Gro Tec, Inc.

P.O. Box 290 Madison, Ga 30650

Material Safety Data Sheet

Eliminator Sevin 10% Dust

This product is used by Homeowners and Professionals

MSDS No. ELI-39 October 2001

SECTION 1 - PRODUCT IDENTIFICATION

Emergency Phone Number: 800-424-9300

Poison Control Center: Atlanta: 1-800-282-5846

EPA Reg. Number: 432-1210-59144

Chemical Name: Carbaryl: 1-Naphthyl N-methylcarbamate

Trade Names: Sevin® Brand Carbaryl Insecticide

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SECTION 2 - COMPOSITION

Component	Percentage	ACGIH Exposure Limit	OSHA Exposure Limit
Carbaryl [63-25-2]	10%	TLV - 5 mg/m^3	PEL - 5 mg/m^3
Quartz [14808-60-7]	42 – 52%	0.1 mg/m^3 from respirable fraction	TWA respirable fraction formula = 10 mg/m^3/% SiO_2 + 2
Mica [12001-26-2]	11 – 19%	None established	3 mg/m^3 from respirable fraction
Kaolin Clay [1332-58-7]	< 1%	None established	5 mg/m^3 from respirable fraction
Pyrophyllite [12269-78-2]	> 30%	None established	15 mg/m^3 total dust 5 mg/m^3 respirable dust

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SECTION 3 - HEALTH HAZARD DATA

EMERGENCY OVERVIEW

A tan to brown powder with a slight chemical odor that is:

- Harmful if swallowed.
- May cause mechanical eye or skin irritation in high concentrations.
- Prolonged inhalation may cause lung injury.
- Extremely toxic to aquatic and estuarine invertebrates.

ROUTE(S) OF ENTRY: Ingestion, inhalation, and skin contact.

EYES: May mechanical irritation in high concentrations.

SKIN: May cause mechanical skin irritation in high concentrations.

INGESTION: Harmful if swallowed.

INHALATION: May cause irritation of the eyes, nose, throat and mucus membranes upon inhalation of dust. Prolonged inhalation may cause lung injury.

SIGNS AND SYMPTOMS: This product causes reversible cholinesterase inhibition. Overexposure to this product may lead to rapid onset of nausea, vomiting, abdominal pain, diarrhea, pinpoint pupils, blurred vision, profuse sweating, salivation, tremors, muscle twitching, and temporary paralysis. In severe poisoning, respiratory depression and convulsion may occur.

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SECTION 4 - FIRST AID

IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger or blunt object. Do not induce vomiting or give anything by mouth to an unconscious person.

IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

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

NOTE TO PHYSICIAN: Carbaryl is a moderate reversible cholinesterase inhibitor. Atropine is antidotal. DO NOT use 2-PAM, opiates, or cholinesterase-inhibiting drugs.

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SECTION 5 - FIRE & EXPLOSION HAZARDS

FLASH POINT: Dry mixture >500^0 F

EXTINGUISHING MEDIA: Water Fog; CO_2 or Chemical Foam

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Keep unnecessary people away, isolate hazard area and deny entry. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

UNUSUAL FIRE OR EXPLOSION HAZARDS: None known

HAZARDOUS DECOMPOSITION MATERIALS (Under Fire Conditions): Nitrogen oxides, Carbon oxides and Methyl isocyanate (trace amounts, no adverse health effects expected).

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SECTION 6 - SPILL AND LEAK PROCEDURES

SMALL SPILL: Put spilled solid in a waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and state regulation. Decontaminate tools and equipment following cleanup. Avoid creation of dusty conditions.

LARGE SPILL: Use a shovel to put the material into a proper waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and state regulations.

ENVIRONMENTAL AND REGULATORY REPORTING: If spilled on the ground, the affected area should be scraped clean and placed in an appropriate container for disposal. Runoff from dilution water may cause pollution. Prevent material from entering public sewer system or any waterways.

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SECTION 7 - STORAGE & HANDLING

Storage: Store in original container. Store in an area that is cool, dry, away from foodstuffs or animal feed, out of reach of children and animals.

Storage Temperatures: Normal warehouse temperatures <100 degrees F.

Handling: Avoid contact with eyes, skin or clothing. Avoid breathing dust. Was thoroughly with soap and water after handling.

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SECTION 8 - SPECIAL PROTECTION INFORMATION

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, use ventilation to keep exposure to airborne contaminants below the exposure limit. If local exhaust is used, a capture velocity of 150-200 fpm is recommended.

RESPIRATORY PROTECTION: When airborne concentrations meet or exceed regulated limits, use a NIOSH/MSHA approved cartridges/canisters approved for use against pesticides

EYE/FACE PROTECTION: Chemical safety glasses with side shields or splash-proof goggles.

SKIN PROTECTION: Chemical-resistant gloves.

OTHER PROTECTION: Long-sleeved shirt and long pants. Shoes plus socks.

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SECTION 9 - PHYSICAL DATA

Physical Form: Solid	Color: Natural peanut shell tan/brown	Odor: Slight Chemical
Vapor Pressure: N/E Not available	Bulk Density: 33 lbs/ft^3	Specific Gravity: Not available
Melting Point: Not available	pH: Not available	Water Solubility: Insoluble

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SECTION 10 - REACTIVITY DATA

Stability: Stable. Polymerization: Will not occur

Conditions To Avoid: Elevated storage above temperatures 100 degrees will lead to non-hazardous decomposition. Keep containers closed. Store product in garage or shed; not in home. Keep out of reach of children.

Decomposition Products: Dense smoke presents breathing problem. Self contained breathing apparatus may be required in containing fire. Nitrogen oxides, Carbon Monoxide and Dioxide will form in fire conditions.

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SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE INGESTION: Not available
ACUTE ABSORPTION: Not available
ACUTE INHALATION: Not available
EYE IRRITATION(rabbit): Not available
SKIN IRRITATION (rabbit): Not available
DERMAL SENSITIZATION (guinea pig): Not available
CHRONIC TOXICITY:

Carbaryl has been shown to cause tumors in laboratory animals in lifetime feeding studies. Carbaryl, when administered by various routes, at doses toxic to the maternal animals, has been shown to produce developmental toxicity in a number of species. Carbaryl produces no teratogenic effects in the absence of maternal toxicity.

Pyrophyllite: Sparse literature specifically addressing pyrophyllite dust exposures are complicated by concurrent silica exposures. Absent free silica, a low category pneumoconiosis (with little respiratory disability) is probable in prolonged, high dust concentrations.

Kaolin: Published literature suggests that extremely high exposures to kaolin dust over a prolonged period of time can lead to a low category pneumoconiosis (with little respiratory disability) in a small number of workers.

Crystalline Silica: Overexposure to respirable crystalline silica dust can cause silicosis, a form of progressive pulmonary fibrosis. "Inhalable" crystalline silica (quartz) is listed as a Group 1 carcinogen (lung) based on "sufficient evidence" in occupationally exposed humans and sufficient evidence in animals. Crystalline silica is also listed by the NTP as a substance reasonably anticipated to be a carcinogen. Some studies have not demonstrated a cancer association and considerable controversy exists concerning the IARC and NTP classification.

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SECTION 12 - ECOLOGICAL INFORMATION

This product is extremely toxic to aquatic and estuarine invertebrates. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark, except under the forest canopy and use on rice. Discharge from rice fields may kill aquatic and estuarine invertebrates. Do not contaminate water by cleaning of equipment or disposal of wastes. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

ECOTOXICOLOGICAL INFORMATION: The following data is based on the technical grade active ingredient (TGAI).

Dietary concentration Mallard duck LC_{50} > 5,000 mg/kg/8 days
Dietary concentration Bobwhite Quail LC_{50} > 5,000 mg/kg/8 days
Rainbow trout LC_{50} = 1,950 ug/l/96 hr
Bluegill sunfish LC_{50} = 6,760 ug/l/96 hr

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SECTION 13 - DISPOSAL

Wastes resulting from this product may be disposed of on site or at an approved waste disposal facility. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. For containers one pound or less: Do not reuse container. Wrap and discard in trash.

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SECTION 14 - TRANSPORTATION

Proper Shipping Name: GardenTech Sevin-5 Ready-to-Use 5% Dust Bug Killer
Technical Name (if applicable):
UN Initial & Number: Not regulated Class: Packing Group: RQ: Not required
Hazard Labels: None required

SECTION 15 - REGULATORY INFORMATION

FEDERAL REGULATIONS:

TSCA Inventory Status: This product is excluded from TSCA because it is solely for FIFRA regulated use

SARA Title III Hazard Classes:

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

SARA Title III Section 313: Carbaryl, CAS# 63-25-2, 5% is a SARA Title III, Section 313 Chemical.

CERCLA; Reportable Quantity: Carbaryl, 100 lbs., 2000 lbs of product

IARC, NTP, OSHA Carcinogens: Quartz (IARC and NTP)

STATE REGULATIONS:

California Proposition 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: **Quartz**

Pennsylvania RTK: Quartz

Florida: Quartz

Minnesota: Quartz

Massachusetts: Quartz

New Jersey: Quartz

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SECTION 16 - OTHER INFORMATION

NOTICE FROM GRO TEC, INC.

The information contained herein is offered only as a guide to the handling of this specific material. Since such information does not relate to use of the material with any other material or in any process, any person using this information must determine for himself its suitability for any particular application. The buyer and user assumes all risk and liability of use, storage and/or handling of this product not in accordance with the terms of the product label.

ABBREVIATIONS KEY:
N/A = Not available or applicable
N/E = Not established
TLV=Threshold Limit Value
PEL= Permissible Exposure Limit