



# Bonide Ant, Flea & Tick Killer Granules

## 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 Ant, Flea & Tick Killer Granules  
Product code : 4425

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

Use of the substance/mixture : Insecticide

#### 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)

Specific Target Organ Toxicity (STOT) single exposure, Respiratory tract irritation 3 H335  
Carcinogenicity 2 H351  
Specific Target Organ Toxicity (STOT) repeat exposure 2 H373

#### 2.2. Label elements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H335 - May cause respiratory irritation  
H351 - Suspected of causing cancer (inhalation)  
H373 - May cause damage to lungs through prolonged or repeated exposure

Precautionary statements (GHS-US) : P203 - Obtain, read and follow all safety instructions before use.  
P260 - Avoid breathing dust.  
P271 - Use only outdoors or in a well-ventilated area.  
P264 - Wash hands thoroughly after handling.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P318 - If exposed or concerned, get medical advice.  
P319 - Get medical help if you feel unwell.  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 - Store locked up.  
P501 - Dispose of contents/container to in accordance with regional/national regulations.

#### 2.3. Other hazards

Avoid creating dust when handling, using or storing. Exposure may aggravate pre-existing eye, skin, or respiratory conditions. May cause skin irritation.

### SECTION 3: Composition/information on ingredients

#### Mixture

Name	Product identifier (CAS No)	%
Permethrin	52645-53-1	0.25

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Name	Product identifier (CAS No)	%
Calcium Carbonate	471-34-1	< 96*
Silica	14808-60-7	< 1*

\*Ingredients not listed or listed with a weight % range are considered a trade secret and are withheld under 29 CFR 1910.1200(i).

### 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. Obtain emergency medical attention.
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.

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

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

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

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

None known, not flammable nor an explosion hazard.

#### 5.3. Advice for firefighters

Firefighting instructions	: No specific fire-fighting instructions required.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Hazardous Combustion Products	: Crystalline silica exists in several forms, the most common of which is quartz. If crystalline silica (quartz) is heated to more than 870°C, it can change to a form of crystalline silica known as tridymite, and if crystalline silica (quartz) is heated to more than 1470°C, it can change to a form of crystalline silica known as cristobalite. The OSHA PEL for crystalline silica as tridymite and cristobalite is one-half of the OSHA PEL for crystalline silica (quartz).

### 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

Prevent entry to sewers and public waters.

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

Methods for cleaning up : On land, sweep or shovel into suitable containers. **Avoid creating dust.** Carefully collect the spill/leftovers.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

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

Storage conditions : Protect from moisture. Keep only in the original container in a cool, well ventilated place away from children. Keep container closed when not in use.  
Incompatible materials : Strong bases. Oxidizers. Acids. Dissolves in hydrofluoric acid, producing corrosive silicon tetrafluoride gas.

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## Safety Data Sheet

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

For substances listed in Section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

Silica (14808-60-7)		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable particulate matter)
USA ACGIH	ACGIH chemical category	A2 - Suspected Human Carcinogen
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	50 µg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (respirable dust)
USA IDLH	US IDLH (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup> (respirable dust)

Calcium Carbonate (471-34-1)		
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable dust)

\* Limestone is not a carcinogen listed by ACGIH, MSHA, OHSA, NTP, DFG, RSST, or IARC. However, crystalline silica may be at or above detection levels (0.1%). Occurrence is dependent upon the stone source, process and specific application.

#### 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.

### SECTION 9: Physical and chemical properties

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

Physical state	: Solid
Color	: White or tan/brown/light grey.
Odor	: Slight Insecticide type odor.
Odor threshold	: No data available
pH	: 5.5 - 7
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: Not applicable
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not flammable
Vapor pressure	: No data available
Relative density	: No data available
Density	: 560 g/l
Solubility	: No data available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable under normal conditions.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Extremely high or low temperatures. Protect from moisture.

#### 10.5. Incompatible materials

Strong bases. Oxidizers. Acids. Dissolves in hydrofluoric acid, producing corrosive silicon tetrafluoride gas.

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### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Permethrin (52645-53-1)	
LD50 oral rat	> 383 mg/kg (Rat)
LD50 dermal rat	4000 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)

Skin corrosion/irritation : Direct contact may cause irritation by mechanical abrasion.

Serious eye damage/irritation : Direct contact with dust may cause irritation by mechanical abrasion or corrosive action. Conjunctivitis may occur.

Respiratory or skin sensitization : Dust may irritate nose, throat, mucous membranes and respiratory tract by mechanical abrasion. Coughing, sneezing, chest pain, shortness of breath, inflammation of mucous membrane, and flu-like fever may occur following exposures in excess of appropriate exposure limits. Inhalation of excessive concentrations of dust, including this material, may lead to lung injury.

Germ cell mutagenicity : Not classified

Carcinogenicity : Limestone (calcium carbonate) is not a carcinogen.

Permethrin (52645-53-1)	
IARC group	3 - Not Classifiable

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : May cause respiratory irritation.

Specific target organ toxicity (repeated exposure) : Causes damage to organs (respiratory system) through prolonged or repeated exposure (Inhalation).

Aspiration hazard : Not classified

Symptoms/Injuries After Inhalation : Respiratory irritation. Repeated or prolonged exposure to respirable (airborne) crystalline silica dust will cause lung damage in the form of silicosis. Symptoms will include progressively more difficult breathing, cough, fever, and weight loss.

Symptoms/Injuries After Skin Contact : Prolonged exposure may cause skin irritation.

Symptoms/Injuries After Eye Contact : May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion : Ingestion may cause adverse effects

Chronic Symptoms : May cause cancer. Causes damage to organs through prolonged or repeated exposure.

LD50 and LC50 Data:

Silica (14808-60-7)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 5000 mg/kg
Calcium Carbonate (471-34-1)	
LD50 Oral Rat	6450 mg/kg

Silica (14808-60-7), IARC Group 1, National Toxicology Program (NTP) Status Known Human Carcinogens.  
OSHA Hazard Communication Carcinogen List - In OSHA Hazard Communication Carcinogen list.

## SECTION 12: Ecological information

### 12.1. Toxicity

Permethrin (52645-53-1)	
LC50 fish 1	0.0025 mg/l 96 h; <i>Salmo gairdneri</i> ( <i>Oncorhynchus mykiss</i> )
EC50 Daphnia 1	0.00043 mg/l (48 h; <i>Daphnia magna</i> ; Enzyme effect)
LC50 fish 2	0.016 mg/l (96 h; <i>Pimephales promelas</i> )
EC50 Daphnia 2	0.290 mg/l (24 h; <i>Lymnaea</i> sp.)

### 12.2. Persistence and degradability

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Persistence and degradability	Not established.

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### 12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
Permethrin (52645-53-1)	
BCF fish 1	560 <i>Salmo gairdneri</i> ( <i>Oncorhynchus mykiss</i> )
BCF fish 2	480 ( <i>Cyprinodon variegatus</i> )
BCF other aquatic organisms 1	0.1 mg/l (>24 h; Algae)
BCF other aquatic organisms 2	1900 ( <i>Ostreidae</i> )
Log Pow	3.48 - 6.5
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).

### 12.4. Mobility in soil

Permethrin (52645-53-1)	
Ecology - soil	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.

## 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 absorbed through the skin. Causes moderate eye irritation. Harmful if inhaled. Avoid breathing dust. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

## 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.*