

TechPac, LLC.
P.O. Box 24830 Lexington, KY 40524
Material Safety Data Sheet

GardenTech Sevin Lawn Insect Granules

This product is used by Homeowners and Professionals
March 2006 Product Code: 7201, 7202, 7204, 7205, 7206

1 - Chemical Product & Company Identification

Product Name: Garden Tech Sevin Lawn Insect Granules

EPA Product Number: 432-1212-71004

Chemical Name or Synonym: 1-Naphthalenol, Methylcarbamate

EPA FIFRA Registration Number: 432-1212-71004

Product Information: 800-969-7200 Medical Emergency: 800-420-9347

Transportation or Spill: 800-424-9300

2 - Composition/Information On Ingredients

<u>Component:</u>	<u>CAS Reg Number:</u>	<u>Percentage:</u>
Carbaryl	63-25-2	2.0
Other Ingredients (Trade Secret)		Balance

3 - Hazards Identification

Emergency Overview:

Physical Appearance and Odor: A brown granular solid
Nut-like odor

*CAUTION! HARMFUL IF SWALLOWED OR INHALED

*This product is extremely toxic to aquatic and estuarine invertebrates

Potential Health Effects:

Immediate Effects:

Skin: Harmful if absorbed through skin. May produce symptoms similar to those from ingestion.

Eyes: Causes moderate eye irritation.

Inhalation: Harmful if inhaled. May produce symptoms similar to those from ingestion.

Ingestion: Harmful if ingested. This product causes reversible cholinesterase inhibition. Repeated overexposure may cause more severe inhibition with more pronounced signs and symptoms. May lead to rapid onset of nausea, vomiting, diarrhea, abdominal pain, involuntary shaking, excessive salivation, pinpoint pupils, blurred vision, profuse sweating, temporary paralysis, respiratory depression, convulsions.

Delayed/Long Term Effects:

Carcinogenic: This product does not contain any ingredient designated by IARC, NTP, ACGIH, or OSHA as probable or suspected human carcinogens.

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3 - Hazards Identification - Continued

Medical Conditions Aggravated By Exposure:

Inhalation may aggravate existing chronic respiratory problems. Skin contact may aggravate existing skin disease.

4 - First Aid Measures

After contact with skin: Wash with plenty of soap and water. Get medical attention if symptoms occur.

After contact with eyes: Flush eyes with plenty of water. Get medical help if irritation persists.

After inhalation: Remove victim to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. Get medical attention.

After ingestion: Call a physician or Poison Control Center immediately. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting.

Hints for the physician: Carbaryl is a moderate, reversible, cholinesterase inhibitor. Atropine is antidotal.

5 - Fire Fighting Measures

Flammable Properties:

Flash Point: Not applicable

Hazardous Decomposition Materials (Under Fire Conditions):

Methyl isocyanate (trace; no adverse effects expected)
Oxides of nitrogen
Oxides of carbon

Advise on protection against fire and explosion:

Fire fighters should wear NOSH/approved self-contained breathing apparatus and full protective clothing. Keep unnecessary people away, isolate hazard area and deny entry. Evacuate residents who are downwind of fire. Do not scatter the material. Dike areas to prevent runoff and contaminate water sources. Persons who may have been exposed to contaminated smoke should be immediately examined by a physician and checked for symptoms of poisoning. Symptoms should not be mistaken for heat exhaustion or smoke inhalation.

Suitable extinguishing media:

Recommended (small fires): dry chemical, carbon dioxide
Recommended (large fires): water spray, alcohol foam, polymer foam

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6 - Accidental Release Measures

Environmental precautions: Containment of Spill:

Follow procedure described below under Cleanup and Disposal of Spill

Methods for cleaning up/taking up:

Evacuation Procedures and Safety:

Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.

Cleanup and Disposal of Spill:

Shovel up and place in an appropriate closed container (see Section 7: Handling and Storage).
Clean up residual material by washing area with water. Decontaminate tools and equipment following cleanup. Avoid creation of dusty conditions.

Environmental and Regulatory Reporting:

If spilled on the ground, the affected area should be removed to a depth of one or two inches and placed in an appropriate container for disposal. Runoff from fire control or dilution water may cause pollution. Prevent material from entering public sewer system or any waterways. Spills may be reportable to CHEMTREC (800-424-9300) and to state and/or local agencies.

7 – Handling and Storage

Handling:

- *Avoid breathing dust
- *Do not ingest
- *Avoid direct or prolonged contact with skin and eyes

Storage:

- *Store in original container in a cool, dry, place away from children and animals
- *Avoid excess heat
- *Do not contaminate water, food or feed by storage or disposal.

8 – Exposure Controls/Personal Protection

Introductory Remarks:

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations. Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers

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8 – Exposure Controls/Personal Protection - Continued

Additional advice on system design: Engineering Controls:

Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: general area dilution/exhaust ventilation.

Hygiene measures: Work Practice Controls:

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

- (1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics, in areas where this material is stored.
- (2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- (3) Wash exposed skin promptly to remove accidental splashes of contact with this material.

Personal Protective Equipment:

Body Protection:

Skin contact should be prevented through the use of long sleeve shirts, long pants, shoes plus socks and household or latex rubber gloves selected with regard for use conditions and exposure potential. Consideration must be given both to durability as well as permeation resistance. Wash outside of gloves before removing. Remove clothing as soon as possible after use.

Eye Protection:

Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material. Eye contact should be prevented through use of chemical safety glasses with side shields or splash proof goggles. An emergency eye wash must be readily accessible to the work area.

Respiratory Protection:

When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations. Under normal conditions, in the absence of other airborne contaminations, the following devices should provide protection from this material up to the conditions specified by the appropriate OSHA, WHMIS, or ANSI standards(s): Air purifying (half-mask/full face) respirator with cartridges/canister approved for use against dusts, mists, and fumes, pesticides. Under conditions immediately dangerous to life of health, or emergency conditions with unknown concentrations, use a full-face positive pressure air-supplied respirator equipped with an emergency escape air supply unit or use a self-contained breathing apparatus unit.

Exposure Guidelines:

Exposure limits represent regulated or recommended worker breathing zone concentrations measures by validating sampling and analytical methods, meeting the regulatory requirements. The following limits apply to this material, where, if indicated. s = skin and c = ceiling limit

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8 – Exposure Controls/Personal Protection - Continued

CARBARYL

	NOTES	TWA	STEL
ACGIH		5 mg/cu m	
OSHA		5 mg/cu m	
MFG		1 mg/cu m	

9 – Physical and Chemical Properties

Physical and chemical properties here represent typical properties of this product. Contact the business area using the Product Information Phone Number listed in Section 1 for its exact specifications.

Physical Appearance: dark brown/granular
Odor: nut like

Basic Physical Properties:

pH: Not available
Specific gravity: 0.5450 to 0.5770 g/ml at 20 degrees C
Water solubility: Miscible
Melting point range: Not available
Freezing point range: Not available
Boiling point range: Not available
Vapor pressure: Not available
Vapor density: Not available
Molecular weight: Not available

10 – Stability and Reactivity

Chemical Stability:

This material is stable under normal handling and storage conditions described in Section 7.
Elevated storage temperatures above 100 degrees C will lead to nonhazardous decomposition.

Conditions To Avoid:

- *Extreme heat
- *Open flame

Incompatibility: Materials/Chemicals To Be Avoided:

- *Strong acids
- *Strong oxidizing agents
- *Bases

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10 – Stability and Reactivity - Continued

Hazardous Decomposition Products:

Decomposition Type: THERMAL

*Methyl isocyanate (trace; no adverse effects expected)

*Oxides of nitrogen

*Oxides of carbon

Hazardous Polymerization:

Hazardous polymerization: Will not occur

11 – Toxicological Information

Toxicological Information and Interpretation:

Acute Oral Toxicity:

Rats

Males: LD50 = 3310 mg per kg of body weight (b.w.)

Females: LD50 = 2330 mg per kg (b.w.)

Combined: LD50 = 3240 mg per kg (b.w.)

Slightly toxic

Acute Eye Irritation:

Rabbit

Moderate eye irritation

Dermal Toxicity:

Rabbit

Males: LD50 > 2000 mg per kg of body weight (b.w.)

Females: LD50 > 2000 mg per kg b.w.

Combined: LD50 > 2000 mg per kg b.w.

Moderately toxic

Acute Skin Irritation:

Rabbit

Non-irritating

Skin Sensitization:

Guinea pig

Non-sensitizing

Acute Inhalation Effects:

Rats

Inhalation LC50: > 4.9 mg/L

Practically non-toxic

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12 – Ecological Information

Ecotoxicological Information:

The following data is based on the technical grade active ingredient (Carbaryl):

LC50 – lethal concentration 50% of test species, >5000 mg/kg/8 days

Mallard ducks (*Anas platyrhynchos*)

Dietary considerations

LC50 – lethal concentration 50% of test species, >5000 mg/kg/8 days

Bobwhite quail (*Colinus virginianus*)

Dietary considerations

LC50 – lethal concentrations 50% of test species, 1950 ug/1/96 hr

Rainbow trout (*Oncorhynchus mykiss*)

Dietary considerations

LC50 – lethal concentrations 50% of test species, 6760 ug/1/96 hr

Bluegill sunfish (*Lepomis macrochirus*)

Dietary considerations

For chemical fate data call the product information phone number listed in Section 1.

This product is extremely toxic to aquatic and estuary invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark.

13 – Disposal Information

Waste Disposal Method:

Chemical additions, processing, or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate, or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

EPA Hazardous Waste: Yes

14 – Transport Information

For transportation regulatory information call the product information phone number listed in Section 1.

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15 – Regulatory Information

State Regulations:

The following chemicals associated with the product are subject to the right-to-know regulations in these states:
No components regulated

U.S. Federal Regulations:

TSCA inventory statues

These components are not listed: Sevin® Brand RP2 Carbaryl Insecticide 100%

SARA Title III Hazard Class:

Fire Hazard	-	No
Reactive Hazard	-	No
Release of Pressure	-	No
Acute Health Hazard	-	Yes
Chronic Health Hazard	-	Yes

SARA 313 Chemicals:

Carbaryl (21.3%)

SARA EXTREMELY HAZARDOUS SUBSTANCES (EHS)/CERCLA HAZARDOUS SUBSTANCES

Ingredient	CERCLA/SARA RQ: SARA EHA TPQ:
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Carbaryl	100 lbs.
SARA 313	No components listed

16 – Other Information

Label Text:

Key Legend Information:

ACGIH	-	American Conference of Governmental Industrial Hygienists
OSHA	-	Occupational Safety and Health Administration
TLV	-	Threshold Limit Value
PEL	-	Permissible Exposure Limit
TWA	-	Time Weighted Average
STEL	-	Short Term Exposure Limit
NTP	-	National Toxicology Program
IARC	-	International Agency for Research on Cancer
ND	-	Not Determined
MFG	-	Manufacturing Limit

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16 – Other Information - Continued

Hazard Ratings:

National Fire Protection Association Hazard Ratings - NFPA®

2 – Health Hazard Rating – Moderate

1 – Flammability Rating – Slight

1 – Instability Rating – Slight

National Paint & Coating Hazardous Materials Identification:

2 – Health Hazard Rating – Moderate

1 – Flammability Rating – Slight

1 – Reactivity Rating – Slight

Disclaimer:

The information herein is given in good faith but no warranty, expressed or implied is made.