SAFETY DATA SHEET

GARDEN TECH® SEVIN®-5 READY-TO-USE 5% DUST

January 2015

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier
Trade name GARDEN TECH® SEVIN®-5 READY-TO-USE 5% DUST

EPA Reg. No. 432-1209-71004

Relevant identified uses of the substance or mixture and uses advised against
Use Insecticide
Restrictions on use See product label for restrictions.

Information on manufacturer
TechPac, LLC.
1000 Parkwood Circle
Suite 700
Atlanta, GA 30339

Emergency telephone no.
Emergency Telephone Number (24hr/ 7 days) 1-800-420-9347
Product Information Telephone Number 1-866-945-5033
SDS Information or Request 1-866-945-5033

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200
Carcinogenicity : Category 2

Signal word: Warning

Hazard statements
Suspected of causing cancer.

Precautionary statements
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
IF exposed or concerned: Get medical advice/ attention.
Store locked up.
Dispoce of contents/container in accordance with local regulation.

Other hazards
This product contains an cholinesterase inhibitor.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Component Name</th>
<th>CAS-No.</th>
<th>Concentration % by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbaryl</td>
<td>63-25-2</td>
<td>5.00</td>
</tr>
<tr>
<td>Crystalline quartz (respirable)</td>
<td>14808-60-7</td>
<td>9.20</td>
</tr>
<tr>
<td>Calcium carbonate</td>
<td>471-34-1</td>
<td>45.00</td>
</tr>
<tr>
<td>Magnesium carbonate</td>
<td>546-93-0</td>
<td>1.60</td>
</tr>
</tbody>
</table>

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General advice
When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

Inhalation
Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.

Skin contact
Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.

Eye contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.

Ingestion
Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

Most important symptoms and effects, both acute and delayed

Symptoms
Temporary blurred vision due to contraction of the pupils (miosis) following contact with the eyes., Bradycardia, Low blood pressure, Salivation, Bronchial hypersecretion, Vomiting, Diarrhoea, Sweating, Muscular fasciculation, Spasm, Breathing difficulties, Respiratory paralysis, Somnolence, Coma, Respiratory failure, Hypothermia, Convulsions, Nausea

Indication of any immediate medical attention and special treatment needed

Risks
This product is a cholinesterase inhibitor carbamate.
Treatment

The product inhibits cholinesterase resulting in stimulation of the central nervous system, the parasympathetic nervous system, and the somatic motor nerves.

The following antidote is generally accepted: atropine.

Do not use oximes such as 2-PAM unless organophosphate intoxication is suspected. Watch for pulmonary edema, which may develop in serious cases of poisoning even after 24-48 hours. At first sign of pulmonary edema, the patient should be placed in an oxygen tent and treated symptomatically. Contraindications: derivatives of morphine.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable

Water spray, Foam, Dry chemical, Carbon dioxide (CO2)

Unsuitable

None known.

Special hazards arising from the substance or mixture

Dangerous gases are evolved in the event of a fire.

Advice for firefighters

Special protective equipment for fire-fighters

Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

Further information

Cool closed containers exposed to fire with water spray. Fight fire from upwind position. Keep out of smoke. Do not allow run-off from fire fighting to enter drains or water courses. Whenever possible, contain fire-fighting water by diking area with sand or earth.

Flash point

not applicable

Autoignition temperature

no data available

Lower explosion limit

not applicable

Upper explosion limit

not applicable

Explosivity

no data available

Dust explosion class

no data available
SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Precautions
Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

Methods and materials for containment and cleaning up

Methods for cleaning up
Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.

Additional advice
Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal.

Reference to other sections
Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling
Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation. Handle and open container in a manner as to prevent spillage.

Hygiene measures
Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.
Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers
Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Advice on common storage
Keep away from food, drink and animal feedingstuffs.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
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<tbody>
<tr>
<td>Carbaryl</td>
<td>63-25-2</td>
<td>0.5 mg/m3</td>
<td>02 2012</td>
<td>ACGIH</td>
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<tr>
<td>Substance</td>
<td>Concentration</td>
<td>Year</td>
<td>Source</td>
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<td>------------------------------------------------</td>
<td>---------------</td>
<td>------</td>
<td>-----------------</td>
<td></td>
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<tr>
<td>Carbaryl (Inhalable fraction and vapor.)</td>
<td>5 mg/m³</td>
<td>2010</td>
<td>NIOSH</td>
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<tr>
<td>Carbaryl</td>
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<td>02 2006</td>
<td>OSHA Z1</td>
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<tr>
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<td>OSHA Z1A</td>
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<tr>
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<td>OSHA Z1A</td>
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<tr>
<td>Carbaryl</td>
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<td>06 2008</td>
<td>TN OEL</td>
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<tr>
<td>Carbaryl</td>
<td>5 ug/m³ (ST ESL)</td>
<td>07 2011</td>
<td>TX ESL</td>
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</table>
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<table>
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<tr>
<th>(Total dust.)</th>
<th>(TWA)</th>
<th>1989</th>
<th>OSHA Z1A</th>
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<td>50 μg/m³ (ST ESL)</td>
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</table>

*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

Exposure controls

**Personal protective equipment**
In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

**Respiratory protection**
When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations. Under conditions immediately dangerous to life or 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.

**Hand protection**
Chemical resistant nitrile rubber gloves

**Eye protection**
Safety glasses with side-shields

**Skin and body protection**
Wear long-sleeved shirt and long pants and shoes plus socks.

**General protective measures**
Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance**
light tan to brown

**Physical State**
powder

**Odor**
slight

**Odour Threshold**
no data available
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<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>pH</td>
<td>9.0 - 9.5 at 10 % (25 °C) aqueous suspension</td>
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<tr>
<td>Vapor Pressure</td>
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<tr>
<td>Vapor Density (Air = 1)</td>
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<tr>
<td>Bulk density</td>
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<tr>
<td>Evaporation rate</td>
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<tr>
<td>Boiling Point</td>
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<tr>
<td>Melting / Freezing Point</td>
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<tr>
<td>Water solubility</td>
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<tr>
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<td>Partition coefficient: n-octanol/water</td>
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<tr>
<td>Dust explosion class</td>
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SECTION 10: STABILITY AND REACTIVITY

Reactivity

Thermal decomposition | no data available
Chemical stability    | Stable under recommended storage conditions.
Possibility of hazardous reactions | No hazardous reactions when stored and handled according to prescribed instructions.
Conditions to avoid: Elevated temperatures, heat, flames and sparks.

Incompatible materials: Strong acids, bases.

Hazardous decomposition products: Thermal decomposition can lead to release of:
- Nitrogen oxides (NOx)
- Carbon oxides
- Methyl isocyanate (trace; no adverse effects expected)

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Ingestion, Inhalation, Eye contact, Skin absorption

Immediate Effects:

Eye: Causes eye irritation.

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

Ingestion: 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.

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

Information on toxicological effects:

Acute oral toxicity:
- LD50 (male rat) 3,310 mg/kg
- LD50 (female rat) 2,330 mg/kg
- LD50 (male/female combined rat) 3,240 mg/kg

Acute inhalation toxicity:
- LC50 (rat) > 4.9 mg/l
  Exposure time: 4 h
  Determined in the form of dust.
- LC50 (rat) > 19.6 mg/l
  Exposure time: 1 h
  Determined in the form of dust.
  Extrapolated from the 4 hr LC50.

Acute dermal toxicity: LD50 (rabbit) > 2,000 mg/kg

Skin irritation: No skin irritation (rabbit)

Eye irritation: Mild eye irritation. (rabbit)

Sensitisation: Non-sensitizing. (guinea pig)
Assessment repeated dose toxicity
Carbaryl caused reversible cholinesterase inhibition without long term effects in animal studies.

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

Assessment Carcinogenicity
Carbaryl caused at high dose levels an increased incidence of tumours in the following organ(s): liver, thyroid, kidneys, cardio-vascular system. The mechanism that triggers tumours in rodents is not relevant for the low exposures encountered under normal use conditions.

ACGIH
Carbaryl 63-25-2 Group A4
Crystalline quartz (respirable) 14808-60-7 Group A2

NTP
Crystalline quartz (respirable) 14808-60-7 2000

IARC
Carbaryl 63-25-2 Overall evaluation: 3
Crystalline quartz (respirable) 14808-60-7 Overall evaluation: 1

OSHA
None.

Assessment toxicity to reproduction
Carbaryl did not cause reproductive toxicity in a two-generation study in rats.

Assessment developmental toxicity
Carbaryl did not cause developmental toxicity in rats and rabbits.

Further information
Acute toxicity studies have been bridged from a similar formulation(s). The non-acute information pertains to the active ingredient(s).

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish
LC50 (Oncorhynchus mykiss (rainbow trout)) 3.3 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient carbaryl.

Toxicity to aquatic invertebrates
EC50 (Daphnia magna (Water flea)) 0.0164 mg/l
Exposure time: 48 h
The value mentioned relates to the active ingredient carbaryl.
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Toxicity to aquatic plants
EC50 (Pseudokirchneriella subcapitata) 1.75 mg/l
Growth rate; Exposure time: 72 h
The value mentioned relates to the active ingredient carbaryl.

Biodegradability
Carbaryl: rapidly biodegradable

Koc
Carbaryl: Koc: 624

Bioaccumulation
Carbaryl: Bioconcentration factor (BCF) 44; Does not bioaccumulate.

Mobility in soil
Carbaryl: Slightly mobile in soils

Environmental precautions
Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark.
Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.
Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites.
Apply this product as specified on the label.
Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods
Product
It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines.
Never place unused product down any indoor or outdoor drain.

Contaminated packaging
Completely empty container into application equipment, then dispose of empty container in a sanitary landfill, by incineration or by other procedures approved by state/provincial and local authorities.
If burned, stay out of smoke.
Follow advice on product label and/or leaflet.

RCRA Information
Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

SECTION 14: TRANSPORT INFORMATION

49CFR
UN number 3077
Class 9
Packaging group III
Marine pollutant Marine pollutant
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S.
GARDENTECH® SEVIN®-5 READY-TO-USE 5% DUST

January 2015

RQ
Reportable Quantity is reached with 2,000 lb of product.

IMDG
UN number 3077
Class 9
Packaging group III
Marine pollutant YES
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CARBARYL MIXTURE)

IATA
UN number 3077
Class 9
Packaging group III
Environm. Hazardous Mark YES
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CARBARYL MIXTURE)

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

SECTION 15: REGULATORY INFORMATION

US Federal Regulations
TSCA list
Carbaryl 63-25-2
Crystalline quartz (respirable) 14808-60-7
Calcium carbonate 471-34-1
Magnesium carbonate 546-93-0

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)
None.

SARA Title III - Section 302 - Notification and Information
None.

SARA Title III - Section 313 - Toxic Chemical Release Reporting
Carbaryl 63-25-2 1.0%

US States Regulatory Reporting
CA Prop65
This product contains a chemical known to the State of California to cause cancer.
Carbaryl 63-25-2
Crystalline quartz (respirable) 14808-60-7

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
Carbaryl 63-25-2 Developmental toxin.
GARDENTECH® SEVIN®-5 READY-TO-USE 5% DUST

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Carbaryl  63-25-2  Male reproductive toxin.

US State Right-To-Know Ingredients
Carbaryl  63-25-2  CA, CT, IL, MN, NJ, RI
Crystalline quartz (respirable)  14808-60-7  MN
Magnesium carbonate  546-93-0  MN, RI

Canadian Regulations
Canadian Domestic Substance List
Crystalline quartz (respirable)  14808-60-7
Calcium carbonate  471-34-1
Magnesium carbonate  546-93-0

Environmental
CERCLA
Carbaryl  63-25-2  100 lbs

Clean Water Section 307 Priority Pollutants
None.

Safe Drinking Water Act Maximum Contaminant Levels
None.

International Regulations
European Inventory of Existing Commercial Substances (EINECS)
Crystalline quartz (respirable)  14808-60-7
Calcium carbonate  471-34-1
Magnesium carbonate  546-93-0

EPA/FIFRA 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 required on the pesticide label:

Signal word:  Caution!

Hazard statements:
Harmful if swallowed.
Harmful if absorbed through skin.
Harmful if inhaled.
Avoid contact with skin, eyes and clothing.
Avoid breathing dust.

SECTION 16: OTHER INFORMATION
GARDEN TECH® SEVIN®-5 READY-TO-USE 5% DUST

January 2015

NFPA 704 (National Fire Protection Association):
  Health - 1  Flammability - 1  Instability - 1  Others - none

  Health - 1  Flammability - 1  Physical Hazard - 1  PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason for Revision: Revised according to the current OSHA Hazard Communication Standard (29CFR1910.1200)

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions.