

264-429

9/8/2009

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U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (7505P)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

264-429

Date of Issuance:

SEP 8 2009

Terms of Issuance:

Unconditional

Name of Pesticide Product:

Sevin brand Granular  
Carbaryl Insecticide

NOTICE OF PESTICIDE:

     Registration  
XX Reregistration  
(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Bayer Environmental Science  
P.O. Box 12014, 2 T.W. Alexander Drive  
Research Triangle Park, NC 27709

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

Based on your response to the Reregistration Eligibility Document, EPA has reregistered the product listed above. This action is taken under the authority of section 4(g)(2)(c) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain the registration of your product. Within 45 days from the date of this notice, two copies of a final printed label must be submitted with the following change:

Revise "For Commercial Use Only" to read "Intended for Commercial Use."

Your Confidential Statements of Formula (CSF) dated June 27, 2005 (basic formulation), June 27, 2005 (alternate formulation), June 28, 2005 (alternate formulation), June 29, 2005, (alternate formulation), and June 30, 2005 (alternate formulation) are acceptable. These CSFs supercede all previous CSFs. You may distribute products bearing the old label for 12 months from receipt of this letter or your next printing of the label, whichever comes first.

A copy of the stamped label is enclosed for your records.

Signature of Approving Official:

Meredith Laws, Branch Chief  
Registration Division, Insecticide-Rodenticide Branch

Date:

SEP 8 2009

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# SEVIN® brand Granular Carbaryl Insecticide

For Commercial Use Only

**ACTIVE INGREDIENT:**

Carbaryl (1-naphthyl N-methylcarbamate)..... 7.0% by Wt.

**OTHER INGREDIENTS:**..... 93.0% by Wt.

Total 100.0%

E.P.A. Reg. No. 264 - 429

E.P.A. Est. No. 264-MO-02

## KEEP OUT OF REACH OF CHILDREN CAUTION

For MEDICAL and TRANSPORTATION Emergencies ONLY CALL 24 Hours a Day 1-800-334-7577  
For PRODUCT USE Information Call 1-800-334-9745

### FIRST AID

**Carbaryl is a N-methyl carbamate Insecticide**

<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</b>	
<p><b>NOTE TO PHYSICIAN:</b> Carbaryl is an N-methyl carbamate insecticide that inhibits cholinesterase. Atropine is antidotal. Do not use 2-PAM (pyridine-2-aldoxime methiodide), opiates or cholinesterase inhibiting drugs. Probable mucosal damage may contraindicate the use of gastric lavage. To aid in confirmation of a diagnosis, urine samples should be obtained within 24 hours of exposure and immediately frozen. Analysis will be arranged by Bayer Environmental Science. Consultation on therapy can be obtained at all hours by calling the Bayer Environmental Science emergency number 1-800-334-7577.</p>	

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS & DOMESTIC ANIMALS

##### CAUTION

Harmful if swallowed or absorbed through the skin. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

**OVEREXPOSURE MAY CAUSE:** Salivation, watery eyes, pinpoint eye pupils, blurred vision, muscle tremors, difficult breathing, excessive sweating, abdominal cramps, nausea, vomiting, diarrhea, weakness, headache. IN SEVERE CASES CONVULSION, UNCONSCIOUSNESS AND RESPIRATORY FAILURE MAY OCCUR. SIGNS AND SYMPTOMS OCCUR RAPIDLY FOLLOWING OVEREXPOSURE TO THIS PRODUCT.

##### PERSONAL PROTECTIVE EQUIPMENT (PPE):

Some materials that are chemical-resistant to this product are made out of any waterproof material. If you want more options, follow the instructions of N category A on an EPA chemical resistance category selection chart.

Loaders, applicators, and other handlers must wear:

- Long-sleeved shirt and long pants,
- Chemical-resistant gloves, and
- Shoes plus socks.

**Aerial application is prohibited.**

Follow manufacturer's instructions for cleaning and maintaining Personal Protective Equipment (PPE). If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

ACCEPTED  
With COMMENTS  
In EPA Letter Dated:

SEP 8 2009  
Under the Federal Insecticide, Fungicide<sup>1</sup>-  
and Rodenticide Act, As amended, for the  
pesticide Registered under EPA Reg. No:

264-429

### User Safety Recommendations

#### Users should:

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

Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### ENGINEERING CONTROLS

When applicators use enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(5), the handler PPE requirements may be reduced or modified as specified in the WPS.

#### ENVIRONMENTAL HAZARDS

This product is extremely toxic to aquatic invertebrates. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from area treated. Drift and runoff may kill aquatic invertebrates in water adjacent to treated areas. Do not contaminate water by cleaning equipment or disposal of wastes. Do not contaminate water when disposing of equipment washwaters.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with the labeling.

Read the entire label before using this product.

Strictly observe label directions, restrictions, and cautions. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the Restricted-entry interval (REI). The REI for carbaryl is 12 hours unless otherwise specified in the directions for use associated with each crop.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls over short-sleeve shirt and short-pants,
- Chemical-resistant footwear plus socks,
- Chemical-resistant gloves made of any waterproof material, and
- Chemical-resistant headgear if overhead exposure.

When the Restricted-Entry Interval for a crop is 7 days or longer, you must notify workers of the application by warning them orally and by posting warning signs at entrances to treated area.

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter or allow others to enter the treated area until dusts have settled. In addition, if directions for use require watering-in, do not enter or allow others to enter the treated area (except those involved in the watering-in) until the watering-in is completed and the area has dried.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

### STORAGE

Store unused SEVIN® brand Granular Carbaryl Insecticide in original container only, in cool, dry area out of reach of children and animals. Do not store in areas where temperatures frequently exceed 100°F. If container is damaged, before cleaning up, put on Personal Protective Equipment.

### PESTICIDE DISPOSAL

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

### CONTAINER DISPOSAL

Non-refillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Once bag is empty, offer for recycling, if available, or dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If bag is burned, stay out of smoke.

## RESTRICTIONS

SEVIN® Brand Granular Carbaryl Insecticide is granular formulation of carbaryl which may be applied by ground equipment. Do not apply by hand, spoon, or belly grinder. For outdoor use only.

## PLANT RESPONSE PRECAUTIONS

Application to wet foliage or during periods of high humidity may cause injury to tender foliage.

## PREHARVEST AND GRAZING RESTRICTIONS AND LIMITATIONS

For all listed crops and uses, do not apply at greater rates or at more frequent intervals than stated on the label. If forage is grazed or used as feed for dairy and meat animals, follow all use restrictions in order to avoid illegal residues in crops, meat or milk.

Do not use reclaimed irrigation water from crops treated with carbaryl on crops for which carbaryl tolerances are not established.

## APPLICATION STATEMENT

Calibrate and adjust application equipment to insure proper rate and accurate placement.

**SPECIFIC USE DIRECTIONS**

**TURFGRASS**

To kill turfgrass pests, apply granules uniformly to dry Turfgrass. Follow specific directions for proper application and irrigation. Repeat applications as necessary up to a total of 4 times per year but not more often than once every 7 days.

This product will kill only target pests present at the time of application. Pests must be directly contacted by product to be effective.

SITE	PEST	POUND OF THIS PRODUCT PER 1000 SQ. FT.	SPECIFIC DIRECTIONS
Turfgrass such as: golf turf, sports fields, sod farms, domestic and commercial lawns, cemeteries, parks, campsites, recreational areas.	Ants (Except fire ants, harvester, pharaoh and carpenter ants), Armyworm, Centipedes, Chiggers, Cinch bugs, Cutworms, Earwigs, Essex skipper, European chafer, Fly armyworm, Fiery skipper, Grasshoppers, Green June beetle larvae, Leafhoppers, Lucerne moth, Millipedes, Mosquitoes (young), Scarab beetle Adults (such as May beetle, June beetle, Japanese beetle, green June beetle), Sod webworm (lawn moths), Sowbugs, Spittlebugs, Yellowstriped armyworm,	2.2 to 3.0	Irrigate thoroughly after application to remove chemical from granules and move it down into the thatch.  To effectively kill subsurface pests, apply when insects are actively feeding near the soil surface, usually during late March through May, or July through early September, or timing that is recommended by local Agricultural Extension Service Agents.
	Billbug larvae, Black Turfgrass Ataenius beetle larvae, European crane fly larvae, Fleas, Hyperodes weevil (bluegrass weevil) larvae, White grubs (such as Japanese beetle larvae, chafer beetle larvae, Phyllophaga spp., and annual White grubs), Scorpions	3.0	
	Ticks	0.35	

**RESTRICTIONS AND LIMITATIONS: TURFGRASS**

- Product must be watered in immediately following application.

**TICKS THAT MAY VECTOR LYME DISEASE**

To kill juvenile and adult Ixodes spp. ticks (Deer Ticks and Black Legged Tick) and ticks (Lone Star Tick) which may vector Lyme Disease: Apply granules at the rate of 0.35 pounds of product per 1000 sq. ft. with a spreader to ensure uniform coverage. Target applications to kill juvenile ticks (larvae and nymphs) in late spring or early summer (May/June). Adult ticks can be killed with late summer and fall applications (August/September). Make applications to lawns, shrub beds, ornamental plantings, wooded areas and around outside perimeters of buildings. Treat entire lawn and perimeter wooded areas and property boundaries where exposure to ticks may occur. Irrigate treated areas thoroughly after application to remove chemical from the granules and move down into thatch. Ticks may be reintroduced from surrounding areas or host animals. Reapply as necessary up to a total of 4 times per year, but not more often than once every 7 days. Will kill only target pests that are present at the time of application. Ticks must be directly contacted for product to be effective.

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## NUISANCE PESTS

For use in and around flowerbeds and ornamental plantings and around outside perimeter of buildings.

This product will kill only target pests present at the time of application. Pests must be directly contacted for product to be effective

PEST	POUNDS OF PRODUCT PER 1000 SQ.FT.	SPECIFIC DIRECTIONS
Ants (except fire ants, harvester, pharaoh and carpenter ants) Armyworms Centipedes Crickets Cutworms Earwigs Firebrats Fleas Millipedes Scorpions Silverfish Spiders	3.0	Application to wet foliage during periods of high humidity may cause injury to tender foliage.  Apply granules in a 6 foot band around the building, to shrub and flowerbeds, foundations, ornamental plantings, and lawn or soil areas immediately adjacent to the building. Treated area should be lightly watered after application to remove the chemical from the granules.  Repeat as needed up to 4 times per year but do not apply more often than once every 7 days
Ticks	0.35	

## NUISANCE PESTS IN VEGETABLES, SMALL FRUITS AND BERRIES

This product will kill only target pests that are present at the time of application. Pest must be directly contacted for product to be effective. Contact as many pests as possible.

To kill Ants (except fire ants, harvester, pharaoh and carpenter ants), Centipedes, Crickets, Cutworms, Earwigs, Grasshoppers, Millipedes, Sowbugs (Pillbugs) and Springtails apply evenly over the soil surface at the rates given below. Water lightly after application to release the chemical from the granules. Applications may be made at any time before, during or after the growing season. Do not use on crops other than those listed below. Observe the following preharvest intervals for applications during the growing season:

CROP	POUNDS OF THIS PRODUCT PER 1000 SQ.FT.	PREHARVEST INTERVAL	SPECIFIC DIRECTIONS
Asparagus (before harvest of spears)	0.35	1	Repeat applications as necessary up to a total of 3 times prior to harvest but not more often than once every 3 days.
Asparagus (after harvest of spears)	0.7	N/A	Repeat applications as necessary but not more often than once every 7 days.  Do not exceed a total of 5 applications per year, pre- and post-harvest combined, or a total of 1.7 lbs of product/1000 sq ft per year
<b>All members of the Head and Stem Brassica Vegetable Subgroup 5A including:</b> Broccoli, Chinese broccoli ( <i>gai lan</i> ), Brussels sprouts, Cabbage, Chinese cabbage ( <i>napa</i> ), Chinese mustard cabbage ( <i>gai choy</i> ), Cauliflower, Cavalo broccolo, and Kohlrabi	0.7	3 days	Repeat applications as necessary up to a total of 3 times but not more often than once every 7 days.  Application is permitted only within 30 days from the date of crop emergence or the date of transplanting.
<b>All members of the Leafy Brassica Green Vegetable Subgroup 5B including:</b> Broccoli raab ( <i>rapini</i> ), Chinese cabbage ( <i>bok choy</i> ), Collards, Kale, Mizuna, Mustard greens, Mustard spinach, Rape greens, Turnip greens	0.7	14 days	Repeat applications as necessary up to a total of 3 times but not more often than once every 7 days.  Application is permitted only within 30 days from the date of crop emergence or the date of transplanting.

**NUISANCE PESTS IN VEGETABLES, SMALL FRUITS AND BERRIES**

(Continued)

Sweet Corn	0.7	<p><u>2 days</u> (Ears)</p> <p><u>14 days</u> (Forage)</p> <p><u>48 days</u> (Fodder)</p>	<p>Repeat applications as necessary up to a total of 8 times per year but not more often than once every 3 days.</p> <p>Hand harvesting is prohibited.</p> <p>Restricted-entry interval (REI) = 24 hours. Exception: the REI is 21 days for workers detasseling corn.</p>
<b>All members of the Cucurbit Vegetable Group 9 including:</b> Chayote (fruit), Chinese waxgourd, Citron melon, Cucumber, Gherkin, Gourd (edible), <i>Momordica</i> spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber), Muskmelon (hybrids and/or cultivars of <i>Cucumis melo</i> ), Pumpkin, Squash (includes summer squash types such as: crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini, and winter squash types such as acorn squash, butternut squash, calabaza, cushaw, Hubbard squash, spaghetti squash), Watermelon	0.35	3	Repeat applications as necessary up to a total of 6 times per year but not more often than once every 7 days.
<b>All members of the Fruiting Vegetable Group 8 including:</b> Eggplant, Groundcherry, Pepinos, Pepper (includes: bell pepper, chili pepper, cooking pepper, pimento, sweet pepper), Tomatillo, Tomato	0.7	3 days	Repeat applications as necessary up to a total of 4 times per year but not more often than once every 7 days.
<b>All members of the Dried Shelled Legume Vegetable Subgroup 6C (except soybean) including:</b> <i>Lupinus sp.</i> including grain lupin, sweet lupin, white lupin, and white sweet lupin; <i>Phaseolus sp.</i> including field bean, kidney bean, dry lima bean, navy bean, pinto bean, tepary bean; <i>Vigna sp.</i> including adzuki bean, blackeyed pea, catjang, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea, Urd bean; <i>Pisum sp.</i> including dwarf pea, English pea, field pea, garden pea, green pea; Other Beans and Peas including broad bean (dry), chickpea (dry), guar (dry), lablab bean (dry), lentil (dry), pigeon pea (dry).	0.5	<p>14 (forage)</p> <p>21 (dried beans, dried peas, or hay)</p>	<p>Repeat applications as necessary up to a total of 4 times per year but not more often than once every 7 days.</p> <p>Use on succulent peas or beans is prohibited.</p>
<b>All members of the Root and Tuber Vegetable Group 1:</b> Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem), Beet (garden), Beet (sugar), Burdock (edible), Canna (edible, Queensland arrowroot), Carrot, Cassava (bitter & sweet), Celeriac (celery root), Chayote (root), Chervil (turnip-rooted), Chicory, Chufa, Dasheen (taro), Ginger, Ginseng, Horseradish, Leren, Parsley (turnip-rooted), Parsnip, Potato, Radish, Oriental radish (daikon), Rutabaga, Salsify (black), Salsify (oyster plant), Salsify (Spanish), Skirret, Sweet potator, Tanier (cocoyam), Turmeric, Turnip, Yam bean (jicama, manioc pea), Yam (true).	0.7	7 days	Repeat applications as necessary up to a total of 3 times per year but not more often than once every 7 days.
Strawberries	0.7	7 days	<p>Repeat applications as necessary up to a total of 5 times per year but not more often than once every 7 days.</p> <p>Carbaryl may injure Early Dawn and Sunrise varieties of strawberries.</p>
Garden Beets (tops), Turnips (tops)	0.7	7 days	Repeat applications as necessary up to a total of 3 times per year but not more often than once every 7 days (Roots, Forage).

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## IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of BAYER Environmental Science. All such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of BAYER CROPSCIENCE is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

**LIMITATIONS OF LIABILITY:** TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT BAYER ENVIRONMENTAL SCIENCE ELECTION, THE REPLACEMENT OF PRODUCT

### NET CONTENT:

SEVIN is a registered trademark of Bayer.



Bayer CropScience

Bayer CropScience LP  
P.O. Box 12014, 2 T.W. Alexander Drive  
Research Triangle Park, North Carolina 27709

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