

PM 19 264-422 ps 186

SEVIN® brand 4-OIL ULV

CARBARYL INSECTICIDE

For Agricultural or Commercial Use Only

ACTIVE INGREDIENTS: Carbaryl (1-naphthyl N-methylcarbamate)..... 48.0% by wt.

INERT INGREDIENTS:..... 52.0% by wt.

This product contains petroleum distillates. (Contains 4 pounds carbaryl per gallon)

E.P.A. Reg. No. 264-422

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

KEEP OUT OF REACH OF CHILDREN
CAUTION

ACCEPTED
APR 30 1997

For MEDICAL and TRANSPORTATION Emergencies ONLY Call 24 Hours A
For PRODUCT USE Information Call 1-800-334-9745

Day 1-800-334-7577
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 264-422

STATEMENT OF PRACTICAL TREATMENT

Carbaryl is an N-Methyl Carbamate Insecticide.

IF SWALLOWED: Call a physician or Poison Control Center immediately. Give 1 to 2 glasses of water or milk to drink. Do not induce vomiting, may cause aspiration hazard. **PRECAUTION:** To prevent aspiration of petroleum distillates, lay patient on side with head lower than waist.

IF IN EYES: Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Get medical attention if irritation persists.

IF ON SKIN: Wash thoroughly with soap and water.

IF INHALED: Remove to fresh air. If not breathing, give artificial respiration. Administer oxygen if necessary. **GET MEDICAL ATTENTION.**

GENERAL

Contact a physician immediately in all cases of suspected poisoning. Transport to a physician or hospital immediately and **SHOW A COPY OF THIS LABEL TO THE PHYSICIAN.** If poisoning is suspected in animals, contact a veterinarian.

ANTIDOTE STATEMENT

ATROPINE SULFATE IS HIGHLY EFFECTIVE AS AN ANTIDOTE. Narcotics and other sedatives should not be used. Further, drugs like 2-PAM (pyridine-2-aldoxime methiodide) are **NOT** recommended. See NOTE TO PHYSICIAN.

NOTE TO PHYSICIAN

Treat symptomatically. *Overexposure to materials other than this product may have occurred.*

Carbaryl is an N-methyl carbamate insecticide, which is a cholinesterase inhibitor. Overexposure to this substance may cause toxic signs and symptoms due to stimulation of the cholinergic nervous system. These effects of overexposure are spontaneously and rapidly reversible. Gastric lavage may be used if this product has been swallowed. Carbaryl poisoning may occur rapidly after ingestion and prompt removal of stomach contents is indicated.

Specific treatment consists of parenteral atropine sulfate. Caution should be maintained to prevent overatropinization. Improve tissue oxygenation as much as possible before administering atropine to minimize the risk of ventricular fibrillation. Mild cases may be given 1 to 2 mg intramuscularly every 10 minutes until full atropinization has been achieved and repeated thereafter whenever symptoms reappear. Severe cases should be given 2 to 4 mg intravenously every 10 minutes until fully atropinized, then intramuscularly every 30 to 60 minutes as needed to maintain the effect for at least 12 hours. Dosages for children should be appropriately reduced. Complete recovery from overexposure is to be expected within 24 hours.

Narcotics and other sedatives should not be used. Further, drugs like 2-PAM (pyridine-2-aldoxime methiodide) are **NOT** recommended.

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 Rhône-Poulenc Ag Company

Consultation on therapy can be obtained at all hours by calling the Rhône-Poulenc emergency number 1-800-334-7577

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS (& DOMESTIC ANIMALS)

CAUTION

HARMFUL IF SWALLOWED, ABSORBED THROUGH THE SKIN, INHALED, OR IF IN EYES.
Avoid breathing vapors or spray mist. Avoid contact with eyes, skin or clothing. Keep out of reach of children and domestic animals.

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

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category E on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear long-sleeved shirt and long pants, chemical resistant gloves such as barrier laminate, nitrile rubber, neoprene rubber, or viton, shoes plus socks and chemical-resistant headgear for overhead exposure.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining Personal Protective Equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

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

ENVIRONMENTAL HAZARDS

This product is extremely toxic to aquatic and estuarine 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 the area-treated. Do not contaminate water by cleaning equipment or disposal of wastes.

BEE CAUTION: MAY KILL HONEYBEES IN SUBSTANTIAL NUMBERS

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Contact your Cooperative Agricultural Extension Service or your local Rhône-Poulenc Ag Company representative for further information.

DIRECTIONS FOR USE

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

Read the entire label before using this product.

Strictly observe label directions 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) of 12 hours.

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, chemical resistant gloves such as barrier laminate, nitrile rubber, neoprene rubber, or viton, shoes plus socks and chemical-resistant headgear for overhead exposure.

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.

The area being treated must be vacated by unprotected persons.

Keep unprotected persons out of treated areas until sprays have dried.

STORAGE AND DISPOSAL

STORAGE

Store unused SEVIN® brand 4-OIL ULV 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, put on Personal Protective Equipment.

PESTICIDE DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL

Decontaminate empty bulk tanks by rinsing with kerosene or #2 fuel oil. Rinses may be drained into a mixing or spray tank. Bulk tanks should be washed with a detergent and hot water. For drums, triple rinse (or equivalent). Then offer drums for recycling or reconditioning or puncture and dispose of drums in a sanitary landfill or by other procedures approved by state and local authorities.

Consult Federal, State or local disposal authorities for approved alternative procedures.

GENERAL CAUTIONS AND RESTRICTIONS

SEVIN® brand 4-OIL ULV Carbaryl Insecticide is a dispersion of finely ground technical carbaryl in a non-aromatic, low volatile oil. It is designed for air application as a low volume or ultra low volume spray. It also may be applied by certain types of ground equipment but may be diluted only with diesel fuel, kerosene or #2 fuel oil.

PLANT RESPONSE PRECAUTIONS

To avoid possible injury to tender foliage, do not apply to wet foliage or when rain or high humidity is expected during the next 2 days.

PREHARVEST AND GRAZING RESTRICTIONS AND LIMITATIONS

Tolerances established under the Federal Food, Drug and Cosmetic Act permit the sale of labeled crops bearing probable carbaryl residues when this product is used in accordance with the label directions. If used as directed, treated forage may be grazed or used as feed for dairy and meat animals without causing illegal residues in meat or milk. Do not apply at greater rates or at more frequent intervals than stated on the label. To do so may result in illegal residues in crops, meat, and milk.

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

Do not plant rotational food and feed crops not listed on this or other carbaryl labels in carbaryl treated soil.

APPLICATION STATEMENTS

Calibrate and adjust application equipment to insure proper rate and accurate placement. Refer to the Storage and Disposal section for disposal instructions.

MIXING, LOADING, AND HANDLING INSTRUCTIONS

SEVIN® brand 4-Oil ULV Carbaryl Insecticide thickens during storage. Roll or agitate drums or recirculate product in bulk tanks before use to reduce viscosity and restore homogeneity. SEVIN® brand 4-Oil ULV Carbaryl Insecticide may be held prior to use and transferred in any materials of construction suitable for use with fuel oil, kerosene, or diesel oil. Protect from water. Before and after use, flush nurse tanks, pumps, lines, hoses and entire spray systems with diesel fuel, kerosene, or #2 fuel oil until clean. Water, scale, rust, and other residue must be removed from pumps, mixing and spray systems before use. See COMPATIBILITY STATEMENT below. For best mixing when preparing diluted SEVIN® brand 4-OIL ULV Carbaryl Insecticide, add aliphatic oil diluent to mix tank before adding proper volume of SEVIN® Brand 4-Oil ULV Carbaryl Insecticide. Provide complete recirculation of diluted suspensions once every 24 hours to maintain uniformity.

COMPATIBILITY INFORMATION

SEVIN® BRAND 4-OIL ULV CARBARYL INSECTICIDE IS NOT COMPATIBLE WITH AND SHOULD NOT BE MIXED WITH WATER, ALCOHOL OR AROMATIC SOLVENTS, but can be diluted with aliphatic oils (diesel fuel, kerosene or #2 fuel oil). Compatibility with other pesticides has not been thoroughly tested. DO NOT USE IN TANK MIX COMBINATIONS UNLESS YOUR EXPERIENCE INDICATES THAT THE MIXTURE IS EFFECTIVE AND WILL NOT RESULT IN PLANT INJURY OR MECHANICAL DIFFICULTY.

APPLICATION PROCEDURES AND PRECAUTIONS

DO NOT APPLY SEVIN® BRAND 4-OIL ULV CARBARYL INSECTICIDE THROUGH ANY TYPE OF IRRIGATION SYSTEM.

Use sufficient gallonage to obtain thorough and uniform coverage. Calibrate equipment to deliver the desired spray volume. Flat fan nozzles may be used to apply both undiluted and diluted SEVIN® brand 4-OIL ULV Carbaryl Insecticide. Rotary atomizing and hollow cone nozzles are not recommended for applying undiluted SEVIN® brand 4-OIL ULV Carbaryl Insecticide, but can be used if 1 to 1 dilution is made. Use of a high-volume 50-mesh in-line strainer is suggested. Use of screens behind nozzles is not recommended. Apply only when weather conditions are favorable. Wind and rising air currents may cause undesirable spray drift and reduce insect control.

AERIAL APPLICATION

Apply by air undiluted, or diluted with kerosene, diesel fuel or #2 fuel oil. At temperature below 50 °F (10 °C) dilution of 4 volumes of SEVIN® brand 4-OIL ULV Carbaryl Insecticide with 1 volume of diluent oil is recommended to assure uniform flow and spray distribution. Dilutions greater than 1 to 1 by volume are not recommended; higher dilutions will reduce residual properties.

GROUND APPLICATION

Dilute 1 to 1 by volume when applying with ground equipment.

SPECIFIC USE DIRECTIONS

CROP/SITE GROUPINGS:

Non-Urban Forested Areas

Non cropland (Wasteland, Rights-of-Way, Hedgerows, Ditchbanks, Roadsides, Conservation Reserve Program Acreage, Set-Aside Program Acreage)

Rangeland

Use as a Cereal Grain Bait

INSECT CONTROL

Begin application when insect populations reach recognized economic threshold levels. Where a dosage range is indicated, use the lower rate on light to moderate infestations, young plants and early instars and use the higher rate on heavy infestations, mature plants, advanced instars and adults. Thorough and uniform spray coverage is essential for effective control.

NON-URBAN FORESTED AREAS

CROP	PEST	QUARTS OF SEVIN® 4-OIL ULV PER ACRE	SPECIFIC DIRECTIONS
Non-Urban Forested Areas	Spruce budworm Western spruce budworm	1/2 to 1	Repeat treatments as necessary up to a total of 2 times per year but not more often than once every 7 days.
	Elm spanworm Japanese beetle Fall cankerworm Oak leafroller complex Forest tent caterpillar Spring cankerworm Gypsy moth Saddled prominent	1	For best control of spruce budworm and Western spruce budworm, east of the Rocky Mountains , apply when a majority of the larvae are in the third through sixth instars.
	Douglas-fir tussock moth	2	For best control of spruce budworm and Western spruce budworm in and west of the Rocky Mountains , apply when a majority of the larvae are in the third through fifth instars. For best foliage protection against damage by tussock moth, apply when larvae are in first and second instars. Application to later instars will provide control but with reduced foliage protection. For insect control and foliage protection of high value trees using ground mist blower application: Apply 0.8 pint of spray mixture containing equal volumes of this product and diesel fuel, kerosene or #2 fuel oil per 20 to 30 foot tree when larvae are in early instars. Cover foliage thoroughly but avoid runoff.

RESTRICTIONS AND PRECAUTIONS: NON-URBAN FORESTED AREAS

- Do not apply more than 2 quarts per acre per year.

NON CROPLAND

CROP	PEST	QUARTS OF SEVIN® 4-OIL ULV PER ACRE	SPECIFIC DIRECTIONS
Wasteland Rights-of-Way Hedgerows Ditchbanks Roadsides Conservation Reserve Program Acreage Set-Aside Program Acreage	Grasshoppers	3/8 to 1	Up to 2 applications per year may be made but not more often than once every 14 days. Carefully mark swaths to avoid overapplication.
	Black grass bug Mormon cricket	Range caterpillar Range crane fly	
	Ticks		1

RESTRICTIONS AND PRECAUTIONS: NON CROPLAND

- Do not apply within 14 days of grazing or harvest for forage or hay.
- Do not apply more than a total of 2 quarts per acre per year.

RANGELAND

CROP	PEST	QUARTS OF SEVIN® 4-OIL ULV PER ACRE	SPECIFIC DIRECTIONS
Rangeland	Grasshoppers	3/8 to 1	Do not make more than 1 application per year.
	Black grass bug Mormon cricket	Range caterpillar Range crane fly	Carefully mark swaths to avoid over-application.
	Ticks		1

RESTRICTIONS AND PRECAUTIONS: RANGELAND

- May be harvested or grazed the same day as treatment.
- Do not apply more than 1 quart per acre per year.

CEREAL GRAIN BAIT

DIRECTIONS FOR USE AS A CEREAL GRAIN BAIT

FOR END USE ONLY. NOT FOR REPACKAGING.

FOR USE ONLY BY GOVERNMENT PERSONNEL OR PERSONS UNDER THEIR DIRECT SUPERVISION (e.g., USDA, STATE AND LOCAL EXTENSION PERSONNEL, ETC.).

Mixing Instructions

Mix the appropriate amount of SEVIN® brand 4-OIL ULV Carbaryl Insecticide with a cereal grain substrate (cereal grains or their by-products, such as flaky wheat bran, rolled wheat, rolled oats and/or barley or oat millings) to make a carbaryl bait containing 2% to 10% active carbaryl. For example, for a bait containing 5% carbaryl, mix 1 quart SEVIN® brand 4-OIL ULV Carbaryl Insecticide (contains 1 lb. active carbaryl) with each 19 pounds of cereal grain substrate. Mix only the amount of bait necessary for each insect control program.

Storage Instructions

Store carbaryl bait in cool, dry area out of reach of children and animals. Do not contaminate water, food, or feed by storage or disposal.

NOTE: Carbaryl bait should only be stored temporarily while awaiting application.

Application Instructions

Applications may be made with ground equipment (hand cyclone spreader) or with aerial application equipment with a metered bait spreader attachment.

RANGELAND, WASTELAND, RIGHTS-OF-WAY, HEDGEROWS, DITCHBANKS, ROADSIDES.

Use 0.50 lbs. active ingredient/acre for the control of grasshoppers and Mormon crickets. Use of low bait assay is suggested for control of high grasshopper populations. Do not make more than 1 application per acre per year. May be harvested or grazed the same day as treatment.

LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use when it is used in accordance with such directions; and (c) that the directions, warnings and other statements on this label are based upon responsible experts' evaluation of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants, and of residues on food crops, and upon reports of field experience. Tests have not been made on all varieties or in all states or under all conditions. THE MANUFACTURER NEITHER MAKES, NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE, ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS OR CAUTIONS.

BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION, TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR, THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

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