



# Bonide Bon-Neem II Fungicide-Miticide-Insecticide

## Ready to Use

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product name : Bonide Bon-Neem II Fungicide-Miticide-Insecticide Ready to Use  
Product code : 70051744

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Insecticide, Fungicide, Miticide

### 1.3. Details of the supplier of the safety data sheet

Bonide Products, LLC  
6301 Sutliff Road  
Oriskany, NY 13424

Telephone Number: (315) 736-8231

Comment: Bonide hours of operation are 8:00 a.m. to 4:30 p.m EST.

Website: [www.bonide.com](http://www.bonide.com)

Email address: [sales@bonide.com](mailto:sales@bonide.com)

### 1.4. Emergency telephone numbers (24 hour)

Medical : SafetyCall - (833) 972-1101  
Spills : CHEMTREC - 1 (800) 424-9300 and/or 1 (703) 527-3887

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification (GHS-US)

Not classified

### 2.2. Label elements

#### GHS-US labeling

EPA Signal Word: Caution\* (refer to section 15)

Hazard Statements: None

Pictogram: None

Precautionary Statements: Harmful if inhaled. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Remove and wash contaminated clothing before reuse. Wash thoroughly after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

### 2.3. Other hazards

Do not apply this product in a way that will contact adults, children, or pets either directly or through drift. Remove pets, birds, and cover fish aquariums before spraying. Do not allow adults, children, or pets to enter the treated area until sprays have dried.

This product is toxic to aquatic organisms including fish and invertebrates.

This product is highly toxic to bees when exposed to direct treatment.

## SECTION 3: Composition/information on ingredients

### Mixture

Name	Product identifier	%
Clarified Hydrophobic Extract of Neem Oil	(CAS No) 947173-77-5	0.9
Piperonyl Butoxide	(CAS No) 51-03-6	0.2
Pyrethrins	(CAS No) 8003-34-7	0.02

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Assure fresh air breathing. Allow the person to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

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### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Shortness of breath

### 4.3. Indication of any immediate medical attention and special treatment needed

None specified

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : None known

### 5.2. Special hazards arising from the substance or mixture

None known

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

This product is toxic to aquatic organisms including fish and invertebrates. To protect the environment do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help ensure that wind and rain does not blow or wash pesticide off the treated area.

This product is toxic to bees exposed to direct treatment. Do not apply this product while bees are actively visiting the treatment area.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Harmful if inhaled. Avoid breathing spray mist. Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Keep container closed when not in use. Keep from freezing.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

OSHA Permissible Exposure Limits (PELs): Not determined

ACGIH Threshold Limit Values: Not determined

Other Exposure Limits: Not determined

### 8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Respiratory protection : Wear approved mask.

Other information : When using, do not eat, drink or smoke.

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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: White to creamy, cloudy
Color	: Creamy-white
Odor	: Sour garlic
Odor threshold	: No data available
pH	: 7.44 - 8.22
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point / Freezing Point	: 0 °C (32 °F)
Boiling point	: 100 °C (212 °F)
Flash point	: Not flammable
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Density	: 8.33 lbs./gallon
Solubility	: Soluble
Viscosity	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: Not oxidising

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

None known

#### 10.2. Chemical stability

Stable if stored according to label

#### 10.3. Possibility of hazardous reactions

None

#### 10.4. Conditions to avoid

Do not freeze

#### 10.5. Incompatible materials

None known

#### 10.6. Hazardous decomposition products

None known

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute Toxicity

Clarified Hydrophobic Extract of Neem Oil (947173-77-5)	
LD50 (oral)	> 5000 mg/kg, Toxicity Category IV (40 CFR 156.62)
LD50 (dermal)	>2000 mg/kg, Toxicity Category III (40 CFR 156.62)
LC50 (inhalation)	> 2 mg/L, Toxicity Category III (40 CFR 156.62)

Pyrethrins (8003-34-7)	
LD50 oral rat	200 mg/kg (Rat)
LC50 inhalation rat (mg/l)	3.4 mg/l/4h (Rat)

Skin corrosion/irritation	: Slightly irritating, Toxicity Category IV
Serious eye damage/irritation	: Non-irritating, Toxicity Category IV
Respiratory or skin sensitization	: Mildly sensitizing (study with product containing 90% neem oil)
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

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Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
NTP Listed:	Not applicable
IARC Listed:	Piperonyl butoxide: Group 3; The agent is not classifiable as to its carcinogenicity to humans.
OSHA:	Not applicable

### SECTION 12: Ecological information

#### 12.1. Toxicity

This pesticide is toxic to aquatic organisms including fish and invertebrates. This product is highly toxic to bees exposed to direct treatment.

Pyrethrins (8003-34-7)	
LC50 fish 1	0.049 mg/l (96 h; <i>Lepomis macrochirus</i> )
LC50 other aquatic organisms 1	0.011 mg/l (96 h; <i>Gammarus</i> sp.)
LC50 fish 2	0.009 mg/l (96 h; <i>Ictalurus punctatus</i> )
Threshold limit other aquatic organisms 1	0.011 mg/l (96 h; <i>Gammarus</i> sp.)

#### 12.2. Persistence and degradability

Bonide Bon-Neem II Fungicide-Miticide-Insecticide Ready to Use	
Persistence and degradability	Not established.

Clarified Hydrophobic Extract of Neem Oil (947173-77-5)	
Persistence and degradability	degrades rapidly and does not persist in the environment.

Pyrethrins (8003-34-7)	
Persistence and degradability	Readily biodegradable in water.

#### 12.3. Bioaccumulative potential

Bonide Bon-Neem II Fungicide-Miticide-Insecticide Ready to Use	
Bioaccumulative potential	Not established.

Clarified Hydrophobic Extract of Neem Oil (947173-77-5)	
Bioaccumulative potential	not intended for use in aquatic environments. Appropriate cautions are required for use around bodies of water.

Pyrethrins (8003-34-7)	
Log Pow	6.15 (Estimated value)

#### 12.4. Mobility in soil

Pyrethrins (8003-34-7)	
Ecology - soil	Not toxic to plants. Toxic to bees.

#### 12.5. Other adverse effects

Other information : Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Ecology - waste materials : Avoid release to the environment.

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### SECTION 14: Transport information

Not regulated for transport by DOT

### SECTION 15: Regulatory information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**CAUTION:** Harmful if inhaled. Avoid breathing spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

### SECTION 16: Other information

Other information : None.

SDS US (GHS HazCom 2012) - Pesticides

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*