Material Safety Data Sheet

GARDENTECH® SEVIN® READY-TO-USE BUG KILLER

This product is used by Homeowners and Professionals.
October 2011

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

Hazardous Component NameCAS-No.Average % by WeightCarbaryl63-25-20.126

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

Flash point The product is not flammable.

Autoignition temperature no data available

Lower Flammability

Limit

no data available

Upper Flammability Limit no data available

Suitable extinguishing

media

Carbon dioxide (CO2), Alcohol-resistant foam, Water spray

Fire Fighting

Instructions

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

Personal precautions Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled

product or contaminated surfaces.

Methods for cleaning up 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.

Additional advice Use personal protective equipment.

SECTION 7. HANDLING AND STORAGE

Handling proceduresUse only in area provided with appropriate exhaust ventilation. Maintain

exposure levels below the exposure limit through the use of general and local

exhaust ventilation.

Storing Procedures 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 0.5 mg/m3 **ACGIH NIC** TWA 5 mg/m3 NIOSH REL OSHA Z1 PEL 5 mg/m3 5 mg/m3 OSHA Z1A TWA 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** 0.5 mg/m3 **TWA** TN OEL **TWA** 5 mg/m3

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance white

Physical State liquid opaque

Odor none

pH 3 - 4 (100 %)

Vapor Pressure no data available

^{*}OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

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Vapor Density (Air = 1) no data available

Density ca. 1.00 g/cm³ at 20 °C

Boiling Point no data available

Melting / Freezing Point no data available

Water solubility soluble

Decomposition temperature

140 °C

Partition coefficient: n-

octanol/water

no data available

Viscosity 50 - 200 mPa.s

SECTION 10. STABILITY AND REACTIVITY

Incompatibility Bases

Strong acids

Hazardous nitrogen oxides (NOx)

Decomposition Products Sulphur oxides

Carbon oxides
Methyl isocyanate

Chemical Stability 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.

Acute oral toxicity rat: LD50: > 1,500 mg/kg

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

Eye irritation rabbit: Mild eye irritation.

Chronic toxicity 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.

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 Carbaryl caused transient neurobehavioral effects (e.g., tremors) related to **neurotoxicity** cholinergic toxicity without correlating neuropathological changes in acute and

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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