



# Got pests...get Revenge Dual Action Bedbug Killer

## 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 : Got pests...get Revenge Dual Action Bedbug Killer  
Product code : 102125709086

#### 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)

Acute toxicity - Inhalation (Dust/Mist) 4	H332
Skin Sensitization 1	H317
Flammable aerosol 2	H223
Gases under pressure	H280
Acute hazard to aquatic environment	H400
Long term hazard to the aquatic environment	H410

#### 2.2. Label elements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Warning

Hazard statements (GHS-US) :

H280 - Contains gas under pressure; may explode if heated  
H223 - Flammable aerosol  
H332 - Harmful if inhaled  
H315 - Causes skin irritation  
H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements Prevention (GHS-US) :

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
P211 - Do not spray on an open flame or other ignition source  
P251 - Pressurized container: Do not pierce or burn, even after use  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P271 - Use only outdoors or in a well-ventilated area  
P272 - Contaminated work clothing should not be allowed out of the workplace  
P280 - Wear protective gloves

Precautionary Statements - Response:

P321 - Specific treatment (see Section 4/ First Aid).  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention  
P363 - Wash contaminated clothing before reuse  
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
P312 - Call a POISON CENTER or doctor/physician if you feel unwell

Precautionary Statements - Storage/Disposal:

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F  
P403 - Store in a well-ventilated place

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P501 - Dispose of contents/container to an approved waste disposal plant

### 2.3. Other hazards

Do not use this product in or on electrical equipment due to the possibility of shock hazard.

## SECTION 3: Composition/information on ingredients

### Mixture

Name	Product identifier (CAS No)	%
d-Phenothrin (Sumithrin®)	26002-80-2	0.40
MGK®-264 Insecticide Synergist (n-Octyl bicycloheptene dicarboximide)	113-48-4	1.00
Imidacloprid	138261-41-3	0.05
Isobutane	75-28-5	5 <---> 15*

\* The exact percentage (concentration) of composition has been withheld as a trade secret.

Comments: Ingredients not identified are proprietary or non-hazardous. Values are not product specifications.

## 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 : Remove affected person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
- 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. Consult a doctor/medical service if you feel unwell.
- First-aid measures after eye contact : 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. Call a poison control center or doctor for treatment advice.
- First-aid measures after ingestion : If swallowed, IMMEDIATELY call a poison control center or doctor for treatment advice. DO NOT give any liquid to the person. Do not induce vomiting unless told to do so by a poison control center or a doctor. Never give anything by mouth to an unconscious person.
- Self-protection of the First Responder : Remove all sources of ignition. Use personal protective equipment as required.

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

None known

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

For skin effects, a highly efficient therapeutic agent for Pyrethrin/ Pyrethroid exposure is topical application of tocopherol acetate (Vitamin E).

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Sand.
- Unsuitable extinguishing media : Do not use water stream.

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

- Fire hazard : Combustible liquid.
- Explosion hazard : May form flammable/explosive vapor-air mixture.

### 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

- General measures : Remove ignition sources. Use special care to avoid static electric charges.

#### 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.

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### 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 : 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

Additional hazards when processed : Handle empty containers with care because residual vapors are flammable. Keep away from ignition sources. - No smoking.

Precautions for safe handling : Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded. Use with local exhaust ventilation. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with eyes. Avoid breathing vapors or mists. Contents under pressure. Do not puncture or incinerate cans. Do not stick pin or any other sharp object into opening on top of can. For more information, see product label..

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

Storage conditions : Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep containers tightly closed in a cool, well-ventilated place. For more information, see product label

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Exposure Guidelines:** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Supplier OEL
Isobutane 75-28-5	STEL: 1000 ppm	-	TWA: 800 ppm TWA: 1900 mg/m3	-

NIOSH IDLH Immediately Dangerous to Life or Health

**Engineering Controls:** Safety showers, Eyewash stations, Ventilation systems

### 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. Face protection shield.  
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 : Liquid  
Color : Milky emulsion.  
Odor : Solvent odor.  
Odor threshold : No data available  
pH : 7.1; 5.3 @ 5% in H<sub>2</sub>O. Test was performed on aerosol non-volatile's  
Melting point : No data available  
Freezing point : No data available  
Boiling point : No data available  
Flash point : > 93.3 °C / > 200.0 °F - Tag Closed Cup; Test was performed on aerosol non-volatile's  
Self ignition temperature : No data available  
Decomposition temperature : No data available  
Flammability (solid, gas) : No data available

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Relative density	: 0.969
Density	: 1.00 g/cm <sup>3</sup> @ 20.0 °C (Aerosol Non-volatiles)
Miscibility/Solubility	: Water: Partially miscible Alcohol Partially miscible Aromatic solvents: Partially miscible Petroleum distillates: Partially miscible
Dynamic Viscosity	: 5.33 cPs @ 21.1°C, Test was performed on aerosol non-volatile's
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available
VOC Content (%)	: 12.9

### 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

Extremely high or low temperatures. Open flame. Sparks.

#### 10.5. Incompatible materials

Strong acids. Strong bases. Incompatible with oxidizing agents.

#### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. May release flammable gases.

### SECTION 11: Toxicological information

#### 11.1. Numerical measures of toxicity - Product Information

Oral LD50 >5,000 mg/kg (rat)

Dermal LD50 >5,000 mg/kg (rabbit)

Inhalation LC50 >2.09 mg/L (rat; 4 hours)

Eye contact: Non-irritating to eyes. (rabbit).

Skin Contact: Slightly irritating. (rabbit).

Skin Irritation Index: 0.8

Sensitization: Positive. (guinea pig).

Comment: Some of the above toxicity data was bridged from the insecticide concentrate, that is used in manufacturing this end-use product.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Reproductive toxicity: No information available.

Developmental Toxicity No information available.

Teratogenicity: No information available.

STOT - single exposure: No information available.

STOT - repeated exposure: No information available.

Chronic toxicity: Avoid repeated exposure.

Target Organ Effects: Central nervous system.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Pyrethrins (8003-34-7)	
LC50 fish 1	0.049 mg/l (96 h; Lepomis macrochirus)
LC50 other aquatic organisms 1	0.011 mg/l (96 h; Gammarus sp.)
LC50 fish 2	0.009 mg/l (96 h; Ictalurus punctatus)
Threshold limit other aquatic organisms 1	0.011 mg/l (96 h; Gammarus sp.)
LC50 fish 1	0.0025 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 1	0.00043 mg/l (48 h; Daphnia magna; Enzyme effect)

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LC50 fish 2	0.016 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 2	0.290 mg/l (24 h; Lymnaea sp.)

<b>Isopar-m (64742-47-8)</b>	
LC50 fish 1	> 100 mg/l (Pisces)
EC50 Daphnia 1	> 100 mg/l (Invertebrata)
Threshold limit algae 1	> 100 mg/l (Algae)

### 12.2. Persistence and degradability

<b>Got pests...get Revenge Dual Action Bedbug Room Fogger</b>	
Persistence and degradability	Not established.

<b>Pyrethrins (8003-34-7)</b>	
Persistence and degradability	Readily biodegradable in water.

<b>Isopar-m (64742-47-8)</b>	
Persistence and degradability	Readily biodegradable in water. Adsorbs into the soil.

<b>Ethylhexylbicycloheptene Dicarboximide (113-48-4)</b>	
Persistence and degradability	Not established.

### 12.3. Bioaccumulative potential

<b>Got pests...get Revenge Dual Action Bedbug Room Fogger</b>	
Bioaccumulative potential	Not established.

<b>Pyrethrins (8003-34-7)</b>	
Log Pow	6.15 (Estimated value)

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).

<b>Isopar-m (64742-47-8)</b>	
Log Pow	6 - 8.2
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).

<b>Ethylhexylbicycloheptene Dicarboximide (113-48-4)</b>	
Bioaccumulative potential	Not established.

### 12.4. Mobility in soil

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

Ecology - soil	Toxic to bees.
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<b>Isopar-m (64742-47-8)</b>	
Surface tension	0.026 N/m (20 °C)

### 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

#### DOT (Department of Transportation)

UN/ID Number: UN1950  
Proper Shipping Name: Aerosols, non-flammable  
Hazard Class: 2.2

#### Air (IATA/ ICAO)

UN/ID Number: UN1950  
Proper Shipping Name: Aerosols, non-flammable  
Hazard Class: 2.2

#### Vessel (IMO/ IMDG)

UN/ID Number: UN1950  
Proper Shipping Name: Aerosols, non-flammable  
Hazard Class: 2.2

### 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. 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. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

#### 15.1. US Federal regulations

##### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

##### SARA 311/312 Hazard

###### Categories

Acute health hazard	No
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	Yes
Reactive Hazard	No

##### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

##### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### 15.2. US State regulations

California Proposition 65: This product does not contain any Proposition 65 chemicals

##### pyrethrins (8003-34-7)

U.S. - Massachusetts - Right To Know List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

### 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.*