

**STOP! READ THE LEAFLET BEFORE USING THIS PRODUCT,
AND CONSULT THE PROFESSIONAL IN AGRICULTURAL SCIENCES.**

PREZA® 10 OD

**INSECTICIDE – ANTHRANILIC DIAMIDE
CYANTRANILIPROLE**

ATTENTION
ANTIDOTE: THERE IS NO SPECIFIC ANTIDOTE

DENSITY: 0.978 g/mL at 20°C

**THIS PRODUCT CAN BE LETHAL IF INGESTED OR INHALED.
IT CAN CAUSE INJURIES TO EYES AND SKIN THROUGH EXPOSURE
DO NOT STORE IN HOUSEHOLDS. KEEP OUT OF REACH OF CHILDREN,
MENTALLY DISABLED PEOPLE, DOMESTIC ANIMALS, FOOD AND MEDICINES**



AGRONOMICAL USE:

ACTION MODE: Preza® 10 OD agricultural insecticide, is an oily dispersion that can be used to control insects specified in the “Use Recommendations” section. **Preza® 10 OD** shall be mixed with water to be applied. **Preza® 10 OD** belongs to the anthranilic diamides (IRAC Group 28), a class of insecticides acting on the ryanodine receptors. **Preza® 10 OD** has local, systemic and translaminar activity, mainly acting by ingestion of treated material. **Preza® 10 OD** acts on the insect making it stop feeding, paralyzing and die in a period of 1-3 days. Applications shall be scheduled to control larvae and nymphs in their first stadia, of sucking insects and larvae, before populations reach the economic threshold for each crop per region.

APPLICATION EQUIPMENT: Before applying **Preza® 10 OD**, make sure that application equipment is working properly, that it is clean and free of pesticides residues from the previous application. Shake the product well before using it. Applications targeted to crop foliage must ensure adequate coverage, by choosing the right nozzle. The equipment must be calibrated with water to ensure right dosing. Personnel handling this product shall use personal protective equipment (PPE): rubber boots, mask, safety glasses, dispenser and applicator, impervious gloves, long-sleeve shirt and long pants. Do not eat, drink or smoke when preparing and applying this product. Avoid applications in greenhouses with air drafts.



MIXTURE PREPARATION:

Application Equipment

General:

Shake container and contents before using this product.

Before applying **Preza® 10 OD**, make sure that application equipment is clean and free of pesticides residues from the previous application.

General Recommendations to Use Pesticides

- Calibrate the application equipment far from water sources, using clean water only.
- Check the application equipment periodically.
- Make sure all users/workers measure pesticides properly.
- Mix only the amount of product required for surface to be treated.
- Do not overfill the application equipment tank.
- Do not discharge remnants on the ground or in one spot of the treated field, or in the place where the injection tank is mixed and charged.
- To open product, turn the cap until open it, turn the container and insert the tab in the upper part into the tamper band. Turn several times until the tamper band is detached. Remove it carefully from the container's mouth.
- Dilute and shake remnants, applying them accordingly to uses and doses specified on this label.
- Do not store this product near water wells.
- After triple rinsing this container, pour the process water into the injection tank.
- After finishing using this product, make sure to clean the application equipment immediately to remove **Preza® 10 OD** residues.

Mixture Preparation

Fill the application tank ¼ - ½ of its capacity with water and add the amount of **Preza® 10 OD** agricultural insecticide, specified in the “USE RECOMMENDATIONS PER CROP” section, directly into the tank. Mix thoroughly with a mechanical agitator (never use your hands or air agitators). Do not keep the mixture in the sprayer tank overnight. If acidification is required, do it after filling the tank.

Mixing Sequence

Add the different formulation types in the sequence below (unless contraindicated by any manufacturer), give some time to complete mixing and dispersion of each product.

1. Water Soluble Bags (WSB)
2. Water Soluble Granules (SG)
3. Water Dispersible Granules (WG, WDG, XP, DF)
4. Wettable Powders (WP, PH)
5. Water-based Concentrate Suspensions (SC)
6. Water Soluble Concentrates (SL)
7. Suspo-emulsions (SE)
8. **Preza® 10 OD** and other oil-based concentrate suspensions (oil dispersions - OD)
9. Emulsifiable Concentrates (CE, EC)
10. Surfactants, Oil-based Adjuvants
11. Soluble Fertilizers
12. Drift Retardants

Acidification of Application Solution: All solutions for foliar application of **Preza® 10 OD** must be pH adjusted in a range between 5.0 and 6.0. If, after adding all products to be sprayed in the tank the solution pH is above 7.5, adjust it up to 7.0 or below. If, after preparing the mixture, the pH of the solution to be sprayed is near or below 7.5, it is not required to make any adjustment or acidification. To adjust pH or acidify, add any commercial registered acidifier. Once the application solution is prepared, apply it during the working journey, do not let the prepared mixture overnight.

Application

Make foliar applications of **Preza® 10 OD** on established crops. Use the right dose, find specific instructions in the “Use Recommendations” and “Method for Foliar Application of the Product” sections.

METHOD FOR FOLIAR APPLICATION OF THE PRODUCT

Calibrate your application equipment, follow the following recommendations:
Preventing Carrying or Drifting AVOIDING CARRYING OR DRIFTING IS RESPONSIBILITY OF THE APPLICATOR. The interaction of many weather factors and the application equipment determine the carrying and drifting potential. Therefore, the applicator shall consider the following factors when making application decisions:

1. Drop Size. The most effective way to reduce the carrying or drifting potential is applying larger drops (>150-200 microns). The best strategy against carrying or drifting is applying larger drops providing enough coverage and control. Presence of susceptible species in the surroundings, the environmental conditions and pest pressure impact the applicator's judgment between drift control and good coverage.
APPLYING LARGE DROPS REDUCE THE CARRYING OR DRIFTING POTENTIAL, BUT DOES NOT PREVENT DRIFT IF APPLICATIONS ARE MADE INADEQUATELY OR IN UNFAVORABLE WEATHER CONDITIONS.
Drop Size Control General Techniques

Volume: Use high flow rate nozzles to apply the highest practical volume. Nozzles with higher flow rates produce larger drops.

Pressure: Use the lower recommended nozzle pressures. The higher the pressure, the smaller the drop size without improving foliage penetration/coverage. WHEN REQUIRING LARGER FLOW RATES, USE A NOZZLE WITH HIGHER CAPACITY. DO NOT INCREASE PRESSURE.

Nozzle type: Use nozzles designed for the specific application type. For most nozzle types, the smaller the spraying angle, the larger the drop size. Consider using low-drift nozzles.

2. Boom Height (terrestrial). Place the boom at the lowest height specified on the label to maintain homogeneous coverage. This will reduce the drop exposure to the evaporation phenomenon and wind. For terrestrial equipment, booms shall be kept at crop level and have minimum bouncing.

3. Wind. Avoid conditions of wind speed above 16 km/hr, as it increases product drifting or carrying.

4. Temperature and Humidity. When applying in hot, dry conditions, calibrate your equipment to have larger drop sizes, to reduce evaporation effects.

5. Protected Sprayers. Individual booms or nozzles can be protected to reduce the air effect; however, the applicator is responsible for confirming that protections are preventing carrying or drifting, and not interfering with a uniform product deposition.

After the working day, wash clothes and protective equipment with hot water and detergent, separately from other laundry. All users must wash their hands before eating, smoking, chew gum or tobacco, or using the toilet. Remove all clothes immediately if the product penetrates through the protective equipment, wash thoroughly, and put clean clothes on.



USE RECOMMENDATIONS:

Preza® 10 OD agricultural insecticide is recommended to be used in Guatemala, Belize, Honduras and Panama

Crop	Pest	Dose mL/Ha mL/Lot	Application Mode** (Applications and Observations Interval)
Cucumber (<i>Cucumis sativus</i>) Melon (<i>Cucumis melo</i>) Zucchini (<i>Cucurbita pepo</i>) Watermelon (<i>Citrullus lanatus</i>) Mirliton (<i>Sechium edule</i>) (1)*	American leafminer (<i>Liriomyza sativa</i>)	300 - 400 210 - 280	Make 2 applications at 14-days intervals when the first adults or first punctures on the leave appear. Application volume: 300 L of water/Ha.
	Whitefly nymphs (<i>Bemisia tabaci</i>)	600 - 800 420 - 560	Make 3 applications at 7-days intervals. Make applications when observing the first active adults or the first ovipostures. Use water volume of approximately 300 L/Ha.
	Green aphid (<i>Aphis gossypii</i>)	500 - 700 350 - 490	Make 2 applications at 14-days intervals, start applications when detecting the first active adults and/or nymphs. Application volume: 300 L of water/Ha.
	Armyworm (<i>Spodoptera exigua</i>) Cabbage looper (<i>Trichoplusia ni</i>)	200 - 400 140 - 280	Make 2 foliar applications, at 14-days intervals. Application volume: 300-400 L/Ha.
	Pickleworm (<i>Diaphania nitidalis</i>) Melonworm (<i>Diaphania hyalinata</i>)	200 - 400 140 - 280	Make 1 foliar application; if needed, make an additional application at 14-days interval. Application volume: 300-400 L/Ha.
	Tomato (<i>Lycopersicon esculentum</i>) Miltomate (<i>Physalis ixocarpa</i>) Pepper (<i>Capsicum annuum</i>) Potato (<i>Solanum tuberosum</i>) Eggplant (<i>Solanum melongena</i>) (1)*	American leafminer (<i>Liriomyza sativae</i>)	300 - 400 210 - 280
Whitefly nymphs (<i>Bemisia tabaci</i>) Green peach aphid (<i>Myzus persicae</i>)		400 - 800 280 - 560	Make 2 applications at 7-days intervals. For white fly: make applications when observing the first active nymphs. For aphids: Apply when observing the first active adults and/or nymphs. Use approximate water volume of 300 L/Ha.
Armyworm (<i>Spodoptera exigua</i>)		200 - 500 140 - 350	Make 2 applications at 14-days intervals when finding the first oviposture masses or active larvae. Application volume: 400 L of water/Ha
Nymphs of potato psyllid (<i>Bactericera cockerelli</i>)		500 - 750 350 - 525	Make 2 applications at 10-days intervals when finding the first adults and ovipostures Application volume: 350-450 L/Ha
Tomato (<i>Lycopersicon esculentum</i>) (1)*	Tomato pinworm (<i>Keiferia lycopersicella</i>)	200 - 500 140 - 350	Make 2 applications at 14-days intervals when finding the first larvae. Application volume: 300 L of water/Ha.

Coffee tree (<i>Coffea arabica</i>) (7)*	Coffee berry borer (<i>Hypothenemus hampei</i>)	1250 -1750 875-1225	Make one preventive application when infestation incidence levels reach 1%.
	Coffee leaf miner (<i>Leucoptera coffeella</i>)	600 420	Make one preventive application when infestation incidence levels in the field reach 5%.
*() Pre-harvest interval: Days that must elapse between the last application and harvest.			
Interval between the last application and harvest.			
**Do not make more than two Preza*10 OD applications per generation of the same pest insect species. Applications on the next generation of target insect pest shall be made with an effective product with action mode different to that of IRAC Group 28.			
Minimum interval between applications: 7 days.			
Do not use Preza 10 OD for ground or tray applications			

Considerations on Integrated Pest Management and Insecticide Resistance Management:

For resistance management purposes, **Preza* 10 OD** belongs to the IRAC insecticides Group 28. Repetitive and exclusive use of **Preza* 10 OD** or any other insecticide of IRAC Group 28, can lead to the development of insect resistant populations in some crops.

Preza*10 OD shall be used as a part of a Pests Integrated Management Program, which can include cultural practices, genetically improved varieties, and biological control measures, focused on preventing economic losses potentially caused by pests. Application of this product shall follow principles and practices of a Pests Integrated Control strategy, including detection methods – such as field monitoring, adequate pest identification, pest population dynamic monitoring, and application of products based on the economic thresholds of each region

Application of Preza*10 OD using “window” or “product rotation”.

This means that when residuality of **Preza* 10 OD** finishes, after making two applications, another action mode shall be used (other product) to control pests, thus reducing resistance risk. Application of **Preza*10 OD** shall be made using the “block” or “crop rotation” approach to avoid exposing consecutive pest generations to the same action mode. An “active block” of **Preza* 10 OD** is defined as the period of residual activity of a single application – or consecutive applications – of this product. A “free block” or “product rotation” of **Preza* 10 OD** is the period between two active blocks, where pests listed in this label are controlled with other effective insecticides not belonging to IRAC Group 28.

Total exposure period for all “blocks” applied across the crop cycle (from transplant to harvest), shall not exceed 50% of the crop cycle. In annual crops, a maximum of 30 days is considered the duration of a single “active block”. Depending on the crop cycle duration, one or two blocks can be included (i. e., cucurbits and brassica vegetables, one; solanaceae vegetables, two). Additionally, effective insecticides with a different action mode (non-Group 28), shall be alternated with each “active block.”

Do not make more than two consecutive applications of **Preza* 10 OD** (IRAC Group 28), in a 30 days period on the same target insect pest in one crop. Consecutive applications on the target pest shall use an effective product with different action mode to create a “free block”.

It is not recommended to use **Preza*10 OD** (IRAC Group 28), at the end of the crop cycle to control a target insect pest. If **Preza*10 OD** (IRAC Group 28) is used in the last stage of the crop cycle; the next cycle shall start the target insect pest control strategy with a product with different action mode (non-Group 28).

Monitoring

Management of any crop requires routine inspections to determine if plant growth is optimum, and the need of any cultural practices, fertilization; weed, insect and/or disease controls, and harvesting times. Pest monitoring a relevant aspect which justifies walking through the crop. There are many pest monitoring tools available, such as pheromone traps, diagnose and estimation systems – reducing time required and accurate enough to determine changes in weed, pests and disease levels. Monitor your crops to determine if insect populations require application of **Preza* 10 OD** agricultural insecticide, under economic thresholds specified for your region.

Management of resistant biotypes

Some insects develop resistance to products used repetitively to control them. When this happens, doses recommended cannot keep pest populations below economical thresholds. As resistance development cannot be forecasted, use of this product shall follow resistance management strategies established. These strategies include implementation of cultural practices and biological controls, alternation of different insecticide classes in sequential generations, and schedule applications to target the most susceptible stages of the insect life cycle.

APPLICATION INTERVAL: Applications shall be scheduled mainly to control nymphs of sucking insects and larvae in their first stadia, before populations reach the economic threshold for each crop per region.

Make applications following the wind direction.

Do not apply if having possibilities for product movement or runoff on the ground. Do not apply when weather conditions favor spray drifting from treated areas.

PRE-HARVEST INTERVAL: See table in the “Use Recommendations” section. The interval is specified under each crop, as a number in parenthesis.

RE-ENTRY INTERVAL IN TREATED AREAS: Do not enter or allow entrance of other people into treated areas within 12 hours after the product application. See “Protective Equipment” section of this label.

PHYTOTOXICITY: **Preza* 10 OD** is not phytotoxic to agricultural crops specified on this leaflet, as long as all dosing, application equipment, application season and details specified on the “Use Instruction” section of this label are followed.

COMPATIBILITY: Do not mix with products with strong alkaline reaction.

Use of Adjuvants – In some situations where coverage is difficult, for example, with dense foliage, plants with waxy leaf surfaces, or when applying with inadequate equipment, using an adjuvant can improve performance. Use an adjuvant proven and recommended that has no impact on the foliage and/or final fruit. Tank mixtures with **Preza*10 OD** and penetrating, spreading adjuvants can trigger crop response. See specific instructions per crop in table in the “Use Recommendations” section. Do not use organosiliconed adjuvants.

Tank mixture and crop tolerance – Preza* 10 OD is an oily dispersion. It has been found that crop tolerance for **Preza* 10 OD**, alone or in tank mixture with many common insecticides, fungicides and adjuvants is acceptable. However, applications shall be avoided when the crop is under stress conditions caused by moisture excess and/or lacking. Also, spraying broths too concentrate shall also be avoided, by using adequate doses.

Preza*10 OD tank mixtures with some products formulated as emulsifiable concentrates (EC) and some fungicides such as Strobilurins, Chlorotalonil, Captan, and Copper Hydroxide, which inherently have showed low safety margins, can result in unfavorable crop response of different degree. Crop varieties can have different response, being influenced by environmental conditions. It is not possible to test **Preza* 10 OD** alone or with any possible tank mixture on all varieties, and any environmental condition. Before using **Preza*10 OD** alone or with a new variety or any tank mixture in a wide area, test the mixture according to recommendations on this label, to ensure that there will be no adverse crop response. Consult an agricultural representative for more information on using **Preza*10 OD** in tank mixtures.

USE PRECAUTIONS AND WARNINGS:

STORAGE AND TRANSPORTATION: This product shall be stored and transported away from food, clothing, feed or other pesticides and fertilizers. Keep product in its original container, in a place not accessible to children and pets. Store in a cool, dry place. Do not store inside or near households. Do not contaminate water sources with application waste or product remnants. Do not contaminate lakes, rivers, ponds or creeks with waste and empty containers.

DO NOT STORE THIS PRODUCT IN HOUSEHOLDS.KEEP OUT OF REACH OF CHILDREN AND MENTALLY DISABLED PEOPLE.



USE THE FOLLOWING PROTECTIVE EQUIPMENT WHEN HANDLING THIS PRODUCT, AND WHEN PREPARING, LOADING AND APPLYING THIS PRODUCT:

- RUBBER GLOVES AND BOOTS, MASK, HAT
- EYES PROTECTION, LONG-SLEEVE SHIRT AND LONG PANTS, AND APRON

MADE OF IMPERVIOUS MATERIAL.

DO NOT EAT, SMOKE OR DRINK WHEN HANDLING AND APPLYING THIS PRODUCT. AT THE END OF THE WORKING DAY, TAKE SHOWER AND PUT ON CLEAN CLOTHING



POISONING SYMPTOMS: May cause slight irritation to eyes. Avoid contact with eyes, skin or clothe. Repeated or frequent contact with skin may cause allergic reaction in some individuals.

FIRST AID MEASURES:

If ingested: Do not induce vomit. Take the victim immediately to the doctor or the nearest health care center. Take all product information available (label or leaflet).

SKIN CONTACT: Remove all contaminated clothes, wash immediately the affected body area with plenty of water and soap, for 15-20 minutes. Take the victim to the doctor or the nearest health care center. Take all product information available (label or leaflet).

IF INHALED: Take the victim to a well-ventilated place. Take the victim immediately to the doctor or the nearest health care center. Take all product information available (label or leaflet).

EYE CONTACT: Wash eyes with water for 15-20 minutes. Take the victim immediately to the doctor or the nearest health care center. Take all product information available (label or leaflet).

NEVER GIVE ANYTHING BY MOUTH OR INDUCE VOMIT TO AN UNCONSCIOUS PERSON.

ANTIDOTE AND MEDICAL TREATMENT: There is no specific antidote.

Provide symptomatic and supportive treatment.

NATIONAL POISONING CENTERS:

NAME OF INSTITUTION	PAÍS	TELEPHONE
Toxicological Information and Advising Center (Centro de Información y Asesoría Toxicológica)	GUATEMALA	1-801-00-29832
Poisoning Center Karl Heusner Memorial Hospital (Centro de Intoxicaciones Karl Heusner Memorial Hospital)	BELIZE	(501) 231-1548 and 223-3081
School Hospital	HONDURAS	(504) 2239-2889 and 2232-2322
Drugs and Toxics Investigation and Information Center (Centro de Investigación e Información de Medicamentos y Tóxicos)	PANAMA	(507) 523-4948

ENVIRONMENTAL PROTECTION MEASURES:

TOXIC FOR BEES

This product is highly toxic for bees exposed to direct treatment in blossoming crops. Do not apply this product or allow product drifting in blossoming crops or weeds when bees are actively visiting the treatment area. Do not apply this product when bees are looking for food. When using in greenhouses, where bumblebees (*Bombus terrestris*) are used as crop pollinators, close hives after organisms' flight, the night before the treatment day, and open them again the morning after the treatment day



TOXIC FOR FISH AND CRUSTACEANS. DO NOT CONTAMINATE RIVERS, LAKES AND PONDS WITH EMPTY CONTAINERS OR PACKAGES.



RESPECT PROTECTION AREAS IN RIVERS, RAVINES AND OTHER FRAGILE AREAS.

DO NOT APPLY THIS PRODUCT IN WEATHER CONDITIONS FAVORING THE PRODUCT RUNOFF OR DRIFTING.

MAKE SURE THAT PROTECTION AREAS IN WATER COURSES ADJACENT TO THE CROP HAVE PROTECTION BARRIERS (SUCH AS VEGETATION), MINIMIZING PRODUCT DRIFTING.

MANAGEMENT OF CONTAINERS, PACKAGES, WASTE AND REMNANTS: Unused pesticide remnants shall be kept in their original container properly closed and labeled. Use all the package content; when emptying it, wash and triple-rinse it with clean water, and add this solution to the mixture prepared. Disable empty containers, perforate or crush them. If the country has an official container collection and disposition program, deliver this package to the closest collection center, or dispose it of under local regulations. In case of spill, clean any product spilled using absorbent materials, such as sand or sawdust.



USE OF PACKAGES OR CONTAINERS FOR PURPOSES DIFFERENT TO THOSE ORIGINALLY DESIGNED FOR, ENDANGERS THE HUMAN HEALTH AND THE ENVIRONMENT.

WARRANTY: The formulator and the registrant warrant that contents of this package conforms to the product physico-chemical composition specifications, and is effective for uses recommended herein, if used and handled as specified in directions and instructions provided. This product is sold with the understanding that the buyer takes all risks arising from the product use, storage and disposal which are out of the supplier's control and, which may cause any damages or loss to the buyer or any other third party on their person or property.

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