First Aid

Contains an N-methyl carbamate that inhibits cholinesterase

If Swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

If in Eyes: 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 poison control center or doctor for treatment advice.

If Inhaled: Move person 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 poison control center or doctor for further treatment advice.

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 antidotal.

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 C 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 or Butyl Rubber, or Nitrile Rubber or Neoprene Rubber or Polyvinyl Chloride or Viton; Shoes plus socks; Protective eyewear when mixing or loading, when performing maintenance or repairs (such as repairing/replacing hoses, cleaning, replacing or unplugging nozzles) on contaminated equipment or equipment containing residual carbofuran, or when cleaning the equipment or vehicle containing, or contaminated with carbofuran. For exposure in enclosed areas: A respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE prefilter; For exposures outdoors: Dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any R, P or HE filter.

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

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. Drift and runoff from treated areas may be hazardous to fish in neighboring areas. Do not dispose of equipment washwater or rinsate in streams, lakes or other surface water bodies. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.

USE OF THIS PRODUCT FOR BAITING OR IN BA IT STATIONS IS STRICKLY PROHIBITED AND CAN RESULT IN CRIMINAL AND CIVIL PENALTIES UNDER FEDERAL LAW. The maximum fine for misuse by custom applicators under FIFRA is $25,000. However, fines may also be levied under other statutes.

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. The use of Furadan® 4F insecticide-nematicide may pose a hazard to Federally designated endangered/threatened species. Suggested measures to protect endangered species in your county may exist in an EPA “Interim Measures” pamphlet. You may call EPA’s Endangered Species Hotline, 1-800-447-3813 to find out if an “Interim Measures” pamphlet is available for your county and have one sent to you. Also you can consult your local county extension office or pesticide state lead agency to determine whether they have imposed any requirements in your area to protect endangered and threatened species.

This product is highly toxic to bees exposed to direct treatment or residues on crops. Do not apply this product or allow it to drift to blooming 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 (seep or leach) through soil and 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 loamy sands. Your local agricultural agencies must be notified of purchase for handling/disposal information. Do not apply this product through any type of irrigation system. Do not use this product on Long Island, N.Y.

AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during restricted entry interval (REI) of 48 hours (except for foliar application to corn or sunflowers). After foliar application on corn and sunflowers, do not enter or allow worker entry into treated area during restricted entry interval (REI) of 14 days. Exception: for last 12 days of REI, workers may enter treated area to perform hand labor or other tasks involving contact with anything that has been treated, such as plants, soil, or water, without time limit, if they wear early entry personal protective equipment listed below.

PPE required for early entry to treated areas 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 or Butyl Rubber, or Neoprene Rubber or Polyvinyl Chloride or Viton, and Shoes plus socks.

Notify workers of application by warning them orally and by posting warning signs at entrances to treated areas.

STORAGE AND DISPOSAL

Pesticide Storage

Not for use or storage in or around the house. Furadan 4F is freeze/thaw stable. If frozen, thaw and agitate before use. To keep the product from freezing, store above 32°F.

Keep out of reach of children and animals. Store in original containers. Store in cool, dry place and avoid excess heat. Carefully open container before use. After partial use, replace lid and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticide, fertilizer, water, food, or feed by storage or disposal.

Bulk holding containers used for Furadan 4F, and associated equipment (pumps, meters, hoses, etc.), should be thoroughly rinsed to avoid cross contamination with materials subsequently introduced into bulk system. Begin by draining remaining product from tank and equipment and storing in approved appropriately labeled containers. Thoroughly rinse inside of tank and cycle rinsate through pump and metering system, repeating rinsing and cycling procedure at least three times. Refer to Pesticide Disposal statement for disposal of rinsate.

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Contain spill. Call FMC: 800-331-3148. To contain spill: Dike surrounding area or absorb with sand, cat litter or commercial clay. Place damaged package in holding container. Identify contents.

Pesticide Disposal

Wastes associated with this pesticide are acute hazardous waste and must be handled and disposed of in accordance with local, state and federal regulation. Improper disposal of excess pesticide, spray mixture, containers or rinsate is a violation of federal law. If these materials are generated and must be disposed of, or if product cannot be used according to label instructions or cannot be returned and must be disposed, contact State Environmental Control Agency or Hazardous Waste representative at nearest EPA Regional Office for disposal guidance.

Container Disposal

Non-returnable Plastic or Metal Containers: If not triple rinsed to remove product, empty Furadan pesticide containers are acute hazardous wastes and must be disposed of in accordance with local, state and federal regulation. Improper disposal of empty pesticide containers or rinsate is a violation of Federal Law. Triple rinse containers. Dispose of rinsate as stated in Pesticide Disposal above. Offer triple rinsed container for recycle or reconditioning, or puncture triple rinsed containers and incinerate or contact State Environmental Control Agency or Hazardous Waste representative at nearest EPA Regional Office for disposal guidance. DO NOT cut or weld metal containers.

Returnable/Refillable Sealed Container: Do not break seals or add any material to the containers. Do not rinse container or empty remaining product. Return the container intact to point of purchase. Contact point of purchase before returning containers. If seal is broken, container is damaged or material has been added to the container, contact the point of purchase for handling/disposal information.
GENERAL INSTRUCTIONS

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

Soil Application Precautions
For standard planters and applications systems, do not start insecticide application until planter enters the soil, and stop insecticide application before pulling planter out of the soil. If contaminated seed is exposed to the surface cover completely with soil.

For standard planters equipped with in-furrow systems having automatic shut-off systems (e.g., Custom Delivery Systems (CDS), Custom Injection Systems (CIS)) be sure shut-off devices are maintained and operating properly.

DO NOT FLUSH, DRAIN OR PUMP TANK, LINES OR RINSE ON NON-CROPLAND SURFACES. Dispose of residual spray mixture left in tank, line(s) and/or rinseate from first flushing of tank and line(s) by application to cropland as directed on this label.

Spray Drift Management
The interaction of many equipment-and-weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions.

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

Importance of Droplet Size
The most effective way to reduce drift potential is to apply large droplets (>150-200 microns). The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Environmental conditions and pest pressure may affect how an applicator balances drift control and coverage. APPLYING LARGER DROPLETS REDUCES DRIFT POTENTIAL, BUT WILL NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS! See Wind, Temperature and Humidity, and Temperature Inversion sections of this label.

Controlling Droplet Size - General Techniques
- **Volume** - Use high flow rate nozzles to apply the highest spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** - Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size. WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.
- **Nozzle Type** - Use a nozzle type that is designed for the intended application. Consider using low-drift nozzles.

Controlling Droplet Size - Aircraft
- **Number of Nozzles** - Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.
- **Nozzle Orientation** - Orienting nozzles so that the spray is emitted backwards, parallel to the airstream will produce larger droplets than other orientations.
- **Nozzle Type** - Solid stream nozzles (such as disc and core swirl plate removed) oriented straight back produce larger droplets than other orientations.
- **Boom Length** - The boom length should not exceed 1/4 of the wing or rotor length - longer booms increase drift potential.
- **Application Height** - Application more than 10 feet above the canopy increases the potential for spray drift.

Boom Height
Setting the boom at the lowest labeled height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. During ground application, the boom should remain level with crop and have minimal bounce.

Wind
Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. AVOID GUSTY AND WINDLESS CONDITIONS.

Note: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they effect spray drift.

Temperature and Humidity
When making applications in hot and dry conditions, set up equipment to produce larger droplets to reduce effects of evaporation.

Temperature Inversions
Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be indicated by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Sensitive Areas
Risk of exposure to adjacent areas that are known habitat for threatened or endangered species can be reduced by avoiding applications when wind direction is toward the sensitive area.

Crop Use Recommendations

**Field Corn—Foliar Application**
European Corn Borer—Use 1 1/2 to 2 pints of Furadan® 4F per acre as a foliar spray. Follow moth trap detections to assure timely monitoring for egg masses and proper initiation of treatments. Refer to Cooperative Extension Pest Management Guidelines. Rate used will depend on desired residual activity. If infestation continues, retreat in 7 days after a 1 pint application and within 14 days after a 2 pint application. Apply in sufficient water for thorough coverage using a minimum of 1 gallon of finished spray per acre. Observe all precautions listed below.

Southwestern Corn Borer—Use Furadan 4F at 1 to 2 pints per acre as a broadcast foliar spray. Follow moth trap detections to assure timely monitoring for egg masses and proper initiation of treatments. Refer to Cooperative Extension Pest Management Guidelines. Rate used will depend on desired residual activity. If infestation continues, retreat in 7 days after a 1 pint application and within 14 days after a 2 pint application. Apply in sufficient water for thorough coverage using a minimum of 1 gallon of finished spray 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 4F when applied at 2 pints per acre for the control of European or Southwestern Corn Borers will also suppress Banks Grass Mites.

Grasshoppers—Apply Furadan 4F as a foliar spray at 1/4 to 1/2 pint per acre when insect populations and/or damage reaches economic thresholds. Refer to Cooperative Extension Pest Management Guidelines. —Use the 1/4 pint rate under light to moderate population levels (0 to 14 grasshoppers per sq. yd.). —Use the 1/2 pint rate under more severe population levels (15 or more grasshoppers per sq. yd.).

Apply in sufficient water for thorough coverage using a minimum of 2 gallons of finished spray per acre with air equipment or 10 gallons of finished spray per acre with ground equipment. Observe all precautions listed below.

Do not make more than two foliar applications per season or more than one foliar application if Furadan 4F was used as a soil application pest control treatment. Do not forage cut or harvest within 30 days of last application. Do not use Furadan 4F as a foliar treatment on seed corn.

In areas having greater than 90% sand and less than 1% organic matter where the water table (groundwater) is shallow (less than thirty feet):

-Do not make a foliar application if Furadan 4F was used as a soil application pest control treatment.
-Do not apply more than 2 pints per acre per season as a foliar treatment.

**Pine Seedlings (Southeastern U.S. Only):** 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 methods which allows. Keep trees wet until transplanting. Prepare the slurry as follows: Add 1.6 ounces (2 1/2 tablespoons) of Furadan 4F to 1/2 gallon of water. Mix thoroughly. Add 2 pounds of pulverized kaolin clay (pH 4.5) to this suspension. Mix thoroughly. This is sufficient to treat the roots of 150 to 200 seedlings. Adequate ventilation is required for indoor treatment.

**Potatoes:** Potato Tubeworm (Virginia only); Colorado Potato Beetle, European Corn Borer, Potato Flea Beetle, Potato Leafother—Use 1 to 2 pints of Furadan 4F in sufficient water to treat one acre. Apply as a foliar spray when insect populations and/or damage reaches economic thresholds. Refer to Cooperative Extension Pest Management Guidelines.

Do not make more than 2 foliar applications per season. Do not apply more than 2 pints per acre per application. Do not make a foliar application of Furadan 4F on potatoes if Furadan has been applied at planting. Do not...
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 so 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.

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For waterfowl protection do not apply:
— immediately before or during furrow irrigation
— on fields in proximity of waterfowl nesting areas
— on fields where waterfowl are known to repeatedly feed

Sunflowers (Confectionary and Oil)— At Planting
Sunflower Stem Weevil, Sunflower Beetle, Grasshoppers— Use 2.5 fluid ounces of Furadan 4F per 1000 linear feet of row (1.4 quarts per acre with 30 inch row spacing). Apply directly into the seed furrow. Furadan 4F may be mixed with water or liquid fertilizer. When Furadan 4F is used with liquid fertilizers, premix one part of Furadan 4F with two parts of water. Check physical compatibility before mixing large quantities. Add this premix to the tank of fertilizer along with the rinsings from the premixing container. Maintain agitation in the tank after mixing and during application. Do not mix until ready to use. Observe all precautions listed in the Soil Application Precautions Section.

Sunflowers (Confectionary and Oil)—Foliar Application
Sunflower Moth, Banded Sunflower Moth, Stem Weevils, Seed Weevils— Use Furadan 4F at 1 pint per acre. Grasshoppers— Use Furadan 4F at ¼ to ½ pint per acre. Sunflower Beetle— Use Furadan 4F at ¼ to ½ pint per acre. Apply as a foliar spray when insect populations and/or damage reaches economic thresholds, refer to Cooperative Extension Pest Management Guidelines. Apply prior to bloom. When a rate range is indicated, use higher rate for heavier insect infestations. Do not make more than two (2) foliar applications per season. Apply a minimum of two gallons of finished spray per acre with aircraft and 10 gallons by ground equipment. Do not harvest crop within 28 days of last application.