

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 Bon-Neem<sup>II</sup> Fungicide•Miticide•Insecticide Conc.**

**ID # 70051754**

Date: March 26, 2013

## 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)
Pyrethrins				0.25%
Piperonyl Butoxide, Tech.				2.50%
Clarified Hydrophobic Extract of Neem Oil		None Est.		70.00%
Other Inert Ingredients				27.25%

**EMERGENCY OVERVIEW- WARNING:** May cause irritation if swallowed or absorbed through skin. Contact may irritate eyes and skin. May cause irritation to gastrointestinal tract if swallowed.

## Section III - First Aid Information

IF SWALLOWED – Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

IF INHALED – Move person to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible.

IF IN EYES – Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

IF ON SKIN OR CLOTHING –Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

NOTE TO PHYSICIAN: Contains petroleum distillate – vomiting may cause aspiration pneumonia

## Section IV - Fire and Explosion Data

FLAMMABLE PROPERTIES: FLASHPOINT: 74°C; 164°F

EXTINGUISHING MEDIA: Foam, carbon dioxide, waterfog and dry chemical

FIRE FIGHTING INSTRUCTIONS: Do not inhale smoke vapors. Use self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear. Cool fire-exposed areas and equipment. Dike runoff to keep from water system, rivers, streams and lakes.

NFPA - H: 2 F: 1 R: 0

## Section V - Accidental Release Measures

Wear safety glasses and chemically resistant glove, long sleeves long pants, shoes and socks. Avoid contact with product. Evacuate area of nonessential personnel. Soak up with an absorbent material such as sand, sawdust, earth, and fuller's earth. Dispose of with chemical waste. Avoid runoff into storm sewers and ditches that lead to waterways.

## Section VI- Handling and Storage

HANDLING PRECAUTIONS: Avoid contact with eye and skin. Avoid breathing vapor or spray mist. Do not apply directly to food. In commercial food handling facilities, cover or remove food and food processing equipment before application. Do not apply while food processing is underway. Remove pets and birds and cover fish aquaria before spraying.

STORAGE PRECAUTIONS: Store upright in original container in a cool dry place inaccessible to children and pets. Avoid exposure to extreme temperatures.

WORK/HYGIENIC PRACTICES: Wash hands, arms and face with soap and water after handling and before eating or smoking. Wash contaminated clothing with soap and hot water before reuse. After space spraying in meat packing plants, bakeries and all other food processing plants, wash all equipment thoroughly with a suitable detergent and rinse with potable water (benches, shelving, etc.) where exposed food will be handled. All food processing surfaces should be covered during treatment or thoroughly washed before reuse.

## Section VII - Exposure Controls/Personal Protection

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EYE/FACE PROTECTION: Safety glasses or goggles.

SKIN PROTECTION: Rubber or impervious gloves, Long sleeves and pants, full foot wear.

RESPIRATORY PROTECTION: None should be required with normal use. Use Good local ventilation. Avoid standing in mist, stay upwind of spray.

## Section VIII - Physical/Chemical Ingredients

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PHYSICAL STATE: Liquid

VAPOR PRESSURE: <2 mmHg @ 25°C

VAPOR DENSITY (AIR=1): >5 (Air=1)

SPECIFIC GRAVITY: 0.98 -.99

SOLUBILITY: Water-insoluble

EVAPORATION RATE: <0.1 (-Butyl Acetate=1)

APPEARANCE: Yellow to red

ODOR: Garlic citrus

## Section IX - Reactivity Data

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STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): None

HAZARDOUS DECOMPOSITION PRODUCTS: None known

HAZARDOUS POLYMERIZATION: Will not occur

INCOMPATIBLE MATERIALS: None known

## Section X - Toxicological Information

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TOXICOLOGICAL INFORMATION:

EYE EFFECTS: Irritating

ACUTE ORAL EFFECTS: LD50 > 3,000 mg/kg

SKIN EFFECTS: Irritation: Slightly irritating.

ACUTE INHALATION EFFECTS: LC<sub>50</sub>>7.5 mg/L air

CARCINOGENICITY: NTP: No IARC: No OSHA: No

TERATOGENICITY (BIRTH DEFECTS): There were no birth defects or adverse effects on reproductive parameters in test with rats or rabbits for either pyrethrum or piperonyl butoxide. They are not considered to be teratogenic.

MUTAGENICITY (GENETIC EFFECTS): Pyrethrum was not found to be genotoxic and did not damage DNA in any study conducted (Ames mutagenicity assay, chromosome aberration in chinese hamster ovaries (CHO) cells, and in the unscheduled DNA synthesis (UDS) assay in cultured human liver cells. PBO was not genotoxic in several tests including the Ames mutagenicity assay, chromosome aberration in chinese hamster ovary (CHO) cells, CHO/HGPRT assay with S9 activation, and in the unscheduled DNA synthesis (UDS) assay in cultured human liver cells.

## Section XI - Ecological Information

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OTHER ENVIRONMENTAL INFORMATION: This product is toxic to fish. Do not apply directly to lakes, streams, ponds, tidal marshes or estuaries. Do not apply where runoff is likely to occur. Do not contaminate water by cleaning or equipment or disposal of wastes.

## Section XII - Disposal Considerations

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DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL.

CONTAINERS DISPOSAL (LARGER THAN ONE GALLON): Do not reuse empty container. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

CONTAINER DISPOSAL (ONE GALLON AND SMALLER): Store in original container in a cool dry place inaccessible to children and pets. Do not reuse container. Wrap container in several layers of newspaper and discard in trash.

## Section XIII - Transport Information

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PROPER SHIPPING NAME: (Freight Class) Insecticide, NOI

HAZARD CLASS: N/A—not regulated

DOT IDENTIFICATION NUMBER: N/A

DOT SHIPPING LABEL: N/A

NOTE: This product is not regulated by DOT in quantities less than 30 gallons.

## **Section XIV - Regulatory Information**

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SARA TITLE III - SECTION 313 SUPPLIER NOTIFICATION: Piperonyl butoxide CAS#51-03-6

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: None

SECTION 311/312 HAZARD CATEGORIES: Immediate health hazard, delayed health hazard.

This information must be included on all MSDS's that are copied and distributed for this material.

OSHA STATUS: This product is hazardous under the criteria of the Federal OSHA Criteria Standard CFR 29 1910.1200.

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.

### **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

#### **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.