

62719-442

9/18/2009

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Kerry Hastings, Ph. D.
Dow AgroSciences LLC
9330 Zionsville Road
Indianapolis, IN 46268-1054

SEP 18 2009

Subject: Label for Intrepid® 2F
EPA Registration No. 62719-442
Letter dated 12 September 2008

Dear Dr. Hastings:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) §3(c)(7)(A)(ii), is acceptable provided that you:

- 1. Provide two copies of the final printed master labeling. These must be submitted prior to releasing the product for shipment.
2. Fulfill outstanding data requirements by 18 September 2011, including:
- OPPTS 870.7800 - Immunotoxicity. As part of the revision of 40CFR§158, this study is now required.
- OPPTS 860.1500 Crop Field Trials are recommended
- To support a regional registration on citrus fruit grown west of the Mississippi River, additional field trials are required on oranges (2 field trials, one in each of EPA growing Regions 6 and 10), lemons (2 field trials in EPA growing Region 10), and grapefruits (1 field trial in EPA growing Region 10).
- Additional field trials are required on celery and mustard greens supporting the registered use pattern. Two celery field trials are required in EPA growing Region 3, and three mustard green field trials are required, on each in EPA growing Regions 2, 3, and 10.
- A frog embryo teratogenesis study
- Monitoring of surface water and sediment in a representative sample of high use areas in proximity to surface water.
- A honeybee brood study
3. Revise the supplemental labels for dried peas and beans, except soybean (subgroup 6C) to prohibit the use of adjuvants.

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4. Add the following language prohibiting the application of Intrepid 2F by aerial ULV to the dried peas and beans, except soybeans (group 6C) and popcorn supplemental labels:

“Intrepid 2F may not be applied to [crop name] by aerial ULV.”

5. Add the following mitigation language to the supplemental labels for popcorn and dry peas:

Buffer Zone for Ground Application (ground boom, overhead chemigation, or airblast)

“Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, ponds, estuaries, and commercial fish ponds).”

Buffer Zone for Aerial Application

“Do not apply within 150 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, ponds, estuaries, and commercial fish ponds).”

SPRAY DRIFT REQUIREMENTS

Wind Direction and Speed

“Only apply this product if the wind direction favors on-target deposition.”

“Do not apply when the wind velocity exceeds 10 mph.”

Temperature Inversion

“Do not make aerial or ground applications into temperature inversions.”

“Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.”

Droplet Size

“Use only Medium or coarser spray nozzles (for ground and non-ULV aerial application) according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.”

Additional Requirements for Ground Applications

“Wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application.”

“For ground boom applications, apply using a nozzle height of no more than 4 feet above the ground or crop canopy.”

“For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows, to minimize spray loss over the top in orchard applications, spray must be directed into the canopy.”

Additional Requirements for Aerial Applications

“The spray boom should be mounted on the aircraft as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of the wing span or 80% rotor diameter.”

“Flight speed and nozzle orientation must be considered in determining droplet size.”

“Spray must be released at the lowest height consistent with pest control and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.”

“When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.”

If these conditions are not met, the registration will be subject to cancellation in accordance with FIFRA §6 and/or may be found to be misbranded and referred to OECA for enforcement. Your release for shipment of the product constitutes acceptance of these conditions

A stamped copy is enclosed for your records. If you have any questions, you may contact Mark E. Suarez, at (703) 305-0120.

Sincerely,



Richard J. Gebken
Product Manager 10
Insecticide Branch
Registration Division (7505C)

Enclosure

- 062719-00442 S837199
- Stamped Dry Pea Supplemental Label
- Stamped Popcorn Supplemental Label
- Stamped Pomegranate Supplemental Label
- Stamped Citrus Fruit Supplemental Label

Supplemental Labeling



Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 62719-442

Dow AgroSciences LLC 9330 Zionsville Road Indianapolis, IN 46268-1054 USA

Intrepid® 2F EPA Reg. No. 62719-442

Control of Lepidoptera Larvae Infesting Citrus Fruits¹ (For Use and Distribution in States West of the Mississippi River Only)

ATTENTION

- It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
- This labeling must be in the possession of the user at the time of application.
- Read the label affixed to the container for Intrepid® 2F insecticide before applying. Carefully follow all precautionary statements and applicable use directions.
- Use of Intrepid 2F according to this supplemental labeling is subject to all use precautions and limitations imposed by the label affixed to the container for Intrepid 2F.

Directions for Use

¹Including, but not limited to: calamondin, chironja, citrus citron, grapefruit, kumquat, lemon, lime, mandarin, orange, pummelo, satsuma mandarin, sour orange, sweet orange, tangelo, tangerine, tangor, other cultivars and/or hybrids of these

Refer to product label for General Use Precautions, Mixing and Application instructions.

Pests, Application Rates, Application Timing and Restrictions:

Pests	Application Rate (fl oz/acre)	Application Timing	Restrictions
citrus leafminer citrus peelminer cutworms leafrollers	8 - 16 (0.12 - 0.25 lb ai/acre)	Apply at the first observation of the pests on the flushing leaves. Reapply no sooner than 14-day intervals.	<ul style="list-style-type: none"> • Do not apply more than 16 fl oz per acre per application or 64 fl oz of Intrepid 2F (1 lb ai) per acre per season. • Pre-harvest Interval: Do not harvest within 1 day of application.

Ground Application: Apply a minimum of 50 gallons per acre by conventional ground equipment to trellised trees or trees 10 feet tall or less. For trees greater than 10 feet tall, use a minimum of 100 gallons per acre. Equipment and spray volume should be calibrated to assure uniform coverage of infested parts of the crop.

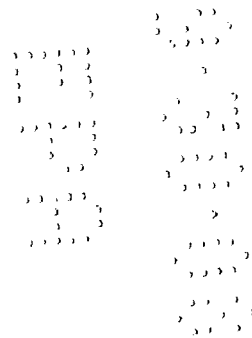
Spray Adjuvants: The addition of agricultural adjuvants to Intrepid 2F sprays will improve initial spray deposits, redistribution and weatherability. Select adjuvants that are recommended and registered for your specific use pattern and follow their use directions. Always add adjuvants last in the mixing process.

Resistance Management: To reduce the potential for resistance development in target pest species, do not make more than 3 consecutive applications of Intrepid 2F. If additional treatments are required after 2 consecutive applications of Intrepid 2F, rotate to another class of effective insecticide of alternate modes of action for at least 2 applications and utilize Integrated Pest Management practices such as routine

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monitoring, treatment thresholds to time applications, and cultural and biological controls whenever possible. Consult your Dow AgroSciences representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area.

Note: This product is toxic to aquatic invertebrates. Refer to the Environmental Hazards section of the product label attached to the product container for required protective measures.



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R846-032

EPA accepted ___/___/___

Initial printing.

with COMMENTS (0011)
 In EPA Letter Dated:

SEP 18 2009

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 62719-442

Supplemental Labeling



Dow AgroSciences LLC 9330 Zionsville Road Indianapolis, IN 46268-1054 USA

Intrepid® 2F EPA Reg. No. 62719-442

Control of Lepidoptera Larvae Infesting Pomegranate (Not for Use in New York State)

ATTENTION

- It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
- This labeling must be in the possession of the user at the time of application.
- Read the label affixed to the container for Intrepid® 2F insecticide before applying. Carefully follow all precautionary statements and applicable use directions.
- Use of Intrepid 2F according to this supplemental labeling is subject to all use precautions and limitations imposed by the label affixed to the container for Intrepid 2F.

Directions for Use

Refer to product label for General Use Precautions, Mixing and Application instructions.

Target Pests	Intrepid 2F fl oz/acre	Application Timing	Restrictions
filbert worm light brown apple moth navel orangeworm obliquebanded leafroller omnivorous leafroller	8 - 16 (0.12 - 0.25 lb ai/acre)	Apply when larvae are feeding. Most effective crop protection results from application made at the initiation of egg hatch. The higher rates in the rate range and additional applications at 10- to 18-day intervals may be required for heavy infestations, sustained moth flight, situations in which it is difficult to achieve thorough coverage, and for quicker knockdown of larvae.	<ul style="list-style-type: none"> • Do not apply more than 16 fl oz per acre per application or 64 fl oz of Intrepid 2F (1 lb ai) per acre per season. • Pre-harvest Interval: Do not apply within 7 days of harvest.
redhumped caterpillar		Apply at initiation of egg hatch or at the first sign of larval infestation. Reapply in 10 to 14 days to ensure complete coverage of rapidly expanding fruits or foliage.	

Ground Application: Apply a minimum of 50 gallons per acre by conventional ground equipment to trellised trees or trees 10 feet tall or less. For trees greater than 10 feet tall, use a minimum of 100 gallons per acre. Equipment and spray volume should be calibrated to assure uniform coverage of infested parts of the crop.

Aerial Application: Apply a minimum of 20 gallons per acre. This method should not be used if the size of the tree or density of the foliage prohibits thorough, uniform coverage of the entire tree canopy.

7 of 11

Note: This product is toxic to aquatic invertebrates. Refer to the Environmental Hazards section of the product label attached to the product container for required protective measures.

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SEP 18 2009

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 62719-442

Supplemental Labeling



Dow AgroSciences LLC 9330 Zionsville Road Indianapolis, IN 46268-1054 USA

Intrepid® 2F

EPA Reg. No. 62719-442

Control or Suppression of Lepidoptera Larvae Infesting Dry Peas¹

ATTENTION

- It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
- This labeling must be in the possession of the user at the time of application.
- Read the label affixed to the container for Intrepid® 2F insecticide before applying. Carefully follow all precautionary statements and applicable use directions.
- Use of Intrepid 2F according to this supplemental labeling is subject to all use precautions and limitations imposed by the label affixed to the container for Intrepid 2F.

Directions for Use

¹Dry peas including *Cajanus* spp. (pigeon peas); *Cicer* spp. (chick peas, garbanzo beans); *Lens* spp. (lentils); *Pisum* spp. (dwarf peas, edible pod peas, English peas, field peas, garden peas, green peas)

Refer to product label for General Use Precautions, Mixing and Application instructions.

Pests, Application Rates, Application Timing and Restrictions:

Pests	Application Rate (fl oz/acre)	Application Timing	Restrictions
alfalfa looper beet armyworm cabbage looper European corn borer fall armyworm southern armyworm tomato hornworm	4 - 8 (0.06 - 0.12 lb ai/acre)	For early season applications only to young crops and small plants. Apply at first sign of feeding damage or when infestations reach threshold levels as defined by a cooperative extension service or other qualified professional authorities.	<ul style="list-style-type: none"> • Do not apply more than 64 fl oz of Intrepid 2F (1 lb ai) per acre per season. • Do not make more than 4 applications per acre per season. • Re-treatment Interval: 7 days
true armyworm yellowstriped armyworm western yellowstriped armyworm	8 - 16 (0.12 - 0.25 lb ai/acre)	For mid- to late-season applications, heavier infestations, and under conditions in which thorough coverage is more difficult. For heavy infestations, continuous moth flights, and/or egg masses and larvae in all stages of development, a 7- to 14-day re-treatment interval is recommended to protect new growth until moth flights and/or larval infestations subside.	<ul style="list-style-type: none"> • Pre-harvest Interval: Do not harvest within 7 days of application. • Do not use adjuvants in the tank mix when applying this product to dry peas. • See Rotational Crop Restrictions below.

corn earworm (suppression only)	10 – 16 (0.16 – 0.25 lb ai/acre)	Apply at first sign of feeding damage or when infestations reach threshold levels as defined by a cooperative extension service or other qualified professional authorities. May provide partial control when infestations reach high levels.	
tomato pinworm (suppression only)		Leafmining and infestations of leafmining phase are reduced when applied at initiation of egg laying.	

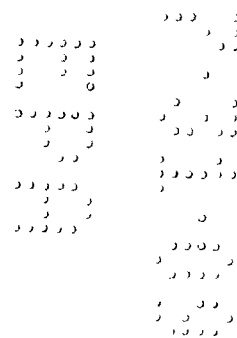
Ground Application: Apply a minimum of 10 gallons per acre by conventional ground equipment to young crop or small plants. Apply a minimum of 20 gallons per acre to densely foliated or difficult to cover crops to ensure thorough coverage. Equipment and spray volume should be calibrated to assure uniform coverage of infested parts of the crop.

Aerial Application: Apply a minimum of 10 gallons per acre. Use of higher carrier volume is recommended for heavy infestations and in situations where thorough coverage is difficult to achieve.

Rotational Crop Restrictions: Crops with registered uses may be replanted at any time. All other crops grown for food or feed may be replanted after 7 days.

Resistance Management: To reduce the potential for resistance development in target pest species, do not make more than 2 consecutive applications of Intrepid 2F. If additional treatments are required after 2 consecutive applications of Intrepid 2F, rotate to another class of effective insecticides for at least 1 application and utilize Integrated Pest Management practices such as routine monitoring, treatment thresholds to time applications, and cultural and biological controls whenever possible. Consult your Dow AgroSciences representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area.

Note: This product is toxic to aquatic invertebrates. Refer to the Environmental Hazards section of the product label attached to the product container for required protective measures.



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SEP 18 2009

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 62719-442

Supplemental Labeling



Dow AgroSciences LLC 9330 Zionsville Road Indianapolis, IN 46268-1054 USA

Intrepid® 2F

EPA Reg. No. 62719-442

Control of Lepidoptera Larvae Infesting Popcorn (Not for Use in New York State)

ATTENTION

- It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
- This labeling must be in the possession of the user at the time of application.
- Read the label affixed to the container for Intrepid® 2F insecticide before applying. Carefully follow all precautionary statements and applicable use directions.
- Use of Intrepid 2F according to this supplemental labeling is subject to all use precautions and limitations imposed by the label affixed to the container for Intrepid 2F.

Directions for Use

Refer to product label for General Use Precautions, Mixing and Application instructions.

Target Pests	Intrepid 2F fl oz/acre	Application Timing	Restrictions
European corn borer southwestern corn borer	4 – 8 (0.06 – 0.12 lb ai/acre)	Apply at first sign of egg hatch or when infestations reach threshold levels as defined by a cooperative extension service or other qualified professional authorities. Direct application at the whorl for early season (first generation) infestations. Apply as broadcast or multi-nozzle over the row application to mid- and late-season infestations.	<ul style="list-style-type: none"> • Do not apply more than 8 fl oz per acre per application or 64 fl oz of Intrepid 2F (1 lb ai) per acre per season. • Pre-harvest Interval: Do not harvest within 21 days of application to grain and stover. There is no pre-harvest interval for popcorn forage. • See Rotational Crop Restrictions below.
true armyworm western bean cutworm		Apply at first sign of egg hatch (field corn), feeding damage (sweet corn), or when infestations reach threshold levels as defined by a cooperative extension service or other qualified professional authorities. Under heavy infestations, continuous moth flights, or rapid crop growth and development, reapply at 5- to 10-day re-treatment interval.	

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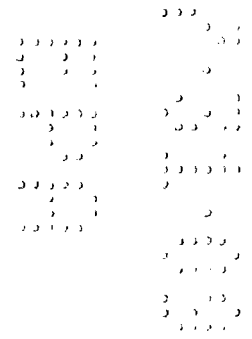
Ground Application: Apply a minimum of 10 gallons per acre by conventional ground equipment to young crop or small plants. Apply a minimum of 20 gallons per acre after initiation of tasseling. Equipment and spray volume should be calibrated to assure uniform coverage of infested parts of the crop.

Aerial Application: Apply a minimum of 10 gallons per acre.

Rotational Crop Restrictions: Crops with registered uses may be replanted at any time. All other crops grown for food or feed may be replanted after 7 days.

Resistance Management: To reduce the potential for resistance development in target pest species, do not make more than 2 consecutive applications of Intrepid 2F. If additional treatments are required after 2 consecutive applications of Intrepid 2F, rotate to another class of effective insecticides for at least 1 application and utilize Integrated Pest Management practices such as routine monitoring, treatment thresholds to time applications, and cultural and biological controls whenever possible. Consult your Dow AgroSciences representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area.

Note: This product is toxic to aquatic invertebrates. Refer to the Environmental Hazards section of the product label attached to the product container for required protective measures.



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