

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 All Seasons Horticultural & Dormant  
Spray Oil Concentrate**

**ID # 480**

Date: August 14, 2001

**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)
Petroleum Oil				98.80

**Section III - Physical/Chemical Ingredients**

BOILING POINT: >200°F (wide range)      SPECIFIC GRAVITY: 0.85  
VAPOR PRESSURE (MM. of Mercury): <0.0001      VAPOR DENSITY (AIR=1): 10+  
PERCENT VOLATILE (BY VOLUME): Negligible      SOLUBILITY IN WATER: Emulsifies in water  
AUTOIGNITION TEMPERATURE: 650°F (est.)      DENSITY: 7.08 lbs/gal  
EVAPORATION RATE (BUTYL ACETATE=1): Lower than Butyl Acetate  
APPEARANCE AND ODOR: Clear, colorless, oily liquid with virtually no odor.

**Section IV - Fire and Explosion Data**

FLASHPOINT: >200 F      FLAMMABLE LIMITS (PERCENT BY VOLUME): NE  
FIRE EXTINGUISHING MEDIA: Can be made to burn; ease of burning is directly related to temperature. Dry  
Chemical, CO<sub>2</sub>, Foam, Water Spray or Fog.  
SPECIAL FIRE FIGHTING PROCEDURES: Smoke and fumes from fire may contain hazardous components. Use  
self-contained breathing apparatus and full protective clothing. Fight fire from upwind side.  
UNUSUAL FIRE AND EXPLOSION HAZARDS: If water is used to fight fire or cool containers, contain run-off by  
diking to prevent contamination of water supplies.

**Section V - Reactivity Data**

STABILITY: Stable      CONDITIONS TO AVOID: Excessive Heat      CONDITIONS TO AVOID: NE  
HAZARDOUS POLYMERIZATION: Will not occur      INCOMPATIBILITY (Materials to avoid): Strong Oxidizers  
HAZARDOUS DECOMPOSITION PRODUCTS: Unknown hazardous materials may be formed in a fire situation.  
Incomplete combustion may lead to formation of carbon monoxide and/or other asphyxiants.

**Section VI - Health Hazard Information**

ROUTES OF ENTRY: Ingestion, inhalation, eyes and skin contact. MOST LIKELY ROUTE OF ENTRY: Dermal  
product is considered to be of low to moderate toxicity. May be harmful if swallowed or inhaled. May cause  
irritation of eyes, nasal passages, throat and skin. Prolonged or repeated exposure may lead to reddening of skin, rash,  
dermatitis or other skin reactions, possible due, in part, to the removal of some natural oils and fats from the skin.  
EMERGENCY AND FIRST AID PROCEDURES: Call a physician immediately in all cases of suspected poisoning.  
INGESTION: Drink 1 or 2 glasses of water to dilute material. 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. 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. None of the other components in this product is  
listed by IARC, NTP or OSHA as a carcinogen.

## Section VII - Precautions for Safe Handling/Use

**HANDLING AND STORAGE:** Store in a cool, dry place away from children, domestic animals, food and feed products. 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 pesticides. Wash clothing before reuse.

## Section VIII - Environmental and Disposal Information

**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.

**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.

**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

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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