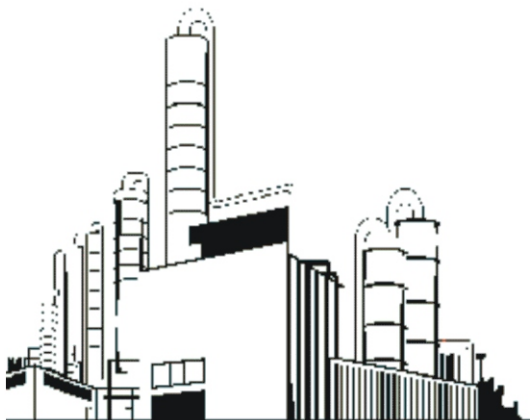
Application Instructions

Application rates can be provided by a qualified Waste Water Specialist. Application rates and locations depend on plant type, type of deposits and wastes existing in the treatment operations and current biological conditions.

Our general recommended guidelines are to use 1 lb. of 913 Nutrients to 1000 lb. BOD.

Custom Blends are Available!

913 may also be blended with specialized micronutrients to meet customer specifications.



Case History 1123

A Canadian Pulp and Paper mill was suffering from toxic loadings in an already overloaded system. Poor settling and high TSS numbers were only the beginning of their problems. The plant turned to us for help.

Our product was added on June 23rd, 2000 on a daily basis. TSS levels at the start of the program were up around 168 mg/l. The plant experienced a noticeable improvement on July 26th - only 4 weeks later. By the end of the 60 day trial, TSS levels had dropped to around 47 mg/l!



Case History 438

This Midwestern plant receives influent from various industrial sectors as well as some domestic waste. With consistently low Food-to-Microbe ratios (F/M), the plant was experiencing foaming problems and slime-induced bulking. This client was amazed at the results seen after only 10 days of using 913. The nutrient formulation allowed his bug population to grow, dramatically improving plant operation.



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