

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

Product identifier

Substance name : Bonide Annual Grub Beater Insect Control with Systemaxx

Product code : 538831994

Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Insecticide

Details of the supplier of the safety data sheet 1.3.

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 Email address: sales@bonide.com

Emergency telephone numbers (24 hour) 1.4.

: SafetyCall - (833) 972-1101 Medical

: CHEMTREC - 1 (800) 424-9300 and/or 1 (703) 527-3887 Spills

SECTION 2: Hazards identification

Classification of the substance or mixture

GHS-US classification

H303 Acute toxicity, oral 5 Acute Toxicity, dermal 5 H313 Eye Irritation 2B H320

Specific Target Organ Toxicity (STOT) single exposure, Respiratory tract irritation 3 H335 Carcinogenicity 2 H351 Specific Target Organ Toxicity (STOT) repeat exposure 2 H373 H400

Aquatic Environment, Acute 1

Label elements

GHS-US labelling

Hazard pictograms (GHS-US)







Signal word (GHS-US) Warning

Hazard statements (GHS-US) H303 - May be harmful if swallowed

H313 - May be harmful if in contact with skin

H320 - Causes eve irritation

H335 - May cause respiratory irritation

H351 - Suspected of causing cancer (inhalation)

H373 - May cause damage to lungs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

P261 - Avoid breathing dust. Precautionary statements (GHS-US)

P264 – Wash throughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment. P301+P317 - If swallowed: Get medical help. P302+P352 - If on skin: Get medical help.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P317 - Get medical help.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P337+P317 - If eye irritation persists: Get medical help.

P391 - Collect spillage.

P501 - Dispose of contents/container to in accordance with local/national regulations.

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2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

Mixture

Name	Product identifier (CAS No)	%
Imidacloprid (ISO),	138261-41-3	0.5
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

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).

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

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

warm water rinse.

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

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

42 Most important symptoms and effects, both acute and delayed

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

Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

Extinguishing media

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

Unsuitable extinguishing media : Do not use water stream.

Special hazards arising from the substance or mixture

Can burn in fire, releasing irritating and toxic gases due to thermal decomposition or combustion.

Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Avoid (reject) fire-fighting water to enter environment.

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 trydimite, 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 trydimite and cristobalite is one-half of the OSHA PEL for crystalline silica (quartz).

SECTION 6: Accidental release measures

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.

Environmental precautions

Methods for cleaning up

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Highly toxic to bees, birds and aquatic invertebrates.

6.3. Methods and material for containment and cleaning up

: Clean up spills immediately and avoid creating dust cloud. Vacuum or sweep up material and place in a container for reuse or disposal. Reduce airborne dust and prevent scattering by moistening with water. Pick up wash liquid with additional absorbent and place in a disposable container.

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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. Protect from moisture. Avoid prolonged and repeated contact with skin. Use

only in a well-ventilated area. Minimize dust generation and accumulation.

KEEP OUT OF REACH OF CHILDREN!

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container in a cool, dry place, out of the reach of children, preferably a locked

storage cabinet.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Proper ventilation is required when handling or using this product. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

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), or OSHA (PEL).

Silica (14808-60-7)		
USA ACGIH	ACGIH TWA (mg/m³)	0.025 mg/m³ (respirable particulate matter)
USA ACGIH	ACGIH chemical category	A2 - Suspected Human Carcinogen
USA OSHA	OSHA PEL (TWA) (mg/m³)	50 μg/m³
USA NIOSH	NIOSH REL (TWA) (mg/m³)	0.05 mg/m³ (respirable dust)
USA IDLH	US IDLH (mg/m³)	50 mg/m³ (respirable dust)

Calcium Carbonate (471-34-1)		
USA NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³ (total dust)
		5 mg/m³ (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 : Wear gloves made of waterproof material. Discard clothing and other absorbent materials that

have been heavily contaminated with this product. Do not reuse them. Wash hands before

eating, drinking, chewing gum, using tobacco or using the toilet..

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Tan to gray granule powder.

Color : Tan to grey

Odor : No appreciable odor.
Odor threshold : No data available

pH : 7.0 - 8.0

Melting point : No data available
Freezing point : No data available
Boiling point : No data available
Flash point : No data available
Flash point : No data available
Self ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available

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Vapor pressure : 5.2x10-6 Pa @ 25°C (Imidacloprid)

Solubility : Insoluble in water.

Log Pow : 0.57 @ 25°C (Imidacloprid)

Log Kow : No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Not reactive

10.2. **Chemical stability**

Stable under normal conditions.

Possibility of hazardous reactions

Product will not undergo polymerization.

Conditions to avoid

Avoid temperatures above 100°F (38°C) for prolonged period of time. Moisture.

Incompatible materials 10.5.

Not available.

Hazardous decomposition products 10.6.

Hydrogen chloride and hydrogen cyanide and oxides of nitrogen and carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

: Oral LD50 (rat) - > 5,000 mg/Kg Acute toxicity

> Dermal LD50 (rat) - > 2,000 mg/Kg Inhalation LC50 (rat) - > 5.0 mg/L Eye Irritation (rabbit) - Mild Skin Irritation (rabbit) - Mild

Sensitization (guinea pig) - Non-sensitizer

Skin corrosion/irritation : Mild irritation Serious eye damage/irritation Mild irritation Respiratory or skin sensitization : Not classified

: Little or no evidence of mutagenic effects during in vivo or in vitro studies. Germ cell mutagenicity

Carcinogenicity Not classified

Reproductive toxicity : No reproductive or teratogenic (birth defect) effects at normal exposure levels

Specific target organ toxicity (single exposure) : Not classified Specific target organ toxicity (repeated : Not classified

exposure)

: Not classified Aspiration hazard

Information on toxicological effects (Limestone)

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.

Dust may irritate nose, throat, mucous membranes and respiratory tract by mechanical abrasion. Respiratory or skin sensitization

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. May cause cancer (Inhalation).

Reproductive toxicity Not classified

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

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

(Inhalation).

Aspiration hazard : Not classified

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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

This product is toxic to birds and aquatic invertebrates. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply directly to water. Do not contaminate water when cleaning equipment or disposing of equipment washwater.

12.2. Persistence and degradability

Imidacloprid has a soil ½ life of 29 - 225 days depending on soil type and conditions. It is soluble in water and has the potential to leach in permeable soil types.

12.3. Bioaccumulative potential

Not established.

12.4. Mobility in soil

No additional information available

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 swallowed or absorbed through skin. Causes eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling.

SECTION 16: Other information

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.

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