

(Container)



# Intrepid\* 240F Insecticide

GROUP	18	INSECTICIDE
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**For the control of listed lepidopteran larvae in apples**

**AGRICULTURAL**

**READ THE LABEL AND BOOKLET BEFORE USING  
KEEP OUT OF REACH OF CHILDREN**

GUARANTEE: Methoxyfenozide: ..... 240 grams per litre  
Contains 1,2-benzisothiazoline-3-one at 0.03% as a preservative  
Suspension

REGISTRATION NO. 27786 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 4 L - bulk

**Dow AgroSciences Canada Inc.**  
Suite 2100, 450 - 1 Street S.W.  
Calgary, Alberta  
T2P 5H1  
1-800-667-3852

\*Trademark of Dow AgroSciences LLC

## **PRECAUTIONS**

**KEEP OUT OF REACH OF CHILDREN**

**DO NOT APPLY BY AIR**

Avoid contact with eyes, skin or clothing. Avoid breathing spray mist.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speeds, wind direction, temperature, application equipment and sprayer settings.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at [www.croplife.ca](http://www.croplife.ca).

## **PROTECTIVE CLOTHING AND EQUIPMENT**

Wear long-sleeved shirt, long pants and chemical resistant gloves during mixing, loading, clean-up and repair. Wear long-sleeved shirt and long pants during application.

## **OPERATOR USE PRECAUTIONS**

After using this product, users should:

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

## **REENTRY AND WORKER PROTECTION**

**DO NOT** enter or allow worker entry into treated areas for 12 hours following application.

## **FIRST AID**

**Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.**

**If swallowed:** Call a poison control centre 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 centre 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 centre 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 centre or doctor for further 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 centre or doctor for treatment advice.

## **TOXICOLOGICAL INFORMATION**

No specific antidote. Employ supportive care. Treatment should be based on judgment of the physician in response to reactions of the patient.

## **AGRICULTURAL CHEMICAL**

Do not ship or store product with food, feeds, drugs or clothing.

## **ENVIRONMENTAL PRECAUTIONS**

**TOXIC** to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE.

Methoxyfenozide is **persistent and will carryover**; it is recommended that the product, Intrepid 240F Insecticide containing methoxyfenozide, not be used in areas treated with this product during the previous season.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g., sandy soil) and/or the depth to the water table is shallow.

#### **STORAGE**

Keep product in original container during storage. To prevent contamination, store this product away from food or feed.

#### **DISPOSAL/DECONTAMINATION**

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

**NOTICE TO USER:** This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

(Booklet)



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## **PRECAUTIONS**

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Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speeds, wind direction, temperature, application equipment and sprayer settings.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at [www.croplife.ca](http://www.croplife.ca).

## **PROTECTIVE CLOTHING AND EQUIPMENT**

Wear long-sleeved shirt, long pants and chemical resistant gloves during mixing, loading, clean-up and repair. Wear long-sleeved shirt and long pants during application.

## **OPERATOR USE PRECAUTIONS**

After using this product, users should:

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

## **REENTRY AND WORKER PROTECTION**

**DO NOT** enter or allow worker entry into treated areas for 12 hours following application.

## **FIRST AID**

**Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.**

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## **TOXICOLOGICAL INFORMATION**

No specific antidote. Employ supportive care. Treatment should be based on judgment of the physician in response to reactions of the patient.

## **AGRICULTURAL CHEMICAL**

Do not ship or store product with food, feeds, drugs or clothing.

## **ENVIRONMENTAL PRECAUTIONS**

**TOXIC** to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE.

Methoxyfenozide is **persistent and will carryover**; it is recommended that the product, Intrepid 240F Insecticide containing methoxyfenozide, not be used in areas treated with this product during the previous season.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g., sandy soil) and/or the depth to the water table is shallow.

#### **STORAGE**

Keep product in original container during storage. To prevent contamination, store this product away from food or feed.

#### **DISPOSAL**

##### **Recyclable Containers:**

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

##### **Returnable Containers:**

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

#### **GENERAL INFORMATION**

Intrepid 240F Insecticide is a suspension concentrate product for the control of listed lepidopteran larvae in apples. Intrepid 240F Insecticide can be applied by ground application only.

#### **MODE OF ACTION**

Intrepid 240F Insecticide belongs to the diacylhydrazine class of insecticides and mimics the action of the molting hormone of larval Lepidoptera. Upon ingestion, larvae undergo an incomplete and developmentally premature molt which is ultimately lethal. This process interrupts and rapidly halts their feeding. Feeding typically ceases within hours of ingestion although complete mortality of the larvae may take several days. Affected larvae often become lethargic and develop discoloured areas or bands between segments.

#### **GENERAL USE PRECAUTIONS**

- Do not feed apple pomace to livestock.

#### **Spray Equipment Precautions**

### Equipment Clean-Up

Thoroughly clean spray equipment after use. Cleaning should occur as soon as possible after application. All rinsate material should be collected in a suitable container and disposed of according to label directions (i.e., applying it to cropland to be planted to crops recommended on this label) or in a locally approved manner (see Disposal section). **DO NOT** contaminate irrigation/drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes. Spray equipment should be cleaned after use by the following procedure:

Drain the sprayer tank.

1. Hose down the interior surfaces of the tank. Flush tank, hoses, boom and nozzles with clean water for 10 minutes. Fill the tank with water and re-circulate for 15 minutes. Spray part of the mixture through the hoses, boom and nozzles and drain the tank.
2. Remove the nozzles and screens and clean them separately.
3. If the spray equipment will be used on crops other than those listed on this label, repeat steps 1 and 2 again and thoroughly wash the spray mixture from the outside of spray tank and the boom.

### DIRECTIONS FOR USE

READ ALL DIRECTIONS CAREFULLY BEFORE APPLYING. FAILURE TO FOLLOW LABEL INSTRUCTIONS MAY RESULT IN ERRATIC INSECT CONTROL.

**DO NOT** apply directly to aquatic habitats (such as lakes, rivers, sloughs, ponds, coulees, prairie potholes, creeks, marshes, streams, reservoirs, ditches, and wetlands) and estuarine/marine habitats.

**DO NOT** apply during periods of dead calm or when winds are gusty.

### Airblast application

**DO NOT** direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. **DO NOT** apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

**DO NOT** apply by air.

### Buffer zones

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, coulees, prairie potholes, creeks, marshes, streams, reservoirs, ditches, and wetlands) and estuarine/marine habitats.

Method of Application	Crop		Buffer Zones (metres) Required for the Protection of:			
			Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:	
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m
Airblast	Apple	Early growth stage	10	3	2	0
		Late growth stage	4	2	1	0

### Application Directions

Carefully read, understand and follow label use rates, recommendations and restrictions. Apply the amount specified in the following table with properly calibrated ground spray equipment. Prepare only the amount of spray solution required to treat the measured hectares. DO NOT exceed the application rates (litres of product/ha) listed under "DIRECTIONS FOR USE". DO NOT exceed 2 L product/ha/year. Do not apply Intrepid 240F Insecticide within 14 days of harvest.

### Ground Application:

Make applications of Intrepid 240F Insecticide by conventional ground application equipment. Thorough uniform coverage of all foliage and fruit is essential for good insect control. A minimum spray volume of 1000 litres water/ha is recommended. If adequate spray coverage of plant canopy requires less solution per hectare, adjust spray volume accordingly while using the same spray concentration (ratio of liters of product to litres of water). Do not exceed the application rates (litres of product/ha) listed under "DIRECTIONS FOR USE". DO NOT exceed 2 L product/ha/year.

### DIRECTIONS FOR USE

#### Intrepid 240F Insecticide on Apples

**DO NOT exceed the application rates (litres of product/ha) listed in the table below. DO NOT exceed 2 L product/ha/year.**

Target Pests	Application Rate L product/ha	Application Timing
Codling moth	1.0	For control of the first generation, apply before first egg hatch (80-110 degree days Celsius after BIOFIX). Monitor populations and reapply 10-14 days later if required. BIOFIX is determined to be set when a first consistent moth catch has been attained within the orchard. For the determination of degree days for codling moth, a lower and upper threshold of 10 and 31°C is used. For control of the second generation of codling moth, timing of the first application is based on first egg hatch after establishing a new BIOFIX as above. Monitor populations and reapply 10-14 days later if required.
Oriental Fruit Moth	1.0	Apply at first egg hatch of the targeted generation. Monitor populations and reapply 10-14 days later if required. If using trap catches to monitor populations, BIOFIX is determined to be set when a first consistent moth catch has been attained within the orchard. For degree day determination, a lower and upper threshold of 7.2 and 32.2°C is used.
Oblique-banded leafroller , Three-lined leafroller (over-wintering generation)	0.75	Apply during late bloom to early petal fall when larvae are actively feeding and before they roll up in rapidly growing terminals. Under conditions of high insect pressure, an application timed to target the over-wintering generation is recommended to reduce subsequent populations.

Oblique-banded leafroller, Three-lined leafroller (suppression of summer generation)	0.75	Apply at first egg hatch (110-170 DDC after BIOFIX). A second application can be made 10-14 days later if monitoring indicates this is needed. BIOFIX is set when the first moth catch is followed up by subsequent moth catches within the orchard. The lower development threshold is 6.1°C for Oblique-banded leafroller. The lower and upper development thresholds are 5 and 29°C for Three-lined leafroller.
Winter moth (suppression)	0.75	Monitor apple buds for winter moth larvae. Apply at tight cluster to full pink stage of apple development. Consult provincial guidelines for treatment thresholds and application timing.
Spotted tentiform leafminer, western tentiform leafminer (first generation only)	0.5	Apply at first egg hatch of the first generation.

### Mixing Instructions

Fill the spray tank one-third to one-half full of clean water and slowly pour Intrepid 240F Insecticide into the spray tank. Maintain agitation in the spray tank during mixing, loading and application. Triple-rinse empty container and add rinsate to the spray tank.

### Application Timing

Proper timing of application is critical with this product. If application is delayed beyond the recommended time, switch to another registered insecticide. Monitor other insect pests and apply other registered insecticides as required.

The activity of Intrepid 240F Insecticide is expressed primarily through ingestion by the target larvae. Consequently, the timing of application is dependent on the feeding behaviour of the target pest. For larvae which feed internally within fruits or shoots, application must be made prior to the time that internal feeding occurs e.g., just prior to initiation of egg hatch. For foliar or surface feeding larvae, application may be made while active feeding is occurring.

Re-application may be required to protect new flushes of foliage, rapidly expanding fruit or extended infestations. The re-application interval will vary depending on how rapidly the crop is growing, the generation time of the target pest and the duration of the infestation. Minimum reapplication interval is 10-14 days. DO NOT exceed the application rates (litres of product/ha) listed under "DIRECTIONS FOR USE". DO NOT exceed 2 L product/ha/year. Intrepid 240F Insecticide is effective against all larval instars; however, it is good practice to make applications to early instars to minimize feeding damage. For best results, begin applications when threshold levels of adults, eggs or larvae occur. Consult provincial extension personnel, provincial guidelines, or your local Dow AgroSciences representative, to determine the appropriate threshold and timing for application in your area.

**NOTE TO USER:** READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS: The DIRECTIONS FOR USE for this product for the use(s) described below were developed by persons other than Dow AgroSciences Canada Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. Dow AgroSciences Canada Inc. itself makes no representation or warranty with respect to performance (efficacy) and/or crop tolerance (phytotoxicity) claims for this product when used on the crop(s) listed below.

Accordingly, the Buyer and User assume all risks related to performance and crop tolerance arising, and agree to hold Dow AgroSciences Canada Inc. harmless from any claims based on efficacy and/or phytotoxicity in connection with the use(s) described below.

#### **DIRECTIONS FOR USE**

##### **CONTROL OF OBLIQUE-BANDED LEAFROLLER AND THREE-LINED LEAFROLLER ON THE POME FRUIT GROUP – apples, crabapples, loquats, mayhaws, Oriental pears, pears and quinces**

Make applications of Intrepid 240F Insecticide by conventional ground application equipment. Thorough uniform coverage of all foliage and fruit is essential for good insect control. A minimum spray volume of 1000 litres water/ha is recommended. If adequate spray coverage of plant canopy requires less solution per hectare, adjust spray volume accordingly while using the same spray concentration (ratio of litres of product to litres of water). Do not exceed 2 applications per year.

Overwintering generation: Apply 750 millilitres of Intrepid 240F Insecticide, in a minimum spray volume of 1000 L per hectare, during late bloom to early petal fall when larvae are actively feeding and before they roll up in the rapidly growing terminals.

Summer generation: Suppression only. Apply 750 millilitres of Intrepid 240F Insecticide, in a minimum spray volume of 1000 L per hectare, at first egg hatch (110-170 Degree Days Celsius after biofix). A second application can be made at 10-14 days after if monitoring indicated this is needed. Biofix is set when the first moth catch is followed up by subsequent moth catches within the orchard. The lower development threshold is 6.1 degrees Celsius for Oblique-banded leafroller. The lower and upper development thresholds are 5 and 29 degrees Celsius for Three-lined leafroller.

Do not harvest within 14 days of treatment. Maximum 2 applications per season.

Refer to the main Intrepid 240F Insecticide label for additional details and instructions before using.

#### **RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, please note that Intrepid 240F Insecticide contains a Group 18 insecticide. Any insect population may contain individuals naturally resistant to Intrepid 240F Insecticide and other Group 18 insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance:

- Where possible, rotate the use of Intrepid 240F Insecticide or other Group 18 insecticides with different groups that control the same pests in a field, i.e., use Intrepid 240F Insecticide in one or more applications to control a single generation of the insect pest then rotate to a product with a different mode of action for the next generation.
- Use tank mixtures with insecticides from a different group when such use is permitted.
- Insecticide use should be based on an IPM program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices. This product is harmful to certain beneficial arthropods.
- Monitor treated pest populations for resistance development.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact Dow AgroSciences Canada Inc. at 1-800-667-3852 or at [www.dowagro.ca](http://www.dowagro.ca).

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