

MATERIAL SAFETY DATA SHEET
Action-Iron® Agricultural Mineral & Soil Inoculant

I. PRODUCT INFORMATION

Chemical Formulation: N/A. Action-Iron® is a byproduct from drinking water production and consists of non hazardous, natural occurring organic components like remnants of decayed vegetation.

Common Name: Action-Iron

Molecular Weight: N/A

II. PHYSICAL PROPERTIES

Bulk Density: 55-65lbs/ft3

Solubility in H2O: none

pH (apparent): 5.0-6.5

Appearance: dark chocolate brown

Odor: slight peat aroma

Boiling Point (degC): N/A

Melting Point (degC): N/A

Evaporation Rate: N/A

Vapor Pressure: N/A

III. INGREDIENTS

<u>Components</u>	<u>% Range</u>
Humic Matter	40-70
Iron	15
Water	0-40
<i>Streptomyces lydicus</i> strain WYEC 108	<1

IV. HEALTH AND HAZARD INFORMATION

A. Toxicity: none

B. Carcinogenicity: N/A not listed by NTP, LARC, OSHA, ACGIH, ORHIOSH

C. Primary Route(s) of Exposure: Skin Contact, Ingestion

D: Health Effects of Over Exposure:

- Inhalation: Nasal Irritation
- Ingestion: Irritation of mucous membranes.
- Skin: No negative side effects. Wash with soap and water.
- Eyes: Slight irritation may occur. Flush with water.

E. Emergency and First Aid Measures:

- Inhalation: Flush nose with water
- Ingestion: Induce vomiting; consult physician
- Skin: Wash with soap and water.
- 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, CO2, or dry chemicals may be used.

D. Precautions: No precautions are necessary under normal conditions of use.

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

Actino-Iron® may be stored in all types of containers made of various materials of construction.

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