

GardenTech Sevin-5-Ready-To-Use 5% Dust

Safety Data Sheet

Date of issue: 01/01/2015

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Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : GardenTech Sevin-5-Ready-To-Use 5% Dust
Synonyms : EPA Reg. No.: 432-1209-71004

1.2. Recommended use and restrictions on use

Recommended use : Insecticide.
Restrictions on use : Keep out of reach of children. Avoid contact with eyes, skin or clothing. Avoid breathing dust.

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

Carcinogenicity Category 1A : May cause cancer
Specific target organ toxicity (repeated exposure) Category 1 : Causes damage to organs through prolonged or repeated exposure

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 cause cancer
Causes damage to organs through prolonged or repeated exposure (lungs)
Precautionary statements (GHS US) : Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wash hands, forearms and face thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/protective clothing/eye protection/face protection.
If exposed or concerned: Get medical advice/attention.
Get medical advice/attention if you feel unwell.
Store locked up.
Dispose of contents/container to in accordance with local/regional/national/international regulations.

2.3. Other hazards which do not result in classification

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

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2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % |
|--|----------------------|---------|
| Carbaryl (1-naphthyl N-methylcarbamate) | (CAS-No.) 63-25-2 | 5 |
| Kaolin | (CAS-No.) 1332-58-7 | 46.5 |
| Limestone | (CAS-No.) 1317-65-3 | 46.2 |
| Silica, crystalline - quartz | (CAS-No.) 14808-60-7 | 1 |
| Titanium dioxide | (CAS-No.) 13463-67-7 | 1 |
| 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 after inhalation | : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. |
| First-aid measures after skin contact | : IF ON SKIN: Wash with plenty of soap and water. Wash skin with plenty of water. Take off contaminated clothing. 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 | : The product inhibits cholinesterase resulting in stimulation of the central nervous system, the parasympathetic nervous system, and the somatic motor nerves. |
| Symptoms/effects after inhalation | : Harmful if inhaled. |
| Chronic symptoms | : Causes damage to lungs, silicosis through prolonged or repeated exposure via inhalation. May cause cancer. |

4.3. Immediate medical attention and special treatment, if necessary

This product is a N-methyl carbamate and is a cholinesterase inhibitor. CARBARYL is an N-methyl carbamate insecticide which is a cholinesterase inhibitor. Specific antidote consists of atropine. Narcotics and other sedatives should not be used. Drugs like 2-PAM (pyridine-2-aldoxime methiodide) are NOT recommended. Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Avoid heavy hose streams. |

5.2. Specific hazards arising from the chemical

| | |
|------------|--|
| Reactivity | : The product is non-reactive under normal conditions of use, storage and transport. |
|------------|--|

5.3. Special protective equipment and precautions for fire-fighters

| | |
|--------------------------------|---|
| Firefighting instructions | : As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Do not allow fire fighting water to escape into waterways or sewers. Do not use direct stream of water. A direct stream of water may spread fire. Ventilate closed spaces before entering. Do not breathe gas/fumes/vapor/spray. Keep unauthorized personnel away. |
| 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

| | |
|----------------------|--|
| Emergency procedures | : Only qualified personnel equipped with suitable protective equipment may intervene. Avoid dust formation. Do not breathe dust. |
|----------------------|--|

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6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. Positive pressure self-contained breathing apparatus (SCBA). For further information refer to section 8: Exposure controls/personal protection.
- Emergency procedures : Avoid dust formation. Do NOT wash away into sewer. Avoid release to the environment. Evacuate unnecessary personnel. Stay upwind. Stop release. Ventilate area. Wear appropriate personal protective equipment, avoid direct contact.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Sweep or scoop spills, dispose of any unusable material in approved landfill. Use appropriate PPE.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Provide local exhaust or general room ventilation. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust.
- Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. 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 : Store locked up. Store in a well-ventilated place. Keep cool. Avoid humid, wet or moist conditions. Store in a dry place. Keep container tightly closed.
- Incompatible materials : Strong acids. Strong oxidizers.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Carbaryl (1-naphthyl N-methylcarbamate) (63-25-2) | | |
|---|--------------------------------------|---|
| ACGIH | ACGIH TWA (mg/m ³) | 0.5 mg/m ³ (inhalable fraction and vapor) |
| ACGIH | Remark (ACGIH) | Cholinesterase inhib; male |
| OSHA | OSHA PEL (TWA) (mg/m ³) | 5 mg/m ³ |
| IDLH | US IDLH (mg/m ³) | 100 mg/m ³ |
| NIOSH | NIOSH REL (TWA) (mg/m ³) | 5 mg/m ³ |
| Kaolin (1332-58-7) | | |
| ACGIH | ACGIH TWA (mg/m ³) | 2 mg/m ³ (particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter) |
| ACGIH | Remark (ACGIH) | Pneumoconiosis |
| OSHA | OSHA PEL (TWA) (mg/m ³) | 15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction) |
| NIOSH | NIOSH REL (TWA) (mg/m ³) | 10 mg/m ³ (total dust) 5 mg/m ³ (respirable dust) |
| Limestone (1317-65-3) | | |
| OSHA | OSHA PEL (TWA) (mg/m ³) | 15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction) |
| NIOSH | NIOSH REL (TWA) (mg/m ³) | 10 mg/m ³ (total dust) 5 mg/m ³ (respirable dust) |
| Silica, crystalline - quartz (14808-60-7) | | |
| ACGIH | ACGIH TWA (mg/m ³) | 0.025 mg/m ³ (respirable particulate matter) |
| OSHA | OSHA PEL (TWA) (mg/m ³) | 50 µg/m ³ |
| IDLH | US IDLH (mg/m ³) | 50 mg/m ³ (respirable dust) |

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| Silica, crystalline - quartz (14808-60-7) | | |
|---|--------------------------------------|--|
| NIOSH | NIOSH REL (TWA) (mg/m ³) | 0.05 mg/m ³ (respirable dust) |
| Titanium dioxide (13463-67-7) | | |
| ACGIH | ACGIH TWA (mg/m ³) | 10 mg/m ³ |
| ACGIH | Remark (ACGIH) | LRT irr; A4 (Confirmed Animal Carcinogen with Unknown Relevance to Humans: The agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) that may not be relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure) |
| OSHA | OSHA PEL (TWA) (mg/m ³) | 15 mg/m ³ (total dust) |
| IDLH | US IDLH (mg/m ³) | 5000 mg/m ³ |

8.2. Appropriate engineering controls

Appropriate engineering controls : Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear long-sleeved shirt, long pants, socks and shoes

Respiratory protection:

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



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Physical state | : Solid |
| Appearance | : Light tan to brown powder |
| Color | : Light tan to brown |
| Odor | : No data available |
| Odor threshold | : No data available |
| pH | : 9.0 - 9.5 @ 25 °C (77 °F) (10% aq soln) |
| 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 |

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| | |
|---|------------------------------|
| Relative density | : No data available |
| Bulk density | : 47 - 57 lb/ft ³ |
| Solubility | : Insoluble |
| 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 | : Not explosive |
| Oxidizing properties | : Not applicable |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Hazardous polymerization will not occur.

10.4. Conditions to avoid

Avoid dust formation. Avoid extreme temperatures. Avoid humid, moist or wet conditions.

10.5. Incompatible materials

Strong acids. Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. May decompose upon heating to produce toxic vapors/gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| GardenTech Sevin-5-Ready-To-Use 5% Dust | |
|---|--|
| LD50 oral rat | 3240 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| LC50 inhalation rat (mg/l) | 4.9 mg/l/4h (Determined in the form of dust) |

Silica, crystalline - quartz (14808-60-7)

Listed on IARC (International Agency for Research on Cancer), Listed as carcinogen on NTP (National Toxicology Program)

| | |
|---|----------------------------|
| IARC group | 1 - Carcinogenic to humans |
| National Toxicity Program (NTP) Status | Known Human Carcinogens |
| In OSHA Hazard Communication Carcinogen list? | Yes |

Titanium dioxide (13463-67-7)

| | |
|---|--------------------------------------|
| IARC group | 2B - Possibly carcinogenic to humans |
| In OSHA Hazard Communication Carcinogen list? | Yes |

| 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 | Not classified |
| Germ cell mutagenicity | Not classified |
| Carcinogenicity | May cause cancer. |

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| | |
|--|---|
| Reproductive toxicity | Not classified |
| Specific target organ toxicity (single exposure) | Not classified |
| Specific target organ toxicity (repeated exposure) | Causes damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | Not classified |

Potential health effects

General

Acute : Carbaryl: Exposure may cause convulsions, nausea, vomiting, diarrhea. Carbaryl is an N-methyl carbamate that inhibits cholinesterase.

Inhalation

Acute : Harmful if inhaled. Acute Silicosis can occur with exposures to very high concentrations of respirable crystalline silica over a very short time period, sometimes as short as a few months. The symptoms of acute silicosis include progressive shortness of breath, fever, cough and weight loss. This product causes reversible cholinesterase inhibition without long term effects. Repeated overexposure may cause more severe cholinesterase inhibition with more pronounced symptoms. May lead to rapid onset of nausea, vomiting, diarrhea, abdominal pain, involuntary shaking, excess salivation, pinpoint pupils, blurred vision, profuse sweating, temporary paralysis, respiratory depression, and convulsions.

Chronic : Repeated and prolonged exposure to crystalline silica containing materials may cause irritation and/or lung damage silicosis, fibrosis, inflammation, cancer.

Skin

Acute : Exposure to dust may cause mechanical irritation.

Eye

Acute : May cause mild eye irritation.

Ingestion

Acute : Harmful if swallowed. This product causes reversible cholinesterase inhibition without long term effects. Repeated overexposure may cause more severe cholinesterase inhibition with more pronounced symptoms. May lead to rapid onset of nausea, vomiting, diarrhea, abdominal pain, involuntary shaking, excess salivation, pinpoint pupils, blurred vision, profuse sweating, temporary paralysis, respiratory depression, and convulsions.

Mutagenicity : Carbaryl was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

Carcinogenicity : Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. Titanium dioxide is classified as a possible carcinogen Group 2B by IARC.

Reproductive Effects : Carbaryl did not cause developmental or reproductive toxicity in lab tests.

SECTION 12: Ecological information

12.1. Toxicity

| Carbaryl (1-naphthyl N-methylcarbamate) (63-25-2) | |
|---|--|
| LC50 Acute fish 1 | 3.3 mg/l (Exposure time: 96 h - Species: Rainbow trout) |
| LC50 Acute fish 2 | 6.76 mg/l (Exposure time: 96 h - Species: Blue gill) |
| EC50 Acute crustacea 1 | 0.0164 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| Threshold limit algae 1 | 1.75 mg/l Growth rate (Exposure time: 72 h) |

12.2. Persistence and degradability

| Carbaryl (1-naphthyl N-methylcarbamate) (63-25-2) | |
|---|------------------------|
| Persistence and degradability | Rapidly biodegradable. |

12.3. Bioaccumulative potential

| Carbaryl (1-naphthyl N-methylcarbamate) (63-25-2) | |
|---|-------------------------|
| Bioaccumulative potential | Does not bioaccumulate. |

12.4. Mobility in soil

| Carbaryl (1-naphthyl N-methylcarbamate) (63-25-2) | |
|---|--------------------------|
| Mobility in soil | Slightly mobile in soils |

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12.5. Other adverse effects

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| | |
|-----------------|---|
| Ecological Fate | This pesticide is toxic to fish and other aquatic organisms. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. |
|-----------------|---|

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 | RQ: Carbaryl = 100 lbs. |
| IMDG | UN3077 | Packaging greater than 5 kg: Environmentally hazardous substance, solid, n.o.s. (Carbaryl) | 9 | III | Marine pollutant |
| IATA | UN3077 | Packaging greater than 5 kg: Environmentally hazardous substance, solid, n.o.s. (Carbaryl) | 9 | III | Acute aquatic toxicity |

SECTION 15: Regulatory information

15.1. US Federal regulations

Carbaryl (1-naphthyl N-methylcarbamate) (63-25-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313

CERCLA RQ 100 lb

SARA Section 313 - Emission Reporting 1 %

Kaolin (1332-58-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Limestone (1317-65-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Silica, crystalline - quartz (14808-60-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Titanium dioxide (13463-67-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

FIFRA Labelling

EPA Registration Number 432-1209-71004

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 Precautionary Statement **KEEP OUT OF REACH OF CHILDREN.**

FIFRA Hazards to Humans and Domestic Animals Harmful if swallowed. Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove contaminated clothing before reuse.

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| FIFRA First Aid | <p>This product is a N-methyl carbamate and is a cholinesterase inhibitor. If swallowed: Call 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 on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.</p> <p>NOTE TO PHYSICIAN: CARBARYL is an N-methyl carbamate insecticide which is a cholinesterase inhibitor. Specific antidote consists of atropine. Narcotics and other sedatives should not be used. Drugs like 2-PAM (pyridine-2-aldoxime methiodide) are NOT recommended.</p> |
| FIFRA Environmental Hazards | <p>This pesticide is extremely toxic to aquatic invertebrates. 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.</p> <p>BEE CAUTION: MAY KILL HONEY BEES AND OTHER BEES. This product is highly toxic to honey bees and other bees. Do not apply to plants in bloom.</p> |

15.2. US State regulations

| Carbaryl (1-naphthyl N-methylcarbamate) (63-25-2) | | | | |
|---|---|---|---|----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| Yes | Yes | Yes | Yes | |
| Silica, crystalline - quartz (14808-60-7) | | | | |
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| Yes | No | No | No | |
| Titanium dioxide (13463-67-7) | | | | |
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| Yes | No | No | No | |

SECTION 16: Other information

Date of issue : 01 January 2015
 Revision date : 28 May 2020

SDS US (GHS HazCom 2012) - CGP

The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.