

QUALI-PRO

INDOXACARB GROUP 22A INSECTICIDE

DOXEM T&O

A suspension concentrate insecticide

ACTIVE INGREDIENTS:

Indoxacarb..... 20.9%

OTHER INGREDIENTS:..... 79.1%

TOTAL:..... 100.0%

Contains 1.92 lbs. indoxacarb per gallon.



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.)

See inside booklet for First Aid, Precautionary Statements, Directions for Use and Storage and Disposal.

EPA Reg. No: 53883-533
EPA Est. No: 53883-TX-002

NET CONTENTS:

ONE GALLON



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ADAMA

Manufactured for:

Control Solutions Inc.

A member of Adama
Consumer and Professional Solutions
5903 Genoa-Red Bluff, Pasadena, TX 77507

EPA 062425

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 do so by a 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 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.

- 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.

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 or medical emergencies), you may also contact SafetyCall® International at **1-866-897-8050**, twenty-four (24) hours per day, seven (7) days per week.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyvinyl chloride (PVC) ≥ 14 mils, or Viton ≥ 14 mils
- Shoes plus socks

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

USER SAFETY RECOMMENDATIONS

Users should:

- Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. If pesticide gets on skin, wash immediately with soap and water.
- Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to 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 applications 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 visiting the treatment area.

PHYSICAL AND CHEMICAL HAZARDS

Do not mix or allow coming in contact with oxidizing agents. Hazardous chemical reaction may occur.

DIRECTIONS FOR USE

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

READ ALL DIRECTIONS COMPLETELY BEFORE USE.

USE RESTRICTIONS:

- **DO NOT** apply through any irrigation system.
- **DO NOT** apply this product in a way that will contact people or pets.
- **DO NOT** allow children or pets to enter treated areas until areas have dried.
- **DO NOT** apply more 15.0 fl. oz. DOXEM T&O (0.225 lbs. indoxacarb) per acre in a single application.
- **DO NOT** make applications at less than 7 day intervals.
- **DO NOT** exceed a total of 30.0 fl. oz. DOXEM T&O (0.45 lbs. of indoxacarb) per acre per year.
- **DO NOT** apply this product in commercial nurseries and greenhouses or on sod farms or for commercial seed production.

MANDATORY SPRAY DRIFT

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 plant canopy.
- Applicators are required to use a medium or coarser droplet size (ASABE S572.1).
- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- Do not apply during temperature inversions.

Boom-less Ground Applications:

- Applicators are required to use a medium or coarser droplet size (ASABE S572.1) for all applications.
- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- 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.

BOOM HEIGHT — Ground Boom

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

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.

Boom-less Ground Applications

- Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

Handheld Technology Applications:

- Take precautions to minimize spray drift.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, DOXEM T&O contains a Group 22A insecticide. Any insect population may contain individuals naturally resistant to DOXEM T&O and other Group 22A insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same treatment area. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance, take the following steps:

- Rotate the use of DOXEM T&O or other Group 22A insecticides with different Groups that control the same pests.
- Use tank mixtures with an insecticide from a different group that is equally effective on the target pest when such use is permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):
 - Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
 - Mixtures with components having the same IRAC mode of action classification are not recommended for IRM.
 - When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
 - Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
 - The IRM benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an IRM benefit for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticide use that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist for any additional IRM and/or IPM recommendations for specific site and pest problems in your area.
- For further information or to report suspected resistance contact your local retailer or your local university extension specialist.

TANK MIXING: DOXEM T&O may be used in tank mixtures. 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. Test compatibility of the intended tank mixture before adding DOXEM T&O to the spray or tank mix. Add proportionate amounts of each ingredient to a pint or quart jar, cap, shake, and let set 15 minutes. Formation of precipitates that do not readily redisperse indicates an incompatible mixture that cannot be used. Add other products in the following order:

1. Water-soluble bags,
2. Wettable powders,
3. Dry flowables,
4. Liquid flowables,
5. Emulsifiable concentrates, and
6. Soluble materials such as fertilizers.

If tank mixing with other products, especially soluble fertilizers containing nitrogen or boron, allow products packed in water soluble bags to dissolve first. Read and follow label directions of all products used in the tank mix before using. When tank mixing, always read all individual manufacturer's labels. In interpreting all labels for the tank mix, the most restrictive situations must apply. Tank mixtures are permitted only in those states where the tank mix partner is registered.

EQUIPMENT MAINTENANCE

Before mixing DOXEM T&O, for best management practices, be sure the application tank, hoses and application nozzles are clean and well maintained. Take precautions when cleaning equipment to avoid contaminating water, wells, water sources, or non-target plants. Dispose of rinse water in accordance with local, state, and federal regulations.

TURFGRASS APPLICATIONS

DOXEM T&O is a suspended concentrate that may be applied as a foliar or area wide application to control lepidopterous larvae and listed insect pests on turfgrass and landscaped areas in commercial or residential turfgrass, lawns, and or landscapes in or including on golf courses, sports and recreational fields, lawns and landscaping on and around residential, commercial and institutional properties residential lawns, business and office complexes, shopping complexes, multi-family residential complexes, out of play areas on golf courses, tees, roughs, greens, fairways around clubhouses, institutional buildings airports, cemeteries, parks, playgrounds, and athletic fields.

For optimum control of listed pests, applications should be timed as described for each species in the table below. Application timing can be based on historical monitoring of the site, previous records or experiences, current season adult trapping, soap flushes, or consult your State Extension Turf Specialist for specific information concerning timing in your region. Applications of DOXEM T&O of up to 15.0 fl. oz./acre (0.225 lbs of Indoxacarb/acre) may be needed if high pest pressure exists.

DOXEM T&O APPLICATION RATES

Target Pest	DOXEM T&O per acre	DOXEM T&O per 1,000 ft²	lbs. A.I. per acre	Application Instructions
Caterpillars (including armyworms, cutworms, and sod webworms)	2.5 – 5.0 fl. oz.	0.06 – 0.11 fl. oz.	0.038 – 0.075	For best results, delay watering and mowing for 24 hours after application. 5.0 fl. oz./acre rate may be required for grass taller than 1 inch or when pest pressure is severe.
European Crane Fly Larvae	7.5 – 15.0 fl. oz.	0.17 – 0.34 fl. oz.	0.113 – 0.225	Apply at 7.5 - 15.0 fl. oz./acre. The higher label rate should be used for maximum residual effectiveness.
Grasshoppers, Mole Crickets*, Annual Bluegrass Weevil Larvae*	15.0 fl. oz.	0.34 fl. oz.	0.225	Make 1 -2 applications at 15.0 fl. oz./acre at 2 - 4 week intervals. For best results, make applications during the morning when turf is damp with dew or irrigation and when adults and/or nymphs are active. For best results, irrigate with 1/8" of water immediately after application.
Ants (excluding fire, pharaoh, harvester and carpenter)	7.5 – 15.0 fl. oz.	0.17 – 0.34 fl. oz.	0.113 – 0.225	Apply at 7.5 - 15.0 fl. oz./acre. The higher labeled rate should be used for maximum residual effectiveness.

*Not registered for use in California

**ANNUAL BLUEGRASS WEEVIL CONTROL PROGRAM TARGETING
OVERWINTERED ADULTS AND FIRST GENERATION LARVAE***

Target Pest	DOXEM T&O per acre	DOXEM T&O per 1,000 ft²	lbs. A.I. per acre	Application Instructions
Annual Bluegrass Weevil Adults* (Preventative)	15.0 fl. oz.	0.34 fl. oz.	0.225	Apply 15.0 fl. oz. per acre. For best results, water in with 0.05" - 0.1" of water immediately after application.
Approximately three weeks after the preventative treatment (above) apply the supplemental treatment below:				
Annual Bluegrass Weevil Larvae*	15.0 fl. oz.	0.34 fl. oz.	0.225	Apply 15.0 fl. oz. per acre. For best results, water in with 0.05" - 0.1" of water immediately after application.

*Not registered for use in California

Turf Application Dilution Chart

Application Volume gal./1,000 ft ²	Turf Application Rates			Fl. oz. of DOXEM T&O needed to mix these finished spray volumes			
	DOXEM T&O gal./1,000 ft ²	DOXEM T&O fl. oz./acre	lbs. indoxacarb per acre	1 gallon	5 gallons	10 gallons	100 gallons
1	0.06	2.5	0.038	0.06	0.30	0.60	6
	0.11	5.0	0.075	0.11	0.55	1.1	11
	0.17	7.5	0.113	0.17	0.85	1.70	17
	0.34	15.0	0.225	0.34	1.7	3.40	34
2	0.06	2.5	0.038	0.03	0.15	0.30	3
	0.11	5.0	0.075	0.055	0.28	0.55	5.5
	0.17	7.5	0.113	0.085	0.43	0.85	8.5
	0.34	15.0	0.225	0.17	0.85	1.70	17
3	0.06	2.5	0.038	0.02	0.10	0.20	2.0
	0.11	5.0	0.075	0.037	0.19	0.37	3.7
	0.17	7.5	0.113	0.057	0.28	0.57	5.7
	0.34	15.0	0.225	0.11	0.57	1.13	11.3
4	0.06	2.5	0.038	0.015	0.08	0.15	1.50
	0.11	5.0	0.075	0.028	0.14	0.28	2.8
	0.17	7.5	0.113	0.043	0.21	0.43	4.3
	0.34	15.0	0.225	0.085	0.43	0.85	8.50
5	0.06	2.5	0.038	0.012	0.06	0.12	1.20
	0.11	5.0	0.075	0.022	0.11	0.22	2.2
	0.17	7.5	0.113	0.034	0.17	0.34	3.4
	0.34	15.0	0.225	0.068	0.34	0.68	6.8

LANDSCAPE & ORNAMENTAL PLANTS & PLANTSCAPE APPLICATIONS

DOXEM T&O is a suspended concentrate that may be applied as a full coverage broadcast) area-wide foliar spray to control lepidopterous larve, caterpillars, and bagworms, gypsy moth caterpillars, tent caterpillars, tussock moth caterpillars, yellownecked caterpillars, listed and ornamental plant pests in landscapes as listed below on landscape and plantscape ornamentals including trees, shrubs, foliage plants, and flowers, and non-bearing fruit and nut trees which will not produce a raw agricultural commodity during the season of application. Multiple applications may be required to achieve control. For best results, use higher listed rate range when pest pressure is severe.

Some plant species or cultivars may be sensitive to the spray solution. When prior experience is not available, test for potential phytotoxicity by treating a small number of plants and observing for adverse symptoms for at least one week before making broader applications. For best results, use enough water to get uniform and complete coverage.

DOXEM T&O LANDSCAPE & ORNAMENTAL PLANTS & PLANTScape APPLICATIONS

Target Pests	DOXEM T&O per 100 gallons	Lbs. A.I. per 100 gallons	Application Instructions
Leaf-feeding lepidopteran caterpillars (including bagworms, gypsy moth caterpillars, tent caterpillars including eastern tent caterpillar, tussock moth caterpillars including white marked tussock moth, gypsy or spongy moth, webworms including fall webworm and yellownecked caterpillars)	1.5 – 3.0 fl. oz.	0.023 – 0.046 lbs.	Make applications to fully cover foliage*. Repeated applications may be made if pest pressure is high but must not occur more often than once every 7 days.
European pine sawfly	3.0 – 6.1 fl. oz.	0.046 – 0.092 lbs.	Repeated applications may be made if pest pressure is high but must not occur more often than once every 7 days.
Potato leafhopper	6.1 fl. oz.	0.092 lbs.	Make applications to fully cover foliage*. Repeated applications may be made if pest pressure is high but must not occur more often than once every 7 days.

*Some plants or species of plants may be sensitive to the final dilution of DOXEM T&O. Treat a small number or section of plants and observe for negative effects and phytotoxicity for at least 7 days before treating the entire area.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in original container in secured, dry storage area. Do not store above 100°F for extended periods of time. Storage below 32°F may cause freezing. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below.

PESTICIDE DISPOSAL: Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility. Do not pour or dispose of down the drain or sewer. Call your local solid waste agency for local disposal options.

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container! Empty container by using the product according to the label directions. Triple rinse container (or equivalent) promptly after emptying.

Triple rinse as follows:

(<5 gal) Empty the remaining contents into application equipment or a mix tank and drain for 10 sec after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 sec. 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 2 more times.

Then offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by other means allowed by Federal, state or local authorities.

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

WARRANTY STATEMENT

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Control Solutions, Inc. or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Control Solutions, Inc. and Seller harmless for any claims relating to such factors.

To the extent consistent with applicable law, Control Solutions, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent consistent with applicable law, this warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or Control Solutions, Inc., and Buyer and User assume the risk of any such use. CONTROL

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