

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 RTS**

**ID No. 298**  
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 (H<sub>2</sub>O=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

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