



# Bonide Rose Shield Systemic Rose & Flower Drench

## 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 Rose Shield Systemic Rose & Flower Drench  
Product code : 69361194

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

Use of the substance/mixture : Insecticide, Fungicide

#### 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)

Eye Damage/Irritation 2A H319

#### 2.2. Label elements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) : Warning  
Hazard statements (GHS-US) : H319 – Causes serious eye irritation  
Precautionary statements (GHS-US) : P264 - Wash hands thoroughly after handling.  
P280 – Wear eye protection/face protection.  
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.  
P501 - Dispose of contents/container to in accordance with local/national regulations

#### 2.3. Other hazards

May cause skin irritation. May be harmful if swallowed.  
Highly toxic to aquatic invertebrates. Do not apply directly to water.  
Highly toxic to bees exposed to direct treatment or residues in blooming crops or weeds.

### SECTION 3: Composition/information on ingredients

#### Mixture

Name	Product identifier	%
Tebuconazole, $\alpha$ -[2-(4-chlorophenyl)ethyl] - $\alpha$ -(1,1-dimethylethyl)-1H1,2,4-triazole-1-ethanol	(CAS No) 107534-96-3	0.8
Imidacloprid (ISO), N-1-(6-chloropyridin-3-ylmethyl)-N-nitroimidazolidin-2-yl)nitramine	(CAS No) 138261-41-3	0.15

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### 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 cautiously with water for 15-20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing eye. 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 : None known

#### 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.
- Unsuitable extinguishing media : Do not use a heavy water stream.

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

No additional information available

#### 5.3. 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.

### 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. Notify authorities if liquid enters sewers or public waters.

#### 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 : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

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

- Storage conditions : Store in original container in a cool place, out of the reach of children, preferably in a locked cabinet. Protect from freezing. Keep container closed when not in use.
- Incompatible products : Strong bases. Strong acids.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Exposure Guidelines: Occupational exposure limit (OEL) and biological limit values (BLV) for Tebuconazole – CAS No.: 107534-96-3 and Imidacloprid – CAS No.: 138261-41-3 not established, control banding approach not available.

Appropriate engineering controls: Use sufficient ventilation to avoid build-up of vapors.

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### 8.2. Exposure controls

Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Chemical resistant gloves made of waterproof material.
Eye protection	: Chemical safety glasses with side shields or splash proof goggles.
Skin protection	: Wear long-sleeved shirt, long pants, shoes and socks.
Respiratory protection	: None, or wear approved mask if in poorly ventilated area.
Other information	: When using, do not eat, drink or smoke. Emergency shower and eyewash facilities should be in close proximity. Launder contaminated clothing and wash hands and face after use. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: Dark brown liquid with brown specs.
Color	: Brown.
Odor	: Slight Insecticide type odor.
Odor threshold	: No data available
pH	: 7 - 8
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not flammable
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Density	: 1.31 g/cm at 77°F (25°C)
Solubility	: Soluble
Viscosity (Brookfield LVF, Spindle #3, 25°C)	: 6 RPM – 5600; 12 RPM – 3700; 30 RPM – 2280; 60 RPM – 1640

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Avoid cold temperatures and freezing, keep in dry place

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

(Information provided below is from a similar formulation containing higher percentage of active ingredient, tebuconazole and the same percentage of active ingredient, imidacloprid.)

Oral LD50 (rat):	> 5,000 mg/kg bw
Dermal LD50 (rat):	> 5,000 mg/kg bw
Inhalation LC50 (rat):	> 2.76 mg/L
Skin irritation (rabbit):	Mild irritant

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Skin sensitization (guinea pig): Non sensitizing  
Eye irritation (rabbit): Moderate irritation

Routes of Exposure: EYE CONTACT – Eye irritant

Acute toxicity : Harmful if swallowed.

### Imidacloprid (ISO), 1-(6-chloropyridin-3-ylmethyl)-N-nitroimidazolidin-2-ylidenamine (138261-41-3)

ATE (oral)	500.000 mg/kg body weight
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#### Toxicological Data for Imidacloprid Technical:

Mutagenicity: Not mutagenic

Carcinogenicity: Not carcinogenic

Reproductive Toxicity: Not primary reproductive toxicant

### Tebuconazole (107534-96-3)

LD50 oral rat	1700 mg/kg (Rat; Literature study)
LD50 dermal rat	> 5000 mg/kg (Rat; Literature study)
LC50 inhalation rat (mg/l)	> 0.8 mg/l/4h (Rat; Literature study)

#### Toxicological Data for Tebuconazole Technical:

Mutagenicity: Not mutagenic

Carcinogenicity: Not carcinogenic

Reproductive Toxicity: Not primary reproductive toxicant

## SECTION 12: Ecological information

### 12.1. Toxicity

Product is highly toxic to aquatic invertebrates.

### Tebuconazole (107534-96-3)

LC50 fish 1	4.4 mg/l (LC50; US EPA; 96 h; Salmo gairdneri; Flow-through system)
EC50 Daphnia 1	4.2 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna)
Threshold limit algae 1	4.01 mg/l (ErC50; OECD 201: Alga, Growth Inhibition Test; 96 h; Scenedesmus subspicatus)

### 12.2. Persistence and degradability

#### Bonide Rose Shield Systemic Rose & Flower Drench

Persistence and degradability	Not established.
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### Tebuconazole (107534-96-3)

Persistence and degradability	Not readily biodegradable in water.
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### 12.3. Bioaccumulative potential

#### Bonide Rose Shield Systemic Rose & Flower Drench

Bioaccumulative potential	Not established.
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### Tebuconazole (107534-96-3)

Log Pow	3.7
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### 12.4. Mobility in soil

### Tebuconazole (107534-96-3)

Ecology - soil	Not toxic to bees.
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### 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

• Causes moderate eye irritation. • Avoid contact with eyes or clothing. • Wear long-sleeved shirt, long pants, shoes, socks, and gloves made of any waterproof material. • Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco will reduce exposure.

#### 15.1. US Federal regulations

TSCA list: None

TSCA 12b export notification: None

SARA Title III - section 302 - notification and information: None

SARA Title III - section 313 - toxic chemical release reporting: None

#### 15.2. US State regulations

CA Prop65 : This product does not contain any substances known to the State of California to cause cancer. This product does not contain any substances known to the State of California to cause reproductive harm.

US State right-to-know ingredients : None

### 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.*