SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product name: GARDENTECH® SEVIN®-READY-TO-USE 5% DUST
Product codes: S7000, S7000D, S7007, S7007D, S7008, S7009, S7013, S7013D, S7017, S7017D, S7023, S7023D, S7025, S7115
SAP Numbers: 100508222, 100508225, 100508072, 100508073, 100064376, 100064494, 10063953, 100064493
EPA Registration No.: 432-1209-71004
Product Use: Insecticide

TechPac, LLC.
2030 Powers Ferry Road – Suite 370
Atlanta, GA 30339
For MEDICAL EMERGENCY: call 800-420-9347
For TRANSPORTATION or SPILL: call 800-420-9300
For Product Information: call 866-945-5033

SECTION 2. HAZARDS IDENTIFICATION

NOTE: Please refer to Section 11 for detailed toxicological information.

Emergency Overview: Caution! Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Avoid contact with skin, eyes and clothing. Avoid breathing dust.

Physical State: powder
Odor: slight
Appearance: light tan to brown
Exposure routes: Ingestion, Inhalation, Eye contact, Skin Absorption

Immediate Effects:

**Eye**: Causes eye irritation. Avoid contact with eyes.

**Skin**: Harmful if absorbed through skin. May produce symptoms similar to those from ingestion. Avoid contact with skin and clothing.

**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. Do not take internally.

**Inhalation**: Harmful if inhaled. May produce symptoms similar to those from ingestion. Avoid breathing dust.
**Chronic or Delayed Long-Term**

This product or its components may have target organ effects. This product or its components may have long term (chronic) health effects.

This product is not listed as a carcinogen by ACGIH, NTP, IARC or OSHA. However, it may contain crystalline silica (quartz), a substance which has been listed as a carcinogen by ACGIH, NTP and IARC. Crystalline silica is a naturally-occurring mineral component of many sands and clays. Although the carcinogenic potential of crystalline silica in humans is controversial, it must be considered if it is inhaled under excessive exposure conditions. The respirable portion of the silica that may be contained in this product, however, is small, such that inhalation exposure during anticipated conditions of use is minimal.

**Medical Conditions Aggravated by Exposure**

Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

**Potential Environmental Effect**

Extremely toxic to aquatic and estuarine invertebrates. Highly toxic to bees.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Component Name</th>
<th>CAS-No.</th>
<th>Average % by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbaryl</td>
<td>63-25-2</td>
<td>5.00</td>
</tr>
<tr>
<td>Quartz (Silica, Crystalline)</td>
<td>14808-60-7</td>
<td>9.20</td>
</tr>
<tr>
<td>Crystalline quartz (respirable)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calcium carbonate</td>
<td>112926-00-8</td>
<td>45.00</td>
</tr>
<tr>
<td>Synthetic amorphous silica</td>
<td>471-34-1</td>
<td>2.00</td>
</tr>
</tbody>
</table>

### SECTION 4. FIRST AID MEASURES

**General**

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

**Eye**

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.

**Skin**

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.

**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.

**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.
Notes to physician

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

Hazards
This product is a cholinesterase inhibitor carbamate.

Treatment
Monitor: respiratory, cardiac and central nervous system. Monitor: blood picture. Monitor: red blood cell and plasma cholinesterase. ECG - monitoring (Electrocardiogram). Oxygen or artificial respiration if needed. Keep respiratory tract clear. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. The following antidote is generally accepted: atropine. Before antidote is administered, either clear symptoms of poisoning have to be present or the cholinesterase activity is inhibited to below 30% of normal. In case of convulsions, a benzodiazepine (e.g. diazepam) should be given according to standard regimens. Contraindications: oximes (pralidoxime, obidoxime).

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. FIRE FIGHTING MEASURES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash point</td>
<td>not applicable</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>no data available</td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>no data available</td>
</tr>
<tr>
<td>Upper Flammability Limit</td>
<td>no data available</td>
</tr>
<tr>
<td>Explosiveness</td>
<td>no data available</td>
</tr>
</tbody>
</table>
### Fire and Explosion Hazards

Dangerous gases are evolved in the event of a fire.

### Suitable extinguishing media

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

### Fire Fighting Instructions

Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. 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.

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

### Dust Explosion Class

no data available

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

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

#### 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. Contaminated soil may have to be removed and disposed.

#### Additional advice

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

### SECTION 7. HANDLING AND STORAGE

#### Handling procedures

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.

#### Storing Procedures

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.

#### Work/Hygienic Procedures

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.
**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**General Protection**
Follow all label instructions. Train employees in safe use of the product.

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.

**Eye/Face Protection**
Safety glasses with side-shields

**Hand protection**
Chemical resistant nitrile rubber gloves

**Body Protection**
Wear long-sleeved shirt and long pants and shoes plus socks.

**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.

**Exposure Limits**

<table>
<thead>
<tr>
<th>Compound</th>
<th>CAS Number</th>
<th>Agency</th>
<th>Measurement</th>
<th>Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbaryl</td>
<td>63-25-2</td>
<td>ACGIH</td>
<td>TWA</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH NIC</td>
<td>TWA</td>
<td>0.5 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH</td>
<td>REL</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA Z1</td>
<td>PEL</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA Z1A</td>
<td>TWA</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>US CA OEL</td>
<td>TWA PEL</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TX ESL</td>
<td>ST ESL</td>
<td>50 ug/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TX ESL</td>
<td>AN ESL</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OES BCS*</td>
<td>TWA</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH</td>
<td>TWA</td>
<td>0.5 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TN OEL</td>
<td>TWA</td>
<td>5 mg/m³</td>
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<tr>
<td></td>
<td></td>
<td>ACGIH</td>
<td>TWA</td>
<td>0.025 mg/m³</td>
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<tr>
<td>Quartz (Silica, Crystalline)</td>
<td>14808-60-7</td>
<td>NIOSH</td>
<td>REL</td>
<td>0.05 mg/m³</td>
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<tr>
<td></td>
<td></td>
<td>OSHA Z1A</td>
<td>TWA</td>
<td>0.1 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Z3</td>
<td>TWA</td>
<td>2.4 millions of particles per cubic foot of air</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Z3</td>
<td>TWA</td>
<td>0.1 mg/m³</td>
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<td></td>
<td>Z3</td>
<td>TWA</td>
<td>0.3 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>US CA OEL</td>
<td>TWA PEL</td>
<td>0.1 mg/m³</td>
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<tr>
<td></td>
<td></td>
<td>US CA OEL</td>
<td>TWA PEL</td>
<td>0.3 mg/m³</td>
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<tr>
<td></td>
<td></td>
<td>TX ESL</td>
<td>ST ESL</td>
<td>1 ug/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TX ESL</td>
<td>ST ESL</td>
<td>1 ug/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TX ESL</td>
<td>AN ESL</td>
<td>0.1 ug/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TX ESL</td>
<td>AN ESL</td>
<td>0.1 ug/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TX ESL</td>
<td>ST ESL</td>
<td>10 ug/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TX ESL</td>
<td>AN ESL</td>
<td>1 ug/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TX ESL</td>
<td>TWA</td>
<td>0.1 mg/m³</td>
</tr>
<tr>
<td>Kaolin</td>
<td>1332-58-7</td>
<td>ACGIH</td>
<td>TWA</td>
<td>2 mg/m³</td>
</tr>
</tbody>
</table>
SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance**
light tan to brown

**Physical State**
powder

**Odor**
slight

**pH**
9.0 - 9.5 (10 %) at 25 °C
aqueous suspension

**Vapor Pressure**
no data available

**Vapor Density (Air = 1)**
no data available

**Bulk density**
47 - 57 lb/ft³

**Evaporation rate**
no data available

**Melting / Freezing Point**
no data available

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*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"*
Water solubility: insoluble

Minimum Ignition Energy: no data available

Decomposition temperature: no data available

Partition coefficient: n-octanol/water: no data available

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid: Elevated temperatures
Heat, flames and sparks.

Incompatibility: 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)

Hazardous reactions: No hazardous reactions when stored and handled according to prescribed instructions.

Chemical Stability: Stable under recommended storage conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity data have been bridged from a similar granular formulation containing a slightly higher percentage of the active ingredient, carbaryl. The non-acute information pertains to the technical-grade active ingredient.

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

Acute dermal toxicity: rabbit: LD50: > 2,000 mg/kg
Acute inhalation toxicity
rat: LC50: > 4.9 mg/l
Exposure time: 4 h
Determined in the form of dust.

rat: LC50: > 19.6 mg/l
Exposure time: 1 h
Determined in the form of dust.
Extrapolated from the 4 hr LC50.

Skin irritation
rabbit: No skin irritation

Eye irritation
rabbit: Mild eye irritation.

Sensitisation
guinea pig: Non-sensitizing.

Chronic toxicity
Carbaryl causes reversible cholinesterase inhibition. Changes in urinary bladder, thyroid, kidney and liver were observed in chronic studies in rats.

Assessment Carcinogenicity
Carbaryl has been shown to cause tumors in laboratory animals in lifetime feeding studies.

ACGIH
Carbaryl 63-25-2 Group A4
Quartz (Silica, Crystalline) 14808-60-7 Group A2

NTP
Crystalline quartz (respirable)

IARC
Carbaryl 63-25-2 Overall evaluation: 3
Quartz (Silica, Crystalline) 14808-60-7 Overall evaluation: 1

OSHA
None.

Reproductive toxicity
REPRODUCTION: Carbaryl was not a reproductive toxicant in a two-generation study in rats.

DEVELOPMENTAL: Carbaryl was not a primary developmental toxicant in rats and rabbits. Developmental effects were observed in both species but were considered secondary to maternal toxicity.

Assessment neurotoxicity
Carbaryl caused transient neurobehavioral effects (e.g., tremors) related to cholinergic toxicity without correlating neuropathological changes in acute and subchronic neurotoxicity studies in rats. Carbaryl did not cause developmental neurotoxic effects in offspring in a one-generation developmental neurotoxicity study in rats.

Mutagenicity
Carbaryl poses only a slight mutagenic risk based on the overall weight of evidence in a battery of in vitro and in vivo tests.

SECTION 12. ECOLOGICAL INFORMATION
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

General Disposal Guidance

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.

Container Disposal

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
Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S. (CARBARYL)
RQ Reportable Quantity is reached with 2,000 lb of product.

IMDG

UN-Number 3077
Class 9
Packaging group III
Marine pollutant YES
Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CARBARYL MIXTURE)

IATA

UN-Number 3077
Class 9
Packaging group III
Environm. Hazardous Mark YES
Description of the goods 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

### EPA Registration No.
432-1209-71004

### US Federal Regulations

#### TSCA list
- Carbaryl: 63-25-2
- Quartz (Silica, Crystalline): 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.
- Crystalline quartz (respirable)

- This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
  - Carbaryl: 63-25-2
    - Male reproductive toxin.

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

### Canadian Regulations

#### Canadian Domestic Substance List
- Quartz (Silica, Crystalline): 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)
- Carbaryl: 63-25-2
- Quartz (Silica, Crystalline): 14808-60-7
Calcium carbonate 471-34-1
Magnesium carbonate 546-93-0

SECTION 16. OTHER INFORMATION

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

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.