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

Product identifier
Trade name: GARDEN TECH® SEVIN® LAWN INSECT GRANULES
EPA Registration Number: 432-1212-71004

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.
GARDENTECH® SEVIN® LAWN INSECT GRANULES

Dispose of contents/container in accordance with local regulation.

Other hazards
No other hazards known.

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>2.00</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 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.

Flash point not applicable
Autoignition temperature no data available
Lower explosion limit not applicable
Upper explosion limit not applicable
Explosivity 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.

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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</thead>
<tbody>
<tr>
<td>Carbaryl (Inhalable fraction and vapor.)</td>
<td>63-25-2</td>
<td>0.5 mg/m3 (TWA)</td>
<td>02 2012</td>
<td>ACGIH</td>
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</table>
**GARDENTECH® SEVIN® LAWN INSECT GRANULES**

March 2015

<table>
<thead>
<tr>
<th>Carbaryl</th>
<th>63-25-2</th>
<th>5 mg/m³ (REL)</th>
<th>2010</th>
<th>NIOSH</th>
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<td>Carbaryl</td>
<td>63-25-2</td>
<td>5 mg/m³ (PEL)</td>
<td>02 2006</td>
<td>OSHA Z1</td>
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<tr>
<td>Carbaryl</td>
<td>63-25-2</td>
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<tr>
<td>Carbaryl</td>
<td>63-25-2</td>
<td>5 mg/m³ (TWA)</td>
<td>06 2008</td>
<td>TN OEL</td>
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<tr>
<td>Carbaryl</td>
<td>63-25-2</td>
<td>5 µg/m³ (ST ESL)</td>
<td>07 2011</td>
<td>TX ESL</td>
</tr>
<tr>
<td>Carbaryl</td>
<td>63-25-2</td>
<td>0.5 µg/m³ (AN ESL)</td>
<td>07 2011</td>
<td>TX ESL</td>
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<tr>
<td>Carbaryl</td>
<td>63-25-2</td>
<td>5 mg/m³ (TWA PEL)</td>
<td>08 2010</td>
<td>US CA OEL</td>
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<tr>
<td>Carbaryl</td>
<td>63-25-2</td>
<td>0.5 mg/m³ (TWA)</td>
<td>OES BCS*</td>
<td></td>
</tr>
</tbody>
</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.

**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.

---

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance**
dark brown

**Physical State**
granular

**Odor**
slight

**Odour Threshold**
no data available

**pH**
5 - 6 at 10 % (25 °C)
aqueous suspension
Vapor Pressure
Vapor Density (Air = 1)
Bulk density
Evaporation rate
Boiling Point
Melting / Freezing Point
Water solubility
Minimum Ignition Energy
Decomposition temperature
Partition coefficient: n-octanol/water
Viscosity
Flash point
Autoignition temperature
Lower explosion limit
Upper explosion limit
Explosivity

SECTION 10: STABILITY AND REACTIVITY

Reactivity
Thermal decomposition
Chemical stability
Possibility of hazardous reactions

no data available
no data available
25 - 35 lb/ft³
not applicable
not applicable
not applicable
no data available
no data available
no data available
not applicable
no data available
not applicable
not applicable
not applicable
not applicable
Stable under recommended storage conditions.
No hazardous reactions when stored and handled according to prescribed instructions.
GARDENTECH® SEVIN® LAWN INSECT GRANULES

March 2015

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. Do not take internally.

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

NTP
None.

IARC
Carbaryl 63-25-2 Overall evaluation: 3

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.

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.

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**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**

<table>
<thead>
<tr>
<th>49CFR</th>
<th>UN number</th>
<th>Class</th>
<th>Packaging group</th>
<th>Marine pollutant</th>
<th>Proper shipping name</th>
<th>RQ</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3077</td>
<td>9</td>
<td>III</td>
<td>Marine pollutant</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S. (CARBARYL)</td>
<td>Reportable Quantity is reached with 5,000 lb of product.</td>
</tr>
</tbody>
</table>

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

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

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.  
Carbaryl 63-25-2 Male reproductive toxin.

US State Right-To-Know Ingredients  
Carbaryl 63-25-2 CA, CT, IL, MN, NJ, RI

Canadian Regulations  
Canadian Domestic Substance List  
None.
GARDEN TECH® SEVIN® LAWN INSECT GRANULES

Environmental CERCLA
Carbaryl 63-25-2 100 lbs

Clean Water Section 307 Priority Pollutants
None.

Safe Drinking Water Act Maximum Contaminant Levels
None.

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

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

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.