

**Material Safety Data Sheet**

This product is used by  
Homeowners and Professionals.  
October 2011

**GARDENTECH® SEVIN® READY-TO-USE BUG KILLER**

**SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION**

**Product name** GARDENTECH® SEVIN® READY-TO-USE BUG KILLER  
**Product codes** S2001, S2001D, S2002, S2002D  
**SAP Numbers** 100047730, 100047720, 100505732, 100064374  
**EPA Registration No.** 432-1211-71004  
**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 800-424-9300  
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 by inhalation and if swallowed. Avoid breathing spray mist.  
Avoid contact with skin, eyes and clothing.

**Physical State** liquid opaque

**Odor** none

**Appearance** white

**Exposure routes** Ingestion, Inhalation, Eye contact, Skin contact

**Immediate Effects**

**Eye** May cause eye irritation. Avoid contact with eyes.

**Skin** May cause slight irritation. Avoid contact with skin and clothing.

**Ingestion** Harmful if swallowed. Do not take internally.

**Inhalation** Harmful if inhaled. Avoid breathing spray mist.

**Medical Conditions Aggravated by Exposure** Any disease, medication or prior exposure which reduces normal cholinesterase activity may increase susceptibility to the toxic effects of the active ingredient.

**Potential Environmental Effect** Highly toxic to bees. Extremely toxic to aquatic and estuarine invertebrates.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Carbaryl	63-25-2	0.126

**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** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
- Skin** Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. 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.
- 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**

This product causes reversible cholinesterase inhibition without long term effects.  
Symptoms of Overexposure  
Nausea  
Vomiting  
Diarrhoea  
Abdominal pain  
Salivation  
Blurred vision  
sweating  
Respiratory disorder  
Convulsions

**Treatment**

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. Before antidote is administered, either clear symptoms of poisoning have to be present or the cholinesterase activity is inhibited to below 30% of normal. The following antidote is generally accepted: atropine. In case of convulsions, a benzodiazepine (e.g. diazepam) should be given according to standard regimens. Contraindications: oximes (pralidoxime, obidoxime).

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**SECTION 5. FIRE FIGHTING MEASURES**

<b>Flash point</b>	The product is not flammable.
<b>Autoignition temperature</b>	no data available
<b>Lower Flammability Limit</b>	no data available
<b>Upper Flammability Limit</b>	no data available
<b>Suitable extinguishing media</b>	Carbon dioxide (CO2), Alcohol-resistant foam, Water spray
<b>Fire Fighting Instructions</b>	Keep out of smoke. Fight fire from upwind position. Do not allow run-off from fire fighting to enter drains or water courses.  Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions</b>	Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.
<b>Methods for cleaning up</b>	Keep in suitable, closed containers for disposal. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated floors and objects thoroughly, observing environmental regulations.
<b>Additional advice</b>	Use personal protective equipment.

**SECTION 7. HANDLING AND STORAGE**

<b>Handling procedures</b>	Use only in area provided with appropriate exhaust ventilation. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.
<b>Storing Procedures</b>	Store in original container and out of the reach of children, preferably in a locked storage area.  Protect from freezing.  Keep away from food, drink and animal feedingstuffs.

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

**General Protection** There are no known hazards associated with this product when used according to the label directions. The following guidelines should be followed.

Avoid inhalation of vapour or mist. Avoid contact with skin and eyes.

Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

Do not allow children or pets to enter the treated area until it has dried.

**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** No personal respiratory protective equipment normally required.

**Exposure Limits**

Carbaryl	63-25-2	ACGIH	TWA	5 mg/m3
		ACGIH NIC	TWA	0.5 mg/m3
		NIOSH	REL	5 mg/m3
		OSHA Z1	PEL	5 mg/m3
		OSHA Z1A	TWA	5 mg/m3
		US CA OEL	TWA PEL	5 mg/m3
		TX ESL	ST ESL	50 ug/m3
		TX ESL	AN ESL	5 ug/m3
		OES BCS*	TWA	5 mg/m3
		ACGIH	TWA	0.5 mg/m3
		TN OEL	TWA	5 mg/m3

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

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** white

**Physical State** liquid opaque

**Odor** none

**pH** 3 - 4 (100 %)

**Vapor Pressure** no data available

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<b>Vapor Density (Air = 1)</b>	no data available
<b>Density</b>	ca. 1.00 g/cm <sup>3</sup> at 20 °C
<b>Boiling Point</b>	no data available
<b>Melting / Freezing Point</b>	no data available
<b>Water solubility</b>	soluble
<b>Decomposition temperature</b>	140 °C
<b>Partition coefficient: n-octanol/water</b>	no data available
<b>Viscosity</b>	50 - 200 mPa.s

**SECTION 10. STABILITY AND REACTIVITY**

<b>Incompatibility</b>	Bases Strong acids
<b>Hazardous Decomposition Products</b>	nitrogen oxides (NOx) Sulphur oxides Carbon oxides Methyl isocyanate
<b>Chemical Stability</b>	Stable under recommended storage conditions.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute toxicity studies have not been performed on this product as formulated. The acute toxicity data provided has been bridged from a SEVIN dust formulation containing a higher percentage of the active ingredient, carbaryl. The long-term information pertains to the technical-grade active ingredient.

<b>Acute oral toxicity</b>	rat: LD50: > 1,500 mg/kg
<b>Acute dermal toxicity</b>	rabbit: LD50: > 2,000 mg/kg
<b>Eye irritation</b>	rabbit: Mild eye irritation.
<b>Chronic toxicity</b>	Reversible cholinesterase inhibition occurred in chronic toxicity studies in rats and dogs. The principal organs affected in rats from long-term exposure to high-doses of carbaryl included the urinary bladder, thyroid, kidneys and liver.

**Assessment Carcinogenicity**

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

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**ACGIH**

Carbaryl

63-25-2

Group A4

**NTP**

None.

**IARC**

Carbaryl

63-25-2

Overall evaluation: 3

**OSHA**

None.

**Reproductive toxicity**

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

DEVELOPMENTAL TOXICITY: 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**

A battery of in vitro and in vivo mutagenicity studies have been conducted on carbaryl. Collectively, these studies indicate that carbaryl poses only a slight mutagenic risk.

**SECTION 12. ECOLOGICAL INFORMATION**

**Toxicity to fish**

Oncorhynchus mykiss (rainbow trout)  
LC50: 1,950 µg/l  
Exposure time: 96 h  
The value mentioned relates to the active ingredient.

Lepomis macrochirus (Bluegill sunfish)  
LC50: 6,769 µg/l  
Exposure time: 96 h  
The value mentioned relates to the active ingredient.

**Toxicity to other organisms**

Anas platyrhynchos (Mallard duck)  
LC50: > 5,000 mg/kg  
Exposure time: 8 d  
The value mentioned relates to the active ingredient.

Colinus virginianus (Bobwhite quail)  
LC50: > 5,000 mg/kg  
Exposure time: 8 d  
The value mentioned relates to the active ingredient.

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**Environmental precautions** Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Do not allow to get into surface water, drains and ground water. 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 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** Do not re-use empty containers. Place empty container in trash.

**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**

According to national and international transport regulations this material is not classified as dangerous goods / hazardous material.

**SECTION 15. REGULATORY INFORMATION**

**EPA Registration No.** 432-1211-71004

**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 does not contain any substances known to the State of California to cause cancer.

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

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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

**Canadian Regulations**

**Canadian Domestic Substance List**

None.

**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

**SECTION 16. OTHER INFORMATION**

NFPA 704 (National Fire Protection Association):

Health - 1 Flammability - 0 Instability - 1 Others - none

HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 1 Flammability - 0 Physical Hazard - 0 PPE -

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

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