



Revenge Home Pest Control Concentrate

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 : Revenge Home Pest Control Concentrate
Product code : 4501

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

Email address: 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

No labeling applicable

2.3. Other hazards

Contact with skin may cause paresthesia in some individuals. May cause eye and skin irritation. May be harmful if inhaled. Avoid breathing mist.
Acute Aquatic toxicity - Do not apply to water.
Harmful to insect pollinators, such as bees.

SECTION 3: Composition/information on ingredients

Mixture

Name	Product identifier (CAS No)	%
Lambda-cyhalothrin	91465-08-6	1.20
Novaluron	116714-46-6	0.39
Pyriproxyfen	95737-68-1	0.39
Propylene Glycol	57-55-6	9 - 11*

*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 victim 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 emergency medical attention.

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

Symptoms/injuries : Gastric upset. Lambda-cyhalothrin is known to cause paresthesia (numbness/tingling of the skin).

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

No additional information available

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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

General measures : Isolate from fire, if possible, without unnecessary risk.

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

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

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 : Keep only in the original container in a cool, well ventilated place away from children. Keep container closed when not in use.
Incompatible products : Strong oxidizers.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No components listed; OSHA PEL, ACGIH TLV, NIOSH REL

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

Appearance : Opaque yellow liquid
Color : Opaque yellow
Odor : Mildly bitter
Odor threshold : No data available
pH : 5.86

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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	: > 231 °F (> 110.6 °C)
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
Relative density	: 1.04 (typical)
Bulk Density	: 6.98 lb/gal
Solubility	: No data available

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.

10.5. Incompatible materials

Strong oxidizers

10.6. Hazardous decomposition products

Thermal decomposition may produce toxic carbon and nitrogen oxides as well as trace amounts of other hazardous gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

* The product has not been tested. Statements have been derived from the properties of the individual components or similar more concentrated formulas.

Acute toxicity : Eye contact, Skin contact, Inhalation, Ingestion

Based on a more concentrated formula*

LD50 oral rat	5000 mg/kg (Rat)
LD50 dermal rabbit	> 5,050 mg/kg (Rat)
LD50 inhalation rat	> 2.16 mg/l (4 hr) Rat

Skin corrosion/irritation	: Mild to moderate skin irritation clearing before 14 days.
Serious eye damage/irritation	: Minimal irritation with all effects clearing in 48 hours.
Respiratory or skin sensitization	: Not a skin sensitizer (guinea pig)(Based upon a similar formulation).
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms of Exposure	: Lambda-cyhalothrin is known to cause paresthesia. Gastric upset. Skin irritation including mild to moderate redness and swelling.

SECTION 12: Ecological information

12.1. Toxicity

Fish Toxicity: Lambda cyhalothrin technical: Oncorhynchus mykiss: 96 hr LC50 <0.24 µ/L

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	Novaluron technical: <i>L. macrochirus</i> : 96 hr LC50 >960 ppb Pyriproxyfen technical: <i>L. macrochirus</i> : 96 hr LC50 >0.27 mg/L
Aquatic Invertebrate Toxicity:	Lambda cyhalothrin technical: <i>Daphnia magna</i> : 48 hr EC50 <0.001 µ/L Novaluron: <i>Daphnia magna</i> : 48 hr EC50 = 0.058 mg/L Pyriproxyfen: <i>Daphnia magna</i> : 48 hr EC50 = 0.4 mg/L
Aquatic Plant Toxicity:	Pyriproxyfen: <i>Selenastrum capricornutum</i> : 72 hr EC50 = 0.15 mg/L
Avian Toxicity:	Pyriproxyfen: Bobwhite quail: Oral LD50 >1,906 mg/kg Novaluron: Bobwhite quail: Oral LD50 >2,000 mg/kg Honeybee Toxicity: Pyriproxyfen technical: Oral LD50 >98.3 µg/bee Novaluron technical: Oral LD50 >100 µg/bee

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

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. Avoid contact with skin or clothing. 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.