

Material Safety Data Sheet
May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be consulted
for specific requirements.

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (As Used on Label and List)
Bonide Liquid Iron + micronutrients Concentrate

ID No. 299
Date: October 5, 2010

Section I

Bonide Products, Inc.
6301 Sutliff Road
Oriskany, NY 13424

(800) 424-9300
(315) 736-8231

Section II - Hazardous Ingredients/Identity

Hazardous Components (Specific Chemical Identity: Common Name(s)) OSHA PEL ACGIH TLV Other Limits % (Optional)
No Hazardous Components are in mixture.

Contains the following water soluble metals

Magnesium	.50%
Boron	.02%
Copper	.25%
Iron	5.00%
Manganese	.25%
Zinc	.50%

**CAUTION: Harmful if swallowed. Avoid contact with eyes, skin and clothing avoid breathing spray mist.
Do not apply to any area not specified on label.**

Section III - Fire and Explosion Hazard Data

FLASH POINT (Closed cup) Range: N/A EXPLOSION LIMIT (%): LOWER: N/A UPPER: N/A
AUTO IGNITION TEMPERATURE: N/A FLAMMABLE LIMITS IN AIR,% BY VOLUME: N/A
EXTINGUISHING MEDIA: Foam, CO2, Dry Chemical, Water. LARGE FIRES: Water, Spray/Fog/Foam.
SPECIAL FIRE FIGHTING PROCEDURES: None. Apparatus and full protective clothing. Fight fire from
maximum distance. Isolate hazard area and deny entry. Stay up wind, keep out of low areas.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None

Section IV - Health Hazard Information

ACUTE ORAL LD50: N/A ACUTE DERMAL LD50: N/A CHRONIC EFFECTS: None are known
PRIMARY DERMAL IRRITATION: Contact may cause skin irritation
PRIMARY EYE IRRITATION: Contact may cause eye burns. INHALATION 4 HR LC50: N/A
EMERGENCY AND FIRST AID PROCEDURES: EYES: Flush contaminating chemical from eyes with copious
amounts of clean water for 10-15 minutes. SKIN: Bathe and shampoo with soap and water to remove chemicals
from skin and hair. INHALATION: If inhaled, move to fresh air and call emergency medical care immediately.
ORAL: Consult a physician if swallowed.
NOTES TO PHYSICIAN: Keep victim quiet and maintain normal body temperature.

Section V- Reactivity Information

MATERIAL REACTS VIOLENTLY WITH: N/A
HAZARDOUS DECOMPOSITION PRODUCTS: N/A
HAZARDOUS POLYMERIZATION: Will not occur
INCOMPATIBILITY: Strong bases

Section VI - Handling & Storage

STORAGE Keep from freezing, store in original container in a locked storage area inaccessible to children and pets. Protective equipment should be used in the manufacture of formulation of this product, including the following: Practice good hygiene – wash thoroughly exposed areas before eating drinking or smoking.
 RESPIRATORY PROTECTION: Respiratory protection is not required for normal use.
 VENTILATION: Good ventilation of work place is essential
 PROTECTIVE CLOTHING: Rubber gloves and full protective clothing
 EYE PROTECTION: Goggles or glasses

Section VII - Physical Data

BOILING POINT: 760 mm/hg: 250°F SPECIFIC GRAVITY(H₂O=1): 1.32 ODOR: Odorless
 CVISCOSITY: > 1 CP at 25°C. MELTING POINT: N/A pH: 2.0-2.5
 VAPOR DENSITY (AIR=1): > 1 FREEZING POINT: 0°F APPEARANCE: Green Liquid
 %VOLATILES BY VOLUME: 50 DENSITY AT 20C: 11 lbs/gal. SOLUBILITY IN WATER: 100 %
 OCTANOL/PARTITION COEF: N/A VAPOR PRESSURE (mm Hg): < 17mm/hg at 25°
 EVAPORATION RATE(Butyl Acetate=1): < 1

Section VIII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled:

SMALL SPILL: Do not touch spilled product. Wear hand gloves and protect clothing. Contain spill with Dri-Rite/Sand/Non-combustible absorbent - collect into dot drums/cover/mark and remove. Flush area with water, if possible.

LARGE SPILL: Do not touch spilled product. Wear hand gloves and protective clothing/shoes, self-contained breathing apparatus. Dike far ahead of spill for later disposal. Contain spill with Dri-Rite/Sand/Non-combustible absorbent - collect into dot drums/cover/mark and remove. Wash area with water.

WASTE DISPOSAL METHODS: RCRA ID. NO.: None RQ: None

Dispose of dot drum, waste water and any other waste according to EPA approved methods.

Section IX - Disposal

DISPOSAL STATEMENTS:

CONTAINER DISPOSAL: Do not reuse empty container. Rinse thoroughly before discarding in trash.

NOTE: Ferromec is corrosive to mild steel, aluminum, and brass, and must be stored and/or shipped in fiberglass/polypropylene, or stainless steel. Use only stainless steel or P.V.C. fittings.

KEEP OUT OF REACH OF CHILDREN

ABBREVIATION KEY

N/A: NOT AVAILABLE OR APPLICABLE

N/E: NOT ESTABLISHED

TLV: THRESHOLD LIMIT VALUE

TWA: TIME WEIGHTED AVG./8 HOUR WORKDAY

STEL: SHORT TERM EXPOSURE LIMIT

D.O.T.: DEPARTMENT OF TRANSPORTATION

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.