

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 Plant Starter 3-10-3

**ID #**

Date: May 8, 2007

### 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)
Total Nitrogen				3%
2.1% Ammoniacal Nitrogen				
.9 Nitrate Nitrogen				
Available Phosphate (P <sub>2</sub> O <sub>5</sub> )				10%
Soluble Potash (K <sub>2</sub> O)				3%
(Derived from Ammonium Phosphate and Nitrate of Potash)				

### Section III - Physical/Chemical Ingredients

BOILING POINT: > 212° F                      pH: 6-7.5  
SPECIFIC GRAVITY: 1.16 (9.74 lbs/gal)        DENSITY: NA  
VAPOR PRESSURE: NA                            VAPOR DENSITY: NA  
SOLUBILITY IN WATER: soluble                EVAPORATION RATE: NA  
APPEARANCE AND ODOR: Blue liquid. Characteristic mild fertilizer odor.

### Section IV - Fire and Explosion Data

FLASHPOINT: Not flammable                      FLAMMABLE LIMITS: NA  
EXTINGUISHING MEDIA: Use water or other agent suitable for surrounding fire.  
SPECIAL FIRE FIGHTING PROCEDURES: Wear full protective clothing and self-contained breathing apparatus.  
UNUSUAL FIRE AND EXPLOSION HAZARDS: Contain runoff from bodies of water, rivers, streams and lakes.

### Section V - Reactivity Data

CONDITIONS TO AVOID: Excessive Heat (greater than 212°F)  
INCOMPATIBILITY: None known  
HAZARDOUS POLYMERIZATION: Will not occur.

### Section VI - Personal Protection Information

RESPIRATORY PROTECTION: Not generally required; Best practice to use in well ventilated area.  
EYE PROTECTION: Safety glasses with side shields, goggles, or faceshield are recommended.  
SKIN PROTECTION: Long sleeves, impervious gloves

### Section VI - Health Hazard Information

ROUTES OF ENTRY: Ingestion, inhalation, eyes and skin contact. May be harmful if swallowed or inhaled. May cause irritation of eyes, nasal passages, throat and skin.  
EMERGENCY AND FIRST AID PROCEDURES: Call a physician immediately in all cases of suspected poisoning.  
INGESTION: Do not induce vomiting, as potential aspiration may induce chemical pneumonia.  
EYES: Flush with running water for at least 15 minutes while holding eyelids open. If irritation persists, get medical attention.

## Section VI - Health Hazard Information (cont.)

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**SKIN:** Remove all contaminated clothing. Wash skin and hair thoroughly with soap and water. Wash clothing before reuse. If irritation persists, get medical attention.

**INHALATION:** Remove to fresh air. If irritation persists, get medical attention. **MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** None known. Preexisting skin or respiratory disorders may be aggravated by excessive exposure to this material. **POTENTIAL CARCINOGEN STATUS:** Tests on laboratory animals with highly-refined oils such as those contained in this product have shown no evidence of carcinogenicity.

## Section VII - Precautions for Safe Handling/Use

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**HANDLING AND STORAGE:** Keep out of the reach of children. Always practice good hygiene when handling this or any chemical. Wash thoroughly with soap and water any exposed areas. Store in a cool, dry place away from children, domestic animals, food, feed products and water sources. Do not contaminate other stored products or the storage area by handling or storage of this product. Immediately clean up any spills, which occur during handling and storage.

**OTHER PRECAUTIONS:** Do not contaminate water supplies by handling or storage of product, cleaning of equipment or disposal of wastes. Keep work and storage areas clean. Read and follow precautionary measures on product label.

**RESPIRATORY PROTECTION (Specify type):** Not normally required. If vapors may exceed acceptable levels, wear MSHA/NIOSH-approved respirator or mask to protect against pesticide dusts, mists and vapors.

**VENTILATION:**

**LOCAL EXHAUST:** Not normally required      **SPECIAL:** Not normally required

**MECHANICAL (General):** Not normally required. Use if ventilation is not adequate.

**OTHER:** Work in a well-ventilated area

**PROTECTIVE GLOVES:** Work gloves or impervious gloves. If prolonged exposure cannot be avoided, wear impervious gloves.

**EYE PROTECTION:** None normally required; follow local work rules. Chemical goggles or shielded safety glasses recommended for prolonged or repeated exposure.

**OTHER PROTECTIVE EQUIPMENT:** Wear clothing consistent with good practices for handling and applying fertilizers. Wash contaminated clothing thoroughly before reuse.

## Section VIII - Environmental and Disposal Information

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**SPILL OR LEAK PROCEDURES:** Contain spill; absorb liquids by covering with clay or other absorbent material; vacuum, scoop or sweep up wastes and place in container for disposal. Keep from water sources.

**WASTE DISPOSAL METHOD:** Material, which cannot be used at the site, should be disposed of in an approved waste disposal facility following all applicable Federal, State and local regulations. Triple rinse empty containers and offer for recycling or reconditioning, or puncture and dispose of in an approved sanitary landfill. Do not contaminate water supplies by disposal of wastes or containers. Do not flush in sewers.

**NOTICE:** This information is believed to be accurate and reliable. However, no guarantee expressed or implied is made with respect to the information contained herein.

**KEEP OUT OF REACH OF CHILDREN**

### ABBREVIATION KEY

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N/A: NOT AVAILABLE OR APPLICABLE      N/E: NOT ESTABLISHED      ND: Not Determined

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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