

GardenTech Sevin Insect Killer Lawn Granules

Safety Data Sheet

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Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : GardenTech Sevin Insect Killer Lawn Granules
Synonyms : EPA Reg. No.: 279-3346-71004, 10100530028, 100530029, 100530128, 100530129, 100530132, 100530133, 100532565

1.2. Recommended use and restrictions on use

Recommended use : Insecticide.
Restrictions on use : Do not inhale. Keep out of reach of children. Do not use or store near heat or open flame. Avoid all contact with skin, eyes, or clothing.

1.3. Supplier

TechPac, LLC.
1000 Parkwood Circle , Suite 700
Atlanta, GA 30339 - United States

General Product Information: 1-866-945-5033 - Monday - Friday 8am - 5pm CST

www.gardentech.com

1.4. Emergency telephone number

Emergency number : 1-800-420-9347 (Medical emergencies, human or animal)
1-800-424-9300 – CHEMTREC (Transportation related emergencies)
1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Respiratory sensitization Category 1A : May cause an allergy or asthma symptoms or breathing difficulties if inhaled
Combustible Dust : May form combustible dust concentrations in air

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



GHS08

Signal word (GHS US) : Danger
Hazard statements (GHS US) : May form combustible dust concentrations in air
May cause an allergy or asthma symptoms or breathing difficulties if inhaled
Precautionary statements (GHS US) : Avoid breathing dust/fume/gas/mist/vapours/spray.
In case of inadequate ventilation wear In case of inadequate ventilation wear respiratory protection.
If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
If experiencing respiratory symptoms: Call a poison center or a doctor.
Dispose of contents/container to in accordance with local/regional/national regulations.

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : This pesticide is extremely toxic to fish, aquatic invertebrates, oysters and shrimp. Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

2.4. Unknown acute toxicity (GHS US)

Not applicable

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SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Zeta-cypermethrin	(CAS-No.) 52315-07-8	0.029
Bifenthrin	(CAS-No.) 82657-04-3	0.115
Peanut hulls	(CAS-No.) N/A	90 – 99.5
Non-hazardous and/or does not meet criteria for classification	(CAS-No.) N/A	Balance

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures general : Call a poison center/doctor/physician if you feel unwell.
- First-aid measures after inhalation : IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.
- First-aid measures after skin contact : IF ON SKIN: Wash with plenty of soap and water. Wash skin with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice and attention.
- First-aid measures after ingestion : IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel.

4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after inhalation : May cause an allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

4.3. Immediate medical attention and special treatment, if necessary

This product is a pyrethroid. If large amounts have been ingested, the stomach and intestine should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided. Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Use extinguishing agent suitable for surrounding fire.
- Unsuitable extinguishing media : Avoid heavy hose streams.

5.2. Specific hazards arising from the chemical

- Explosion hazard : Dust cloud can be ignited by a spark. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
- Reactivity : This material is friable and can create small dust particles during any handling, processing, and transfer operations. This material can form explosive dust/air suspensions that are ignitable under some conditions.

5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Combustible dust - use low-pressure medium fog streams to avoid dust clouds. Ventilate closed spaces before entering. Eliminate ignition sources. Move containers away from the fire area if this can be done without risk.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Protective equipment : Avoid contact with skin, eyes and clothing. Avoid dust formation and breathing dust. Keep all ignition sources away. Ventilate enclosed areas. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Wear recommended personal protective equipment. Wear suitable protective equipment.
- Emergency procedures : Do not breathe dust. Avoid contact with skin, eyes and clothing. Contain spill and monitor for excessive dust accumulation. Turn off electric power to area. No flames, no sparks. Eliminate all sources of ignition. Avoid breathing dust/fume/gas/mist/vapours/spray. Ventilate spillage area. Evacuate unnecessary personnel.

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6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: Exposure controls/personal protection.
- Emergency procedures : Contain spill and monitor for excessive dust accumulation. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ventilate closed spaces before entering. Turn off electric power to area. As an immediate precautionary measure, isolate spill or leak area for at least 100 meters (330 feet) in all directions. Evacuate area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal. Minimize generation of dust. Use appropriate PPE. Sweep or scoop spills, dispose of any unusable material in approved landfill. Non-sparking tools should be used. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from sources of ignition - No smoking. Avoid dust formation. Avoid breathing dust/fume/gas/mist/vapours/spray. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Provide local exhaust or general room ventilation.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in original container. Store in a well-ventilated place. Keep cool. Keep only in original container.
- Incompatible materials : Heat, sparks, open flame. Sources of ignition. Strong oxidizers. Strong acids. Strong bases.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station. It is recommended that dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment. Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.
- Environmental exposure controls : Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

If prolonged exposure is anticipated, it is recommended for handlers to wear appropriate clothing to prevent skin contact. Use of a full body suit such as Tyvek or Tychem suit is recommended.

Respiratory protection:

In case of insufficient ventilation, use NIOSH approved respiratory protection.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Brown solid granules
Color	: Brown
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non-flammable
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: Not applicable
Bulk density	: 46.78 lb/cu ft (loose); 54.40 lb/cu ft (tapped)
Solubility	: Insoluble in water
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: Combustible dust
Oxidizing properties	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is friable and can create small dust particles during any handling, processing, and transfer operations. This material can form explosive dust/air suspensions that are ignitable under some conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. May form combustible dust concentrations in the air. Hazardous polymerization will not occur.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid dust formation.

10.5. Incompatible materials

Strong acids. Strong bases. Heat, sparks, open flame.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Zeta-cypermethrin (52315-07-8)	
LD50 oral rat	247 mg/kg
LD50 dermal rabbit	> 2460 mg/kg
LC50 inhalation rat (mg/l)	2.5 mg/l/4h

Bifenthrin (82657-04-3)	
LD50 oral rat	55 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	0.8 mg/l/4h

GHS-US Properties	Classification
Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	May cause an allergy or asthma symptoms or breathing difficulties if inhaled.
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

Potential health effects

General

Acute : Contact with bifenthrin may occasionally produce skin sensations such as rashes, numbing, burning or tingling. These skin sensations are reversible and usually subside within 12 hours.

Chronic : Bifenthrin: Long-term exposure caused neurotoxicity (tremors and impaired gait) in the early exposure in animal studies, but tremors disappeared with continued exposure.

Inhalation

Acute : Exposure to dust may cause nasal and respiratory irritation. Individuals with known allergies to peanuts may have an allergic reaction.

Skin

Acute : May cause mild mechanical irritation. Bifenthrin can cause feelings of burning, tingling or numbness in exposed areas (paraesthesia). Zeta-cypermethrin: Skin contact (vapor or powder) may be followed by transient tingling or numbness, usually of the face, but this subsides without treatment.

Eye

Acute : May cause mild mechanical irritation.

Ingestion

Acute : Under normal conditions of use, no health effects are expected. Large doses of zeta-cypermethrin, ingested by laboratory animals, may produce signs of toxicity including tremors, incoordination, convulsions, staggered gait, and oral discharge. Experience to date indicates that contact with zeta-cypermethrin may produce skin sensations such as numbing, burning or tingling. These sensations are reversible and usually subside within 12 hours.

Mutagenicity : Zeta-cypermethrin: Not genotoxic in laboratory tests. Bifenthrin: Not genotoxic in animal studies.

Carcinogenicity : Zeta-cypermethrin is not classified as a carcinogen by NTP, IARC or OSHA. Bifenthrin: is not classified as a carcinogen by NTP, IARC and OSHA.

Reproductive Effects : Zeta-cypermethrin is not a developmental or reproductive toxicant. Bifenthrin: Not teratogenic in animal experiments.

SECTION 12: Ecological information

12.1. Toxicity

Zeta-cypermethrin (52315-07-8)	
LC50 Acute fish 1	0.00039 mg/l (Exposure time: 96h - Rainbow trout)

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Zeta-cypermethrin (52315-07-8)	
LC50 Acute fish 2	0.00095 (Exposure time: 96h - Sheepshead minnow)
LC50 Acute crustacea 1	0.00000475 mg/l (Exposure time: 96h - Mysid shrimp)
LC50 Acute crustacea 2	0.0000036 mg/l (Exposure time: 48h - Hyalella Azteca)
NOEC Chronic fish 1	0.00014 mg/l (Fathead minnow)
NOEC Chronic crustacea 1	0.00000078 mg/l (Mysid shrimp)

Bifenthrin (82657-04-3)	
LC50 Acute fish 1	0.00035 mg/l (Exposure time: 96h - Bluegill sunfish)
LC50 Acute fish 2	0.00015 mg/l (Exposure time: 96h - Rainbow trout)
LC50 Acute crustacea 1	0.000004 mg/l (Exposure time: 96h - Mysid shrimp)
LC50 Acute crustacea 2	0.0016 mg/l (Exposure time: 48h - Daphnia magna)

12.2. Persistence and degradability

Zeta-cypermethrin (52315-07-8)	
Persistence and degradability	Zeta-cypermethrin: Non-persistent. Readily hydrolyzed. Not readily biodegradable.

Bifenthrin (82657-04-3)	
Persistence and degradability	Bifenthrin: Moderately persistent. Does not readily hydrolyze. Not readily biodegradable.

12.3. Bioaccumulative potential

Zeta-cypermethrin (52315-07-8)	
Bioaccumulative potential	Zeta-cypermethrin: The substance does not have a potential for bioconcentration.

Bifenthrin (82657-04-3)	
Bioaccumulative potential	Bifenthrin: has a potential for bioconcentration.

12.4. Mobility in soil

Zeta-cypermethrin (52315-07-8)	
Mobility in soil	Zeta-cypermethrin: Immobile. Not expected to reach groundwater.

Bifenthrin (82657-04-3)	
Mobility in soil	Bifenthrin: Immobile. Not expected to reach groundwater.

12.5. Other adverse effects

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Ecological Fate	This pesticide is extremely toxic to fish, aquatic invertebrates including oysters and shrimp.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

SECTION 14: Transport information

	UN number	Proper Shipping Name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	Not regulated	Not regulated	Not regulated	Not regulated	Not applicable
IMDG	UN3077	Packaging greater than 5 kg: Environmentally hazardous substance, solid, n.o.s (Bifenthrin and Zeta-cypermethrin)	9	III	Marine pollutant
IATA	UN3077	Packaging greater than 5 kg: Environmentally hazardous substance, solid, n.o.s (Bifenthrin and Zeta-cypermethrin)	9	III	Acute aquatic toxicity

SECTION 15: Regulatory information

15.1. US Federal regulations

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Bifenthrin (82657-04-3)	
Subject to reporting requirements of United States SARA Section 313	
SARA Section 313 - Emission Reporting	1 %
FIFRA Labelling	
EPA Registration Number	279-3346-71004
This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.	
FIFRA Signal word	Caution
FIFRA Hazards to Humans and Domestic Animals	Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear long-sleeved shirt and long pants, socks, shoes and gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.
FIFRA First Aid	IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. IF IN EYES: 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 immediately for treatment advice. NOTE TO PHYSICIAN: This product is a pyrethroid. If large amounts have been ingested, the stomach and intestine should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided.
FIFRA Environmental Hazards	This pesticide is extremely toxic to fish, aquatic invertebrates, oysters and shrimp. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Sweeping any product that lands on a driveway, sidewalk, or street, back onto the treated area of the lawn or garden will help to prevent run off to water bodies or drainage systems.

15.2. US State regulations

No additional information available

SECTION 16: Other information

Date of issue : 24 August 2016
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SDS US (GHS HazCom 2012) - CGP

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