

# Tubrix™

## Insecticide

**TENKÖZ**

### Emulsifiable Concentrate

Active Ingredient	By Weight
Indoxacarb (S)-methyl 7-chloro-2,5-dihydro-2-[[methoxycarbonyl][4-(trifluoromethoxy)phenyl]amino]carbonyl]indeno [1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate	15.84%
<b>Other Ingredients</b>	84.16%
<b>TOTAL</b>	100%

Contains 1.25 lb active ingredient per gallon

**EPA Reg. No. 279-9596-55467**

**EPA Est. No. 5905-GA-01**

**Nonrefillable Container**

### KEEP OUT OF REACH OF CHILDREN CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

#### FIRST AID

**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 by the poison control center or doctor. Do not give anything to an unconscious person.

**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 ON SKIN OR CLOTHING:** Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. 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 by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For additional information on this pesticide product (including health concerns, medical emergencies, or pesticide incidents), call CHEMTREC 1-800-424-9300, twenty-four (24) hours per day, seven (7) days per week.

Distributed By  
Tenkoz, Inc.  
1725 Windward Concourse  
Suite 410  
Alpharetta, GA 30005

**Net Contents: 2.5 Gallons**

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

### CAUTION

Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing dust, vapor, or spray mist. Harmful if swallowed, absorbed through skin or if inhaled. Wash hands 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. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

### USER SAFETY RECOMMENDATIONS

**USERS SHOULD:** Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing and/or PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

#### Applicators and other handlers must wear:

Long-sleeved shirt, long pants, shoes, and socks; and

Chemical-resistant gloves made of Butyl Rubber ≥14 mils, Natural rubber ≥14 mils, Neoprene Rubber ≥14 mils, or Nitrile Rubber ≥14 mils.

Follow manufacturer's instructions for cleaning/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. 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. **IMPORTANT:** when reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicator and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to mammals, birds, fish and aquatic invertebrates. 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 contaminate water when disposing of equipment washwater or rinsate. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Runoff of this product will be reduced by avoiding application when rainfall is forecasted to occur within 24 hours. Rinsing application equipment over the treated area will help avoid runoff to water bodies or drainage systems. Do not apply to any impervious surfaces which may contact or lead directly to surface water, storm drains, or urban runoff conveyance systems (gutters). This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are foraging the treatment area.

### DIRECTIONS FOR USE

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

### USE RESTRICTIONS

- 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.
- Do not formulate this product into any other end-use products without written permission of Tenkoz.
- Do not use in greenhouses.
- Not for use on ornamental plants or plants being grown for ornamental purposes.
- Not for use in residential areas.
- For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### AGRICULTURAL USE REQUIREMENTS

TUBRIX™ insecticide must be used 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.

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, wear:

Coveralls over long-sleeved shirt and long pants;

Socks plus chemical resistant footwear; and

Chemical-resistant gloves made of Butyl Rubber ≥14 mils, Natural rubber ≥14 mils, Neoprene Rubber ≥14 mils, or Nitrile Rubber ≥14 mils.

## **PRODUCT INFORMATION**

TUBRIX insecticide is an emulsifiable concentrate that can be applied as a foliar spray to control many important insects. TUBRIX insecticide is diluted with water for application. Always shake well before use.

For fields to which applications of TUBRIX insecticide will be made, construct a vegetative filter strip if one does not already exist. Existing and new filter strips must be, at a minimum, 10-foot-wide and composed of grass or other permanent vegetation between the field edge and down gradient aquatic habitat (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes or natural ponds; estuaries; and commercial fish farm ponds). Vegetative filter strips must be maintained to optimize their utility. Only apply products containing indoxacarb onto fields where a maintained vegetative buffer strip of at least 10 feet exists between the field and down gradient aquatic habitat.

CHEMIGATION: Do not apply this product through any type of irrigation system except for application to alfalfa, corn (field), corn, (pop), corn (grown for seed), cotton, peanut, potato and soybean, and as allowed by Federal Supplemental and Special Local Need (SLN) labeling. (See "Application By Chemigation" section of the label.)

## **INTEGRATED PEST MANAGEMENT**

Tenkos supports the use of Integrated Pest Management (IPM) programs to control pests. This product may be used as part of an IPM program which can include biological, cultural, and genetic practices aimed at preventing economic pest damage. IPM principles and practices include field scouting or other pest detection methods, correct target pest identification, population monitoring, rotation of insecticides with different modes-of-action, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants, product manufacturer or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop or site systems in your area.

## **SCOUTING**

Monitor insect populations to determine whether or not there is a need for application of TUBRIX insecticide based on label recommendations and locally determined economic thresholds. More than one treatment of TUBRIX insecticide may be required to control a population of pests.

## **PESTICIDE RESISTANCE MANAGEMENT**

For resistance management, TUBRIX insecticide contains the active ingredient indoxacarb which is a Mode of Action Group 22A insecticide. Insecticides with the same group number affect the same biological site of action on the target pest and when used repeatedly in the same treatment area, naturally-occurring resistant individuals may survive correctly applied insecticide treatments, reproduce, and become dominant.

To delay the development of insecticide resistance, a resistance management strategy should include incorporation of cultural and biological control practices, alternation to different mode of action insecticides on succeeding generations, targeting the most susceptible life stage, and where possible controlling multiple life stages of the same pest.

Consult with your local or state agricultural authorities or product manufacturer, or visit the Insecticide Resistance Action Committee (IRAC) on the web at <http://www.irac-online.org> for more information about developing a resistance management strategy.

Unless directed otherwise in the specific crop/pest sections of this label, follow these guidelines to delay the development of insecticide resistance:

- Apply TUBRIX insecticide and other Group 22A insecticides within a single "treatment window" to minimize exposing successive generations of a pest species to the same mode of action insecticides.
- A "treatment window" is defined as the period of residual insecticidal activity provided by one or more applications of products with the same mode of action not to exceed approximately 30 days.
- Within the Group 22A "treatment window", make no more than 2 applications of TUBRIX insecticide or other Group 22A insecticides.
- Following a Group 22A "treatment window", rotate to a "treatment window" of effective insecticides with a different mode of Action Group Number. The period between Group 22A "treatment windows" should be at least 30 days.
- For short cycle crops (< 50 days), the duration of the crop cycle may be considered as the Group 22A "treatment window" if no Group 22A insecticides are used during the next crop cycle at the same farm location.
- If TUBRIX insecticide is tank mixed with other insecticides, then apply rates that are individually registered for use against the target species. Do not rely on the same mixture repeatedly to control the same pest species and follow the same "treatment window" rotation recommendation described above for the tank-mixed products.
- Use labeled rates of TUBRIX insecticide when applied alone or in tank mixtures.
- Monitor after application for unexpected target pest survival. If insect resistance is suspected consult with your manufacturer's representative, local university specialist, or certified pest control advisor.

If resistance to TUBRIX insecticide develops in your area other products with a similar mode of action (Mode of Action Group 22A) may not provide adequate control.

## **BENEFICIAL ARTHROPODS**

Other than reducing the target pest species as a food source, TUBRIX insecticide helps conserve certain beneficial arthropods, including parasitic wasps, predatory mites, big-eyed bugs, damsel bugs, minute pirate bugs, and spiders. While these beneficials cannot be relied upon to control pests, they are of potential value and can be monitored along with pests in pest management programs on these crops.

## APPLICATION

Apply at the listed rates when insect populations reach locally determined economic thresholds. Consult the cooperative extension service, professional consultants or other qualified authorities to determine appropriate threshold levels for treatment in your area.

TUBRIX insecticide applications should target eggs and small instar larvae.

Follow-up treatments of TUBRIX insecticide should be applied, as needed, to keep pest populations within threshold limits. Apply TUBRIX insecticide at 5 to 7 day intervals or as needed to manage specific target insect pests, as specified in the specific crop sections, to maintain control.

Use sufficient water to obtain thorough, uniform coverage.

Because TUBRIX insecticide is most effective through ingestion of treated plant material, thorough spray coverage is essential for optimum control of targeted pest insects. Using increased water volumes will typically result in better spray coverage, especially under adverse conditions such as dry, hot weather or dense plant foliage. TUBRIX insecticide may be applied by ground, aerial or overhead sprinkler chemigation application equipment. For aerial application use the following directions unless otherwise specified in specific crop/pest sections of this label or EPA-approved supplemental labeling: use a minimum of 3 gal water per acre (gpa) [minimum of 5 gal water per acre in Arizona and California]. For ground application use the following directions unless otherwise specified in specific crop/pest sections of this label or EPA-approved supplemental labeling: use a minimum of 5 gal. water per acre. Higher gallonage will provide better coverage and performance. For overhead chemigation applications, see "Application by Chemigation" section of the label for guidance on water volumes to be used.

**Use of Adjuvants:** In some situations where coverage is difficult to achieve such as closed canopy, dense foliage, plants with waxy leaf surfaces, or less than optimum application equipment, an adjuvant may improve performance. Use only adjuvant products that are labeled for agricultural use and follow the directions on the manufacturer's label.

## SPRAY PREPARATION

Spray equipment must be clean and free of previous pesticide deposits before applying TUBRIX insecticide. Fill spray tank 1/4 to 1/2 full of water. Add TUBRIX insecticide directly to spray tank. Mix thoroughly to fully disperse the insecticide; once dispersed continued agitation is required. Use mechanical or hydraulic means; do not use air agitation. Spray mix must not be stored overnight in spray tank. Observe the most restrictive of the labeling limitations and precautions of all products used in mixtures.

**Tank Mixing and Compatibility** - Since formulations may be changed and new ones introduced, it is a best practice that users premix a small quantity of a desired tank mix and observe for possible physical incompatibility (settling out, flocculation, crystallization, etc.). It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Do not exceed label application rates. This

product cannot be mixed with any product containing a label prohibition against such mixing.

Spray volumes of less than 3 gal of water and tank mixtures of more than two products can increase the chances of incompatible spray mixtures. A jar test (as described below) should be conducted when label guidance is not given or prior experience with a specific tank mixture is unknown. The jar test should follow the mixing sequence below in water volume proportional to the planned spray tank water volume to assure that the tank mixture is compatible. Constant agitation may be needed during mixing and spraying of mixtures. TUBRIX insecticide is compatible with most commonly used plant protectants.

Steps to conduct a jar test to determine physical tank mix compatibility of TUBRIX insecticide with other products:

- Add clean water to the jar in proportion to the planned water volume that will be used in the spray tank (a jar size of 16 oz is acceptable).
- While wearing the most restrictive PPE, mix proper proportional amounts of TUBRIX insecticide and desired tank mix partner(s) as will be present in the spray tank. Add one product at a time following the sequence of addition according to formulation type provided in this label.
- Seal and shake mixture after each product is added.
- Allow to stand for 1 hour.
- View jar to determine if settling, flocculation, crystallization or any other undesirable changes have happened.
- If none of the above is observed or the solution can be easily remixed after shaking, the mixture is compatible with TUBRIX insecticide.
- If the tank mixture is not compatible, a higher water volume, reduced rate of the tank mix partner(s), reduced number of tank mix partners or a compatibility agent may be needed.

### Tank Mixtures and Crop Safety

Crop varieties can differ in their responsiveness to tank mixtures, and environmental conditions can influence product performance and crop response. It is not possible to test TUBRIX insecticide alone or with all possible tank mix combinations on all varieties under all environmental conditions. When considering the use of a tank mixture on a labeled crop without prior experience, or which is not specifically described on TUBRIX insecticide product labeling or in other Tenkoz product use instruction, it is important to check crop safety first. To test for crop safety prepare a small volume of the intended tank mixture, apply it to an area of the target crop as directed by both this and the tank mix partner product labels, and observe the treated crop to ensure that a phytotoxic response does not occur.

Use of TUBRIX insecticide in any tank mixture applications that is not specifically described on TUBRIX insecticide product labeling or in other Tenkoz product use instructions, could potentially result in crop injury. Follow the precautions on this label and on the label for any other product to be used in tank mixtures before making such applications to your crops. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

**Tank Mixing Sequence** - Add different formulation types in the sequence indicated below.\* Allow time for complete mixing and dispersion after addition of each product.

1. Products in water soluble bags (WSB)
2. Water soluble granules (SG)
3. Water dispersible granules (WG, XP, DF)
4. Wettable powders (WP)
5. Water based suspension concentrates (SC)
6. Water soluble concentrates (SL)
7. Suspoemulsions (SE)
8. Oil Based suspension concentrates (OD)
9. TUBRIX insecticide or other emulsifiable concentrates (EC)
10. Surfactants, oils, or adjuvants
11. Soluble fertilizers
12. Drift retardants

\*- Unless otherwise specified by manufacturer directions for use or by local expertise.

## **SPRAY TANK CLEANOUT**

Prior to application, start with clean, well maintained application equipment. Immediately following application, thoroughly clean all spray equipment to reduce the risk of forming hardened deposits which might become difficult to remove.

Drain spray equipment. Thoroughly rinse sprayer and flush hoses, boom and nozzles with clean water.

Clean all other associated application equipment. Take all necessary safety precautions when cleaning equipment. Do not clean near wells, water sources or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

## **APPLICATION BY CHEMIGATION – ALFALFA (FORAGE AND HAY), CORN (FIELD), CORN (GROWN FOR SEED), CORN (POP), COTTON, PEANUT, POTATO AND SOYBEAN (HULLS AND SEED)**

### **Instructions for the Use of TUBRIX insecticide in Overhead Sprinkler Chemigation Systems.**

Overhead chemigation applications offer the advantage of greater penetration and coverage of the target plant. However, typical chemigation applications are more dilute than ground or aerial applications. For best results, it is recommended to keep the concentration of TUBRIX insecticide as high as possible in the application. Apply TUBRIX insecticide in 0.1 to 0.2 inches of water per acre. TUBRIX insecticide is most active as an ingestion insecticide, although it does have activity as a direct contact insecticide. For best results, applications of TUBRIX insecticide should ensure thorough coverage of the target plant to maximize the opportunity for target insects to ingest TUBRIX insecticide.

### **Types of Chemigation Systems:**

TUBRIX insecticide may be applied only through overhead sprinkler irrigation systems. Overhead irrigation systems include the following; center pivot, end tow, hand move, lateral move, side roll, solid set and wheel line. Center pivot and lateral move irrigation systems are preferred. Other overhead sprinkler systems may be used if they provide uniform water distribution. Do not apply TUBRIX insecticide through any other type of irrigation system. Do not use filter screens smaller than 50 mesh throughout the system, due to possible build up of material on 100 mesh or smaller screens.

### **Directions for Chemigation:**

#### **Preparation**

A pesticide tank is recommended for the application of TUBRIX insecticide in chemigation systems. Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard clean-out procedure. Dispose of any residues in accordance with State and Federal laws. With the mix tank 1/4 to 1/2 full with water and the agitator running, measure the required amount of TUBRIX insecticide and add it to the tank. Then add additional water to bring your total pesticide mixture up to the desired volume for your application. Note: Always add the TUBRIX insecticide to water, never put TUBRIX insecticide into a dry tank or other mixing equipment without first adding water. See "Tank Mixing Sequence" section of the container label for tank mixing sequence. Continue to agitate the mixture throughout the application process. Use mechanical or hydraulic agitation, do not use air agitation. Highly alkaline water should be buffered so that the pH of the spray solution is in the range of neutral to slightly acidic.

#### **Injection Into Chemigation Systems**

Inject the proper amount of TUBRIX insecticide into the irrigation water flow using a positive displacement injection pump. Injection should occur at a point in the main irrigation water flow to ensure thorough mixing with the irrigation water. For continuously moving systems, inject the solution containing TUBRIX insecticide into the irrigation water line continually and uniformly throughout the irrigation cycle. Apply in no more than 0.2 inches of water per acre. For overhead sprinkler systems that are stationary, add the solution containing TUBRIX insecticide to the irrigation water line and apply no more than 0.2 inches of water per acre just before the end of the irrigation cycle.

### **Uniform Water Distribution**

The irrigation system used for application of TUBRIX insecticide must provide for uniform distribution of TUBRIX insecticide treated water. Non-uniform distribution might result in crop injury, lack of effectiveness or illegal pesticide residues in or on the crop being treated. Ensure the irrigation system is calibrated to uniformly distribute the chemigation application to the crop. Contact the equipment manufacturer, the local University Extension agent or other experts if you have questions about achieving uniform distribution of the application.

### **Equipment Calibration**

Calibrate the irrigation system and injector before applying TUBRIX insecticide. Calibrate the injection pump while the system is running using the expected irrigation rate. If you have questions about calibration, you should contact your state extension service specialists, equipment manufacturer or other experts.

### **Monitoring of Chemigation Applications**

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of a responsible person, shall shut the system down and make necessary adjustments should the need arise. Wear the personal protective equipment as defined in the PPE section of the label for applicators and other handlers when making adjustments or repairs on the chemigation system when TUBRIX insecticide is in the irrigation water.

### **Required System Safety Devices**

Do not connect any irrigation system used for pesticide applications to a public water system unless the pesticide label-prescribed safety devices are in place. Public water system means a system for the provision to the public of piped water for human consumption, if such a system has at least 15 service connections or regularly serves an average of at least 25 individuals at least 60 days out of the year.

1. The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

### **Operation**

Start the water pump and sprinkler, and let the system achieve the desired pressure and speed before starting the injector. Start the injector and calibrate the injection system according to the directions above. This procedure is necessary to deliver the desired rate per acre in a uniform manner. When the application is finished, allow the entire irrigation and injector system to be thoroughly flushed clean before stopping the system.

- End guns must be turned off during the application, if they irrigate nontarget areas or if they do not provide uniform application and coverage.
- Plug nozzles in the immediate area of control panels, chemical supply tanks and system safety devices to prevent contamination of these areas.
- Do not apply when wind speed favors drift beyond the area intended for treatment.
- Do not apply when system connections or fittings leak or when nozzles do not provide uniform distribution.
- Do not allow irrigation water to collect or run-off during chemigation.

### **Cleaning the System**

Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard clean-out procedure. Dispose of any residues in accordance with State and Federal laws. Consult your owner's manual or your local equipment dealer for cleanout procedures for your injection system.

## **SPRAY DRIFT**

### **AERIAL APPLICATIONS**

- Do not release spray at a height greater than 10 feet above the ground or vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators are required to use a medium or coarser droplet size (ASABE S572.1).
- Applicators must use 1/2 swath displacement upwind at the downwind edge of the field.
- Do not apply when wind speeds exceed 15 mph at the application site. If the wind speed is greater than 10 mph, the boom length must be 65% or less for fixed-wing aircraft and 75% or less for helicopters. Otherwise, the boom length must be 75% or less for fixed-wing aircraft and 90% or less for helicopters.
- Do not apply during temperature inversions.

### **GROUND BOOM APPLICATIONS**

- User must only apply with the release height recommended by the manufacturer, but no more than 4 feet above the ground or crop canopy.
- Applicators are required to use a medium or coarser droplet size (ASABE S572.1).
- Do not apply when wind speeds exceed 15 mph at the application site.
- Do not apply during temperature inversions.

### **AIRBLAST APPLICATIONS**

- Sprays must be directed into the canopy.
- Do not apply when wind speeds exceed 15 mph at the application site.
- User must turn off outward pointing nozzles at row ends and when spraying outer row.
- Do not apply during temperature inversions.

## **SPRAY DRIFT ADVISORIES**

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

### **IMPORTANCE OF DROPLET SIZE**

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

#### **Controlling Droplet Size – Ground Boom**

- Volume – Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure – Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle – Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

#### **Controlling Droplet Size – Aircraft**

- Adjust Nozzles – Follow nozzle manufacturer recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

#### **BOOM HEIGHT – Ground Boom**

For ground equipment, the boom should remain level with the crop and have minimal bounce.

#### **RELEASE HEIGHT – Aircraft**

Higher release heights increase the potential for spray drift.

### **SHIELDED SPRAYERS**

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

**TEMPERATURE AND HUMIDITY**

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

**TEMPERATURE INVERSIONS**

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and 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. Avoid applications during temperature inversions.

**WIND**

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS. Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

**AIR ASSISTED (AIR BLAST) FIELD CROP SPRAYERS**

Air assisted field crop sprayers carry droplets to the target via a downward directed air stream. Some may reduce the potential for drift, but if a sprayer is unsuitable for the application and/or set up improperly, high drift potential can result. It is the responsibility of the applicator to determine that a sprayer is suitable for the intended application, that it is configured properly, and that drift is not occurring.

Note: Air assisted field sprayers can affect product performance by affecting spray coverage and canopy penetration. Consult the application equipment section of this label to determine if use of an air assisted sprayer is recommended.

**CROP ROTATION**

Crops on this label and the following crops or crop groups may be planted immediately following harvest: Bean, dried, seed; Bean, succulent; Bushberries (crop subgroup 13-07B); Cucurbit vegetables (crop subgroups 9A, 9B); Fruiting vegetables (crop subgroups 8-10A, 8-10B, 8-10C); Garden beets; Grapes; Leafy green vegetables (crop subgroup 4A); Leafy petiole vegetables (crop subgroup 4B); Low growing berry (except strawberry) (crop subgroup 13-07H); Mint (peppermint & spearmint); Okra; Pome fruit (crop group 11); Small fruit vine climbing subgroup (except fuzzy kiwifruit) (crop subgroup 13-07F); Stone fruit (crop group 12); Sweet corn; Tuberous and corm vegetables (crop subgroup 1C: arracacha, arrowroot, Chinese artichoke, Jerusalem artichoke, edible canna, bitter and sweet cassava, chayote (root), chufa, dasheen, ginger, leren, potato, sweet potato, tanager, tumeric, yam bean and true yam).

Do not plant for food or feed any other crops not registered for use with indoxacarb for 30 days after last use.

**TUBRIX insecticide Rate Per Acre**

Crops	Insects	lb ai	fl oz	Acres Treated per gal of TUBRIX insecticide	Last Application (Days to Harvest)	REI
Alfalfa (Forage and Hay)	Cabbage looper (except CA) Grasshoppers	0.045 - 0.11	4.6 - 11.3	11.3 - 27.8	7 For alfalfa, harvest is defined as when the crop is cut.	12 hrs.
	Alfalfa caterpillar Alfalfa weevil larvae Beet armyworm Cabbage looper (CA only) Egyptian alfalfa weevil larvae Granulate cutworm	0.065 - 0.11	6.7 - 11.3	11.3 - 19.1		
	Potato leafhopper (except California) (suppression only) Lygus Bugs (Western U.S.)* Western yellowstriped armyworm	0.09 - 0.11	9.2 - 11.3	11.3 - 14		

**USE RESTRICTIONS FOR ALFALFA (FORAGE AND HAY):**  
 Do not apply more than 45 fl oz/A of TUBRIX insecticide or 0.44 lb ai/A of indoxacarb-containing products per calendar year.  
 Apply no more than 11.3 fl oz/A of TUBRIX insecticide or 0.11 lb ai/A of indoxacarb-containing products per cutting.  
 When TUBRIX insecticide is used on alfalfa grown for seed, the seed may not be used for sprouts or livestock feed. All seed from treated crop must be tagged, "Not for Human or Animal Use" at the processing plant.

Note: Apply lower listed rates for light to moderate infestations. Use intermediate to high rates within the listed rate range on heavier infestations or when later instar larvae exist. Use the highest listed rate for controlling severe infestations or when longer residual control is desired.

\*Suppression only.



**TUBRIX insecticide Rate Per Acre**

Crops	Insects	lb ai	fl oz	Acres Treated per gal of TUBRIX insecticide	Last Application (Days to Harvest)	REI
<b>Bean (Dried and Succulent) (except Soybean)</b> Including: Dried cultivars of bean (Lupinus) (includes grain lupin, sweet lupin, white lupin, and white sweet lupin); bean (Phaseolus) (includes field bean, kidney bean, lima bean (dry), navy bean, pinto bean, tepary bean); bean (Vigna) (includes adzuki bean, blackeyed pea, catjang, cowpea, crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean); broad bean (dry); chickpea; guar; lablab bean, lentil	Corn earworm European corn borer	0.065 - 0.11	6.7 - 11.3	11.3 - 19.1	7	12 hrs.

**USE RESTRICTIONS FOR BEAN (DRIED AND SUCCULENT) (EXCEPT SOYBEAN):**  
 Make no more than 4 applications per acre per crop.  
 Do not apply more than 45 fl oz/A of TUBRIX insecticide or 0.44 lb ai/A of indoxacarb-containing products per crop.  
 Do not apply more than 135 fl oz/A of TUBRIX insecticide or 1.32 lb ai/A of indoxacarb-containing products per calendar year.  
 The minimum interval between sprays is 7 days.  
 Note: For ground applications, make a uniform application in approximately 20-100 gal/A of water.

**TUBRIX insecticide Rate Per Acre**

Crops	Insects	lb ai	fl oz	Acres Treated per gal of TUBRIX insecticide	Last Application (Days to Harvest)	REI
<b>Corn (field)</b> Corn (grown for seed) Corn (pop)	Beet armyworm Corn earworm* Corn rootworm -(adult) European corn borer Fall armyworm Grasshoppers Japanese beetles - (adult)** Western bean cutworm Yellowstriped armyworm	0.059 - 0.11	6.0 - 11.3	11.3 - 21.3	14 Days for Grain and Stover (field, pop, and corn grown for seed)  1 Day for Forage, Fodder, Silage (field and corn grown for seed only)	12 hrs.
	Brown stink bug** Green stink bug** Southern green stink bug**	0.09 - 0.11	9.2 - 11.3	11.3 - 14		

**USE RESTRICTIONS FOR CORN (FIELD), CORN (GROWN FOR SEED) AND CORN (POP):**  
 The minimum interval between treatments is 5 days.  
 Make no more than 2 applications per acre per crop.  
 Do not apply more than 22.6 fl oz/A of TUBRIX insecticide or 0.22 lb ai/A of indoxacarb-containing products per calendar year.  
 \* Corn earworm control is only for treated foliage and silks. New foliage and new silks will not be protected with a single application.  
 \*\*Suppression only.

**TUBRIX insecticide Rate Per Acre**

Crops	Insects	lb ai	fl oz	Acres Treated per gal of TUBRIX insecticide	Last Application (Days to Harvest)	REI
Cotton	Cotton Bollworm* Tobacco Budworm*	0.11	11.3	11.3	14	12 hrs.
	Cotton Bollworm in Transgenic Bt Cotton	0.09 - 0.11	9.2 - 11.3	11.3 - 14		
	Beet Armyworm Fall Armyworm Western yellowstriped armyworm	0.09 - 0.11	9.2 - 11.3	11.3 - 14		
	Cabbage Looper Soybean Looper	0.065 - 0.09	6.7 - 9.2	14 - 19.1		
	Cotton Fleahopper** Lygus Bugs (Western U.S.)*** Tarnished Plant Bug**	0.09 - 0.11	9.2 - 11.3	11.3 - 14		

**USE RESTRICTIONS FOR COTTON:**

The minimum interval between treatments is 5 days.  
 Make no more than 4 applications per acre per crop.  
 Do not apply more than 45 fl oz/A of TUBRIX insecticide or 0.44 lb ai/A of indoxacarb-containing products per calendar year.

Note: Beet armyworm and Western yellowstriped armyworm (AZ & CA only) - TUBRIX insecticide may be applied to seedling cotton (less than 18 inches high), at rates of 6.7 - 11.3 fl oz/A in sufficient water to obtain thorough coverage (minimum of 5 gal/A).

\*Cotton Bollworm and Tobacco Budworm - For the most effective control, applications of TUBRIX insecticide should be made when the majority of the population is within the time of blackhead egg stage to egg hatch.

AL & GA only - TUBRIX insecticide may be applied at 0.09 lb ai/A (9.2 fl oz/A of product) for control of low populations of tobacco budworm and cotton bollworm on conventional cotton varieties that do not contain the transgenic Bt trait. Low populations are defined as less than 30 eggs per 100 terminals and/or less than 10 tobacco budworm/cotton bollworm larvae detected per 100 terminals, blooms, or squares. If tobacco budworm or cotton bollworm populations exceed the egg or larval threshold as described above, then increase the TUBRIX insecticide use rate to 0.11 lb ai/A (11.3 fl oz/ A of product).

\*\*Tarnished Plant Bug and Cotton Fleahopper - A single application of TUBRIX insecticide will provide control of light to moderate populations of tarnished plant bug or cotton fleahopper. Heavy populations of tarnished plant bug or cotton fleahopper may require multiple applications. For the most effective control, fields should be scouted twice per week with application timing based on locally determined economic thresholds. Consult the cooperative extension service, professional consultants or other qualified authorities to determine appropriate threshold levels for treatment in your area.

\*\*\*Suppression only.

**TUBRIX insecticide Rate Per Acre**

Crops	Insects	lb ai	fl oz	Acres Treated per gal of TUBRIX insecticide	Last Application (Days to Harvest)	REI
Peanut	Corn Earworm	0.065 - 0.11	6.7 - 11.3	11.3 - 19.1	14	12 hrs.
	Beet armyworm Fall armyworm Granulate cutworm Rednecked peanutworm (except California) Tobacco budworm	0.09 - 0.11	9.2 - 11.3	11.3 - 14		

**USE RESTRICTIONS FOR PEANUT:**

The minimum interval between treatments is 5 days. Make no more than 4 applications per acre per crop.  
 Do not apply more than 45 fl oz/A of TUBRIX insecticide or 0.44 lb ai/A of indoxacarb-containing products per calendar year.

**TUBRIX insecticide Rate Per Acre**

<b>Crops</b>	<b>Insects</b>	<b>lb ai</b>	<b>fl oz</b>	<b>Acres Treated per gal of TUBRIX insecticide</b>	<b>Last Application (Days to Harvest)</b>	<b>REI</b>
<b>Tuberous and Corm</b> Vegetables Including: Arracacha, Arrowroot, Chinese Artichoke, Jerusalem Artichoke, Edible Canna, Bitter and Sweet Cassava, Chayote (root), Chufa, Dasheen, Ginger, Leren, Potato, Sweet Potato, Tanier, Tumeric, Yam Bean, and True Yam	Cabbage looper	0.045 - 0.11	4.6 - 11.3	11.3 - 27.8	7	12 hrs.
	Colorado potato beetle* European corn borer (except California)	0.065 - 0.11	6.7 - 11.3	11.3 – 19.1		
	Potato tuberworm**	0.055 - 0.11	5.6 - 11.3	11.3 – 22.8		

**USE RESTRICTIONS FOR TUBEROUS AND CORM VEGETABLES:**

Make no more than 4 applications per acre per crop.  
 Do not apply more than 45 fl oz/A of TUBRIX insecticide or 0.44 lb ai/A of indoxacarb-containing products per crop.  
 Do not apply more than 135 fl oz/A of TUBRIX insecticide or 1.32 lb ai/A of indoxacarb-containing products per calendar year.  
 The minimum interval between sprays is 5 days.

\*Colorado potato beetle - In situations where Colorado potato beetle populations are known or suspected to be difficult to control with current insect control products, the inclusion of piperonyl butoxide (PBO), a synergist, with TUBRIX insecticide may be necessary to achieve optimum control. In these situations, a combination of TUBRIX insecticide applied at a rate of 6.7 – 11.3 fl oz/A combined with a product containing 0.5 lb ai/A of the synergist piperonyl butoxide (PBO) may be necessary to achieve the most effective control of Colorado potato beetle larvae.

Apply the low rates on small plants, small insects and light infestations of insects. Use intermediate rates on large insects and heavier infestations of insects. Use the highest specified rate for controlling severe infestations. Apply TUBRIX insecticide as a thorough coverage spray using properly calibrated air or ground spray equipment. Use sufficient water to obtain thorough and uniform coverage. For aerial application, use a minimum of 5 gal/A of water.

\*\*Potato tuberworm foliar feeding larvae – TUBRIX insecticide is most effective when applied by ground, air or overhead chemigation to vigorously growing plants through tuber bulking prior to the beginning of crop senescence. For control of potato tuberworm foliar feeding larvae, apply TUBRIX insecticide when tuberworm larvae and/or moth counts reach locally established treatment threshold populations. TUBRIX insecticide is absorbed into leaf tissue via translaminar movement and is most effective when applied to vigorously growing plants through tuber bulking (Growth Stage IV) prior to the beginning of crop senescence (Growth Stage V). Repeat applications of effective insecticides may be needed to keep tuberworm larvae populations as low as possible prior to harvest in order to reduce the risk of tuber damage. Failure to adequately control tuberworm larvae prior to crop senescence or vinekill increases the risk of tuber damage. To improve control of adults (moths), apply TUBRIX insecticide in a tank mix with a pyrethroid insecticide.

Potato tuberworm is a difficult pest to control due to several factors; eggs can be laid deep in the canopy and on the underside of the leaf, and larvae feed inside the leaves prior to moving to the soil to feed on the tubers. An integrated spray approach is essential. Foliar sprays alone (ground or air) may not provide adequate control of larvae in the mid to lower crop canopy. For best results, apply via chemigation or integrate chemigation applications into the foliar spray program. Ensure thorough coverage by using sufficient spray volumes. For ground applications use at least 10 gal/A of water. For aerial applications, use at least 5 gal/A of water. For best results with foliar sprays, add Methylated Seed Oil (MSO) as a spray adjuvant at 1 gal per 100 gal of spray volume (1% v/v). For chemigation applications, apply in 0.1 to 0.2 inches of water per acre and add MSO at 12 to 16 fl oz/A.

Do not make more than two sequential applications of TUBRIX insecticide for control of potato tuberworm before rotating to another registered insecticide having a different mode of action.

**TUBRIX insecticide Rate Per Acre**

Crops	Insects	lb ai	fl oz	Acres Treated per gal of TUBRIX insecticide	Last Application (Days to Harvest)	REI
Soybean***	Beet armyworm	0.045 - 0.11	4.6 - 11.3	11.3 - 27.8	21	12 hrs.
	Cabbage looper*					
	Corn earworm					
	Fall armyworm					
	Grasshoppers					
Green cloverworm	0.055 - 0.11	5.6 - 11.3	11.3 - 22.8			
	Tobacco budworm	0.09 - 0.11	9.2 - 11.3	11.3 - 14		
	Bean leaf beetle**					
	Brown stink bug**					
	Green stink bug**					
	Southern green stink bug**					

**USE RESTRICTIONS FOR SOYBEAN:**

The minimum interval between treatments is 5 days.

Make no more than 4 applications per acre per crop.

Do not apply more than 45 fl oz/A of TUBRIX insecticide or 0.44 lb ai/A of indoxacarb-containing products per calendar year.

Do not feed or graze livestock on treated fields.

\* Use lower rate (4.6 fl oz/A) for low to moderate populations of cabbage and soybean loopers. Use higher rates (5.6 fl oz/A to 11.3 fl oz/A) for higher populations or when crop canopy is dense.

\*\*Suppression only.

\*\*\* Not registered for use in California.

**TUBRIX insecticide Rate Per Acre**

Crops	Insects	lb ai	fl oz	Acres Treated per gal of TUBRIX insecticide	Last Application (Days to Harvest)	REI
Tobacco	Tobacco budworm	0.065 - 0.11	6.7 - 11.3	11.3 - 19.1	14	12 hrs.
	Tobacco hornworm					
	Tomato hornworm					
	Tobacco splitworm					

**USE RESTRICTIONS FOR TOBACCO:**

The minimum interval between treatments is 5 days.

Make no more than 4 applications per acre per crop.

Do not apply more than 45 fl oz/A of TUBRIX insecticide or 0.44 lb ai/A of indoxacarb-containing products per calendar year.

Note: Use intermediate to high rates within the listed rate range (9.2 to 11.3 fl oz/A) on heavier infestations or when later instar larvae are present.

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Keep this product in its tightly closed original container. Do not store in areas where temperatures are below 32 degrees F. Store in a cool, dry (preferably locked) area away from other pesticides, fertilizer, food or feed that is inaccessible to children and animals.

**PESTICIDE DISPOSAL:** Do not contaminate water, food, or feed by storage or 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 by 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 HANDLING: Refer to the Net Contents section of this product's labeling for the applicable "Nonrefillable Container" or "Refillable Container" designation.**

**Nonrefillable Rigid Plastic and Metal Containers (Capacity Equal to or Less Than 5 Gallons):** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available, or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

**Nonrefillable Rigid Plastic and Metal Containers (Capacity Greater Than 5 Gallons):** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available, or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

**Nonrefillable Rigid Plastic and Metal Containers, e.g., Intermediate Bulk Containers [IBC] (Size or Shape Too Large to be Tipped, Rolled or Turned Upside Down):** Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying the contents from this container into application equipment or mix tank and before final disposal using the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then offer for recycling if available, or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

**All Refillable Containers:** Refillable container. *Refilling Container:* Refill this container with TUBRIX insecticide containing indoxacarb only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn out threads and closure devices. If damage is found, do not use container, contact Tenkoz at the number below for instructions. Check for leaks after refilling and before transporting. If leaks are found, do not reuse or transport container, contact Tenkoz at the number below for instructions. *Disposing of Container:* Do not reuse this container for any other purpose other than refilling (see preceding). Cleaning the container before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, use the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then offer for recycling if available, or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

Do not transport if container is damaged or leaking. If the container is damaged, leaking or obsolete, or in the event of a major spill, fire or other emergency, contact CHEMTREC (Transportation and Spills) at 1-800-424-9300, day or night.

## **CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

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