Furadan® 4 F
Insecticide—Nematicide

EPA REG. NO. 279-2876 ZC
EPA Est. 279-653

Active Ingredient:
*Carbofuran ........................................ 44.0%
Inert Ingredients: .................................... 56.0%
*2:3-Dihydro-2,2-dimethyl-7-benzofuranyl methylcarbamate.
This product contains 4 lbs. of carbofuran per gallon.

KEEP OUT OF REACH OF CHILDREN

DANGER—POISON

PELIGRO

PRECAUCION AL USUARIO: Si usted no lee inglés, no use este producto hasta que la etiqueta lo haya sido explicado ampliamente.

STATEMENT OF PRACTICAL TREATMENT

If swallowed: Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person. Get medical attention.

If inhaled: Remove to fresh air. Call a physician immediately.

If in eyes: Flush with plenty of water for at least 15 minutes. Get medical attention.

If on skin: Wash skin immediately with soap and water. Remove contaminated clothing and wash before reuse.

Antidote

Note to Physician: Carbofuran is a reversible cholinesterase inhibitor. Do not use oximes such as 2-PAM. Start by giving 2 mg. atropine intramuscularly. According to clinical response, continue until signs of atropinization occur (dry mouth or dilated pupils). If in eye, instill one drop of homatropine.

For Emergency Assistance Call (800) 331-3148.

See other panels for additional precautionary information.

ACCEPTED
SEP 2 9 1992

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No.

FMC Corporation
Agricultural Chemical Group
Philadelphia PA 19103

Net Contents

PRECAUTIONARY STATEMENTS

Hazards to Humans (and Domestic Animals)

Danger:

Poisonous if swallowed or inhaled. May be fatal or harmful as a result of skin or eye contact or by breathing spray mist. Causes cholinesterase inhibition. Warning symptoms of poisoning include weakness, headache, sweating, nausea, vomiting, diarrhea, tightness in chest, blurred vision, pinpoint eye pupils, abnormal flow of saliva, abdominal cramps, and unconsciousness. Atropine sulfate is antitodal.

Wear a pesticide respirator jointly approved by the Mining Enforcement and Safety Administration (formerly the U.S. Bureau of Mines) and by the National Institute for Occupational Safety and Health for the provisions of 30 CFR Part II. Wear goggles or face shield for eye protection when measuring or mixing. Wear long sleeved clothing and protective gloves when handling. Wash hands and face before eating or smoking. Bathe at the end of the work day. Change clothing daily and wash before reuse.

Keep all unprotected persons out of the operating area or vicinity where there may be danger of drift.

Environmental Hazards

This product is toxic to fish, birds, and other wildlife. Birds feeding on treated areas may be killed. For waterfowl protection, do not apply immediately before or during irrigation, or on fields in proximity of waterfowl nesting areas, or on fields where waterfowl are known to repeatedly feed. Runoff and drift from treated areas may be hazardous to fish in neighboring areas. Do not apply directly to water.

Notice: It is a federal offense to use any pesticide in a manner that results in the death of a member of an endangered species.

This use of Furadan 4 F may pose a hazard to fish, birds, and other wildlife. Birds feeding on treated areas may be killed. Waterfowl protection, do not apply immediately before or during irrigation, or on fields in proximity of waterfowl nesting areas, or on fields where waterfowl are known to repeatedly feed. Runoff and drift from treated areas may be hazardous to fish in neighboring areas. Do not apply directly to water. This product may not be used in areas where adverse impact on the Federally designated and endangered threatened species noted above is likely. Prior to making applications, the user of this product must determine that no such species are located in or immediately adjacent to the area to be treated. If the user is in doubt whether or not the above named endangered species may be affected, he should contact the regional U.S. Fish and Wildlife Service office (Endangered Species Specialist) or personnel of the State Fish and Game office.

This product is highly toxic to bees exposed to direct treatment or residues on crops. Do not apply this product or allow drift to drift to flowering crops or weeds if bees are visiting the treatment area. Protective information may be obtained from your Cooperative Agricultural Extension Service.

Carbofuran is a chemical which can travel (soak or leach) through soil and can contaminate groundwater which may be used as drinking water. Carbofuran has been found in groundwater as a result of agricultural use. Users are advised not to apply carbofuran where the water table (groundwater) is close to the surface and where the soils are very permeable, i.e., well-drained soils such as sandy loams. Your local agricultural agencies can provide further information on the type of soil in your area and the location of groundwater.

DIRECTIONS FOR USE

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

Do not apply this product through any type of irrigation system.

Do not apply this product to Long Island, N.Y.

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.
Shake Well Before Using

If prolonged intimate contact with corn and or sorghum foliage will result, do not reenter treated fields within 14 days of application without wearing proper protective clothing. For all other situations, do not reenter fields less than 24 hours after application, unless appropriate protective clothing is worn.

Protective clothing means, at least, a hat or other suitable head covering, a long sleeved shirt and long legged trousers or a coverall type garment (all of closely woven fabric covering the body, including the arms and legs), shoes and socks.

Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Inform workers of areas or fields that may not be entered without specific protective clothing. Period of time field must be vacated and appropriate actions to take in case of accidental exposure. An example of such information is given under written warnings. When oral warnings are given, written warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information:

**DANGER**

Area treated with Furadan 4 F insecticide-nematicide on [insert date]. Do not enter without appropriate protective clothing for 24 hours (insert State Department of Agriculture’s reentry interval, if more restrictive).

In case of accidental exposure to pesticide spray, wash the skin thoroughly with soap and water. Remove contaminated clothing and wash before reuse. If in eyes, flush with plenty of water. If inhaled, go to an area where the pesticide has not been applied. Get medical attention if needed.

**STORAGE AND DISPOSAL**

**Pesticide Storage**
Not for use or storage in or around the house.

Do not store below 35°F (2°C).

Keep out of reach of children and animals. Store in original container only. Store in a cool, dry place and avoid excess heat. Carefully open container, avoid spillage. Use in labeled containers. Thoroughly rinse down the inside of the tank and cycle the rinsate through the pump and metering system, repeating this rinsing and cycling procedure at least three times. Refer to the Pesticide Disposal statement for directions for disposal of rinsate.

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call FMC: (800) 331-3148

**To confine spill:** If liquid, dike surrounding area or absorb with sand, cat litter or commercial clay. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

**Pesticide Disposal**

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of as use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container Disposal**

Metal Containers: Triple rinse (or equivalent). Then offer for recycling, reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Do not cut or weld metal containers.

Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. By burning. If burned, stay out of smoke.

Returnable/Refillable Sealed Container: Do not rinse container. Do not empty remaining formulated product. Do not break seals. Return intact to point of purchase.

**GENERAL INSTRUCTIONS**

Do not plant with any crop other than alfalfa, artichokes, bananas, barley, coffee, corn (field, pop or sweet), cotton, cranberries, cucurbits (cucumbers, melons, pumkins, squash), flax, grapes, non-bearing fruit, oats, ornamentals, peanuts, peppers, potatoes, rice, sweet crops (Bermuda grass, spinach), sorghum, strawberries, soybeans, sugar beets, sugar cane, sunflowers, tobacco, or wheat for at least 10 months following use of the product.

Do not rotate with any crop on soil treated at greater than 3.0 pounds active ingredient per acre for at least 10 months.

**Alfalfa:** Alfalfa Weevil Larvae, Egyptian Alfalfa Weevil, Pea Aphid, and in N.Y. State for Snout Beetle control—Apply the amount of Furadan 4 F indicated in the chart, when feeding is noticed or when insects appear. Alfalfa Weevil Adult—Apply 1 to 2 pints per acre when insects appear. Apply the best available preplant, preemergent, and postemergent herbicides. Apply 1 to 2 pints per acre when insects appear. Lygus Bugs—Apply 2 pints per acre prior to bloom. Grasshoppers—Apply 1 to 2 pints per acre when grasshopper feeding is noticed. For control of Sitona, Aphids, and other insects—Apply Furadan 4 F at 1 to 2 pounds per acre after insect feeding is noticed or when insects appear. Do not apply more than twice per season. Do not apply more than once per cutting. Do not use more than 1 pint per acre in the second application. Apply only to fields planted pure stands of alfalfa. Do not move bees to alfalfa fields within 7 days of application. Observe the number of days indicated after application before cutting or grazing.

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**GENERAL INSTRUCTIONS**

Do not plant with any crop other than alfalfa, artichokes, bananas, barley, coffee, corn (field, pop or sweet), cotton, cranberries, cucurbits (cucumbers, melons, pumkins, squash), flax, grapes, non-bearing fruit, oats, ornamentals, peanuts, peppers, potatoes, rice, sweet crops (Bermuda grass, spinach), sorghum, strawberries, soybeans, sugar beets, sugar cane, sunflowers, tobacco, or wheat for at least 10 months following use of the product.

Do not rotate with any crop on soil treated at greater than 3.0 pounds active ingredient per acre for at least 10 months.

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Southwestern Corn Borer—Use Furadan 4 F at 1 to 2 pints per acre as a broadcast fertilizer. Treated seed is not necessary when insecticidal levels of application are made. Where possible, two applications per season will be more effective. Do not make more than two applications per season (0 to 14 grasshoppers per sq. yd.). Apply in sufficient water to achieve adequate coverage with a minimum of 2 gallons per acre with air equipment or 10 gallons of finished spray per acre with ground equipment. Observe all precautions listed below. Banks Grass Mites (suppression)—Furadan 4 F when applied at 2 pints per acre for the control of European or Southwestern Corn Borers will also suppress Banks Grass Mites.

Grasshoppers—Use Furadan 4 F as a foliar spray at 1/2 to 1/2 pint per acre when insects appear or finished heads emerge. Do not apply within 7 days of harvest. Minimum gallonage requirements: 10 gallons of finished spray per acre with ground equipment and 3 gallons per acre with aircraft. Do not use this product on Long Island, New York. For waterfowl protection do not apply:—immediately before or during funnel irrigation—on fields in proximity of waterfowl nesting areas—on fields where waterfowl are known to be regularly fed.

Soybeans—At Planting Application: Nemadectes (Root Knot, Cyst, Stunt, Ring, Sting, Spiral, Lesion, Lancer, Dagger, Stubby Root)—Use 3.75 to 5 fluid ounces per 1,000 linear feet of row (3 to 4 pints per acre with 42-inch row spacing) or 2.5 gallons of Furadan 4 F per 1,000 linear feet of row (1 quart per acre with 40-inch row spacing) were used in an at-planting application. Minimum gallonage requirements: 20 gallons of finished spray per acre with ground equipment, 1/4 gallons per acre with aircraft. Soybeans—Foliar Application: Mexican Bean Beetle—Use Furadan 4 F at 1/2 to 1/2 pint per acre when insects appear. Grasshoppers—Use Furadan 4 F at 1/2 to 1/2 pint per acre when insects appear. Do not use Furadan 4 F as a foliar application if Furadan 10G, Furadan 15G, Furadan 15G was applied to soybeans at planting time. Do not make more than 2 foliar applications per season. Do not apply within 21 days of harvest. Do not graze or feed foliar treated forage to livestock or cut for silage or hay. Minimum gallonage requirements: 20 gallons of finished spray per acre with ground equipment, 1/2 gallons per acre with aircraft.

Strawberry: (For use in Washington & Oregon) Root Weevils—Use Furadan 4 F at 2 to 4 pints per acre (2.6 to 5.1 fluid ounces per 1,000 linear feet of row for 42 inch row spacing). Apply as a 12 to 12 inch band over row after last harvest but do not make more than one application per season. Do not apply if berries are present.

Sunflowers (Confectionary and Oil)—At Planting Sunflower Stem Weevil, Sunflower Beetle, Grasshoppers—Use 2.5 to 5.0 fluid ounces of Furadan 4 F per 1000 linear feet of row (1 to 2 quarts per acre with 30 inch row spacing). Apply directly into the seed furrow. APPLY 1/2 inch below seed. Do not mix with water or liquid fertilizer. When Furadan 4 F is used with liquid fertilizers, premix one part of Furadan 4 F with two parts of water. Check physical compatibility before mixing large quantities. Add the premix to the tank first and then mix well with the carrier. Stir Tate agitator in the tank after mixing and during application. Do not apply under saturated soil conditions. Use the higher rate when heavier insect infestations are anticipated.

Sunflowers (Confectionary and Oil)—Foliar Application Sunflower Moth, Banded Sunflower Moth, Stem Weevils, Seed Weevils—Use 4 pints of Furadan 4 F at 1 pint per acre. Grasshoppers—Use Furadan 4 F at 1/4 to 1/2 pint per acre. Sunflower Beetle—Use Furadan 4 F at 1/4 to 1/2 pint per acre. Apply to 6 inch head high. Do not mix with water or liquid fertilizer. When Furadan 4 F is used with liquid fertilizers, premix one part of Furadan 4 F with two parts of water. Check physical compatibility before mixing large quantities. Add the premix to the tank first and then mix well with the carrier. Stir Tate agitator in the tank after mixing and during application. Do not apply under saturated soil conditions. Use the higher rate when heavier insect infestations are anticipated.

Pine Seedlings: Pales Weevil and Pitch-Eating Weevil in pine plantations—Apply a 1% W/W active Furadan clay slurry (see following for preparation) to the roots of pine seedlings prior to transplanting. Treat seedlings by dipping roots or use any other suitable means which will produce thorough coating. Keep roots moist until transplanted. Prepare the slurry as follows: Add 1.6 ounces (2% tablespoons) of Furadan 4 F to 1/4 gallon of water. Mix thoroughly. Add 2 pounds of pulverized kaolin clay (0.5% 4.5) to this suspension. Mix thoroughly. This is sufficient to treat the roots of 150 to 250 5 inch seedlings. Red spruce needle scale is required for indoor treatment. Wear protective unlined rubber gloves at time of application. Users should avoid contamination of the inside of the gloves. If contamination of the inside of the gloves is suspected, the gloves should be immediately discarded.

Potatoes: Potato Tubeworm (Virginia only), Colorado Potato Beetle, European Corn Borer, Potato Flea Beetle, Potato Leafhopper—Use 1 to 2 pints of Furadan 4 F if sufficient water to treat one acre. Apply when insects first appear and repeat as necessary to maintain control. Do not make more than 8 foliar applications per season. Do not apply more than 6 pounds of the foliage per acre. Furadan 10 G or Furadan 15 G was used at planting. Do not apply more than 2 pints per application. Do not apply within 14 days of harvest. Minimum gallonage requirements: 10 gallons of finished spray per acre with ground equipment and 3 gallons per acre with aircraft. Do not use this product on Long Island, New York. For waterfowl protection do not apply:

- immediately before or during funnel irrigation
- on fields in proximity of waterfowl nesting areas
- on fields where waterfowl are known to be regularly fed

Small Grains (Wheat, Oats, Barley)—Grasshoppers—Use Furadan 4 F at 1/4 to 1/2 pint per acre when insects appear. Cereal Leaf Beetle—Use 1/2 pint of water per acre when insects appear. Apply before heads emerge from the boot. Do not make more than two applications per season. Do not feed treated forage to livestock.

Minimum gallonage requirements: Ten gallons of finished spray per acre with ground equipment, two gallons per acre with aircraft.

For waterfowl protection do not apply on fields in proximity of waterfowl nesting areas and/or on fields where waterfowl are known to be regularly fed.
Tobacco—Burley: Flea Beetles—Use 1 gallon of Furadan 4 F per acre. Apply as a broadcast spray over the soil surface prior to transplanting and incorporate into the top 3 inches of soil with a suitable device.

Tobacco—Flue-Cured: Flea Beetles, Wireworms, and to aid in the control of Budworms and Root Knot Nematodes—Use 1½ gallons of Furadan 4 F per acre OR—Use 1 gallon of Furadan 4 F per acre for control of Flea Beetles only. Apply as a broadcast spray over the soil surface prior to forming beds. Incorporate into the top 3 inches of soil. Form beds and plant as usual. This product may induce flecking of the bottom or lower leaves.

Dealers Should Sell in Original Packages Only.

Terms of Sale or Use: On purchase of this product buyer and user agree to the following conditions:

Warranty: FMC makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Except as warranted, the product is sold as is. Buyer and user assume all risk of use and/or handling and/or storage of this material when such use and/or handling and/or storage is contrary to label instructions.

Directions and Recommendations: Follow directions carefully. Timing and method of application, weather and crop conditions, mixture with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the seller and are assumed by the buyer at his own risk.

Use of Product: FMC’s recommendations for the use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice.

Damages: Buyer’s or user’s exclusive remedy for damages for breach of warranty or negligence shall be limited to direct damages not exceeding the purchase price paid and shall not include incidental or consequential damages.