

# Specimen Label

## Micro 108

### Soluble Biological Inoculant

- \* Enhances plant vitality.
- \* Encourages more vigorous root systems.
- \* For Greenhouse, Nursery, Agriculture and Turf Grass Use.

#### Active Ingredients:

Streptomyces lydicus strain WYEC 108\* .....00.0371%

Other Ingredients: .....99.9629%

\*CONTAINS NONPLANT FOOD INGREDIENT: Soil inoculant

Micro 108™ contains the inoculant microorganism

Streptomyces lydicus WYEC 108\* (1 X 10<sup>7</sup> cfu per gram)

\*U.S. Patent No. 5,403,584 and Canadian Patent No. 2,166,096

Information regarding the contents and levels of metals in this product is available on the internet at: <http://www.aapfco.org/metals.htm>

KEEP OUT OF REACH OF CHILDREN

#### CAUTION

Avoid creating dust. Breathing dust may be harmful to your health. Use with adequate ventilation or respiratory protection.

**Intended Uses:** Micro 108® Soluble Inoculant is an inoculant for use in soil applications (drench and in furrow) and foliar applications in or on all raw agricultural commodities, food and fiber crops, ornamentals, turf grass, landscape plants, including tree seedlings for transplanting to the forest. Micro 108® can be used in all indoor and outdoor growing areas.

#### APPLICATION DIRECTIONS:

##### Greenhouses and Nurseries:

Dissolve 6 oz. in 100 gallons. One gallon of solution should be applied to 1 cubic foot of mix. (Check your Potting Mix Guide for 'number of containers per cubic foot' to determine ounces for your specific size container. For example: Filing 6" azalea pots, you get 18 pots per cubic foot of mix, therefore, 1 gallon (128 oz.) divided by 18 pots = 7 – 8 oz. per pot. One container of Actinovate™ Soluble will treat approximately 5,000 6" pots.)

##### Agricultural Field Crops:

Application Rate & Frequency:

**Soil Drench:** Use 3-12 oz of Micro 108™ dissolved in an appropriate amount of water per acre. Apply as a soil drench, transplant dip or through irrigation to the area immediately surrounding the roots or seeds. Apply until soil around seed or root ball of plant is saturated without creating a run off. Apply every 14-90 days depending on environmental conditions and dosage level.

**Spray:** Use 3-12 oz per acre dissolved in an appropriate amount of water (50-160 gallons). Apply as a spray to all areas of plant and top soil. For best results use a spreader-sticker. Please consult manufacturer for recommendations. For best results set spray equipment to 50 psi or less.

##### Turf Grass:

Mix Micro 108™ with appropriate amount of water (150-200 gallons per acre). Apply as a drench at a rate of 18 oz. of Micro 108™ Soluble per 1/3 acre for initial application of problem areas. Maintenance applications of 18 oz. per acre every 6 to 8 weeks is recommended. For best results use with wetting agent appropriate for moving solution to roots of the particular type of turf grass that is being treated.

#### STORAGE AND DISPOSAL

Storage: Do not store in extremely high temperatures (above 130°F).

Disposal: Completely empty container. Then dispose of empty bag in a sanitary landfill or by incineration or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

#### LIMITED WARRANTY/DISCLAIMER

Manufacturer warrants that this product is suited for the labeled use when applied according to label directions. Manufacturer makes no warranty of merchantability. There are no warranties that extend beyond the description on the face hereof and in no event shall manufacturer be liable for any consequential damages.

Manufactured by:

Natural Industries, Inc.

6223 Theall Road Houston, Texas 77066 (888) 261-4731

Net Weight: 18 oz ( 504 gr)

#### MATERIAL SAFETY DATA SHEET

##### Micro 108® Soluble

#### I. PRODUCT INFORMATION

Chemical Formulation: N/A.  
Common Name: Micro 108  
Molecular Weight: N/A

#### II. PHYSICAL PROPERTIES

Bulk Density: 5.5  
Solubility in H<sub>2</sub>O: 100% soluble  
pH (apparent): 8.3  
Appearance: pale white  
Odor: slight odor of rich soil  
Boiling Point (degC): N/A  
Melting Point (degC): N/A  
Evaporation Rate: N/A  
Vapor Pressure: N/A

#### III. INGREDIENTS

Components	% Range
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Whey	>99
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Streptomyces Lydicus

WYEC 108

<1

#### IV. HEALTH AND HAZARD INFORMATION

A. Toxicity: none  
B. Carcinogenicity: N/A not listed by NTP, LARC, OSHA, ACGIH, ORHOSH  
C. Primary Route(s) of Exposure: Skin Contact, Ingestion  
D. Health Effects of Over Exposure:  
1. Inhalation: Nasal Irritation  
2. Ingestion: Irritation of mucous membranes.  
3. Skin: No negative side effects. Wash with soap and water.  
4. Eyes: Slight irritation may occur. Flush with water.  
E. Emergency and First Aid Measures:

1. Inhalation: Flush nose with water  
2. Ingestion: Induce vomiting; consult physician  
3. Skin: Wash with soap and water.  
4. Eyes: Flush with water for five minutes

#### V. FIRE AND EXPLOSION DATA

A. Fire: Not considered a fire hazard.  
B. Explosion: Not considered an explosion hazard.  
C. Fire Extinguishing Media: Water, CO<sub>2</sub>, or dry chemicals may be used.  
D. Precautions: No precautions are necessary under normal conditions of use. As with any dust avoid high concentrations

#### VI. PERSONAL PROTECTIVE GEAR

A. Eyes and Face: Though not necessary, safety glasses may be worn.  
B. Respiratory: No respirator is required under normal conditions of use.  
C. Skin: Though not necessary, gloves may be worn.  
D. Shoes: Safety shoes are not necessary.

#### VII. STORAGE AND HANDLING

Actinovate Plus/M may be stored in all types of containers made of various materials of construction. Avoid contact with strong oxidizing agents.

#### VIII. SHIPPING INFORMATION

A. DOT Shipping Name: None  
B. DOT Hazard Class: None  
C. DOT Category: None  
E. Reportable Qualities (RQ): None  
F. HMIS: Personal Protective Code - A (Safety Glasses)  
G. NFPA Rating: 0 (Health) - 0 (Flammability) - 0 (Reactivity)

#### IX. ENVIRONMENTAL PROTECTION PROCEDURES

A. Spill Response: No negative environmental impact. No special cleanup requirements  
B. Waste Disposal: No negative environmental impact. No special preparation required for disposal.

This information presented in this Materials Safety Data Sheet (MSDS) is subject to revisions and is not all inclusive, but represented as the best information available to date. This information was drawn from recognized sources, believed to be reliable. However, Natural Industries, Inc. will not be responsible for damages of any kind resulting from the use or reliance upon such information. The product discussed is sold without warranty, expressed or implied, and upon conditions that purchasers shall perform their own verification and testing to determine its suitability for a particular purpose.

Prepared by: Fred Sims Effective Date: February 16, 1998  
Revisions: William Kowalski