



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

October 7, 2019

Tammy Zimmer
Bayer CropScience LP
800 N. Lindbergh Blvd.
St. Louis, MO 63167

Subject: Notification per PRN 98-10 – Update address and amend typographic errors
Product Name: Decis 100 EC Insecticide
EPA Registration Number: 264-1199
Application Date: August 29, 2019
Decision Number: 555070

Dear Ms. Zimmer:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped “Notification” and will be placed in our records.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If you have any questions, you may contact please contact Vanessa Emerson at 703-347-0360 or by email at emerson.vanessa@epa.gov.

Sincerely,

A handwritten signature in black ink that reads "J. Herrick".

Jacquelyn Herrick, Product Manager 03
Invertebrate & Vertebrate Branch 1
Registration Division (7505P)
Office of Pesticide Programs

RESTRICTED USE PESTICIDE

DUE TO ACUTE TOXICITY AND TOXICITY TO FISH AND AQUATIC ORGANISMS
For retail sale to and use only by certified applicators or persons under their supervision
And only for those uses covered by the certified applicator's certification.

Deltamethrin	Group	3	Insecticide
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DECIS® 100 EC Insecticide

For: Insect Control on Bulb Vegetables, Cucurbit Vegetables, Fruiting Vegetables, Root Vegetables (except Sugarbeets), Tuberos and Corm Vegetables, Pome Fruits, Tree Nuts, Canola and Rapeseed, Cotton, Field Corn, Popcorn, Sweet Corn, Soybeans, Sorghum and Sunflowers.

ACTIVE INGREDIENT(S):	
Deltamethrin:	10.50%
OTHER INGREDIENTS*:	89.50%
TOTAL:	100.00%

Contains 0.83 pounds active ingredient per U.S. gallon (100 grams Ai/liter)

*Contains petroleum distillates

EPA Reg. No. 264-1199

EPA Est. _____



KEEP OUT OF REACH OF CHILDREN
DANGER – POISON
PELIGRO - VENENO



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.)

For MEDICAL and TRANSPORTATION Emergencies ONLY Call 24 Hours a Day 1-800-334-7577
For PRODUCT USE Information Call 1-866-99BAYER (1-866-992-2937)

Please refer to [back panel] [booklet] for additional precautionary statements and directions for use. [Note to reviewer: Location of additional precautionary statements and directions for use will vary between those listed, depending on container type/size.]

Net Contents:

NOTIFICATION

264-1199

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

10/07/2019

PRODUCED FOR



Bayer CropScience LP
800 N. Lindbergh Blvd.
St. Louis, MO 63167
1-866-99BAYER (1-866-992-2937)

FIRST AID

If in eyes:	<ul style="list-style-type: none">• 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 eyes.• Call a poison control center or doctor for treatment advice.
If Swallowed:	<ul style="list-style-type: none">• Immediately call a poison control center or doctor for treatment advice.• Do not induce vomiting unless told to do so by a poison control center or doctor.• Do not give any liquid to the person.• Do not give anything by mouth to an unconscious person.
If on Skin or clothing:	<ul style="list-style-type: none">• 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:	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.• Call a poison control center or doctor for further treatment advice.
In case of emergency, call the toll-free Bayer CropScience Emergency Response telephone number: 1-800-334-7577. Have a product container or label with you when calling a poison control center or doctor, or going for treatment.	
Note to Physician: Contains petroleum distillate. Vomiting may cause aspiration pneumonia. Probable mucosal damage may contraindicate the use of gastric lavage.	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER - POISON

- Corrosive. Causes irreversible eye damage. Do not get in eyes or on clothing. Wear appropriate protective eyewear.
- Avoid contact with skin, eyes, or clothing.
- Harmful if absorbed through skin.
- Harmful if swallowed.
- Wear face shield or goggles.
- Harmful if inhaled. Avoid breathing dust, vapor, or spray mist.
- Wash thoroughly with soap and water after handling and before eating, drinking, using tobacco or using the toilet.
- Wear long-sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves (such as Natural Rubber).
- Remove contaminated clothing and wash before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber, or butyl rubber
- Shoes plus socks
- Protective eyewear

USER SAFETY RECOMMENDATIONS

- Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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.

ENGINEERING CONTROLS

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.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to 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. Drift and runoff may be hazardous to aquatic organisms in areas near the application site. Do not contaminate water by cleaning of equipment or disposal of equipment wash waters.

This pesticide is highly toxic to bees exposed to direct treatment. Do not apply it or allow it to drift to crops or weeds on which bees are foraging.

Notify State and/or Federal authorities and Bayer CropScience immediately if you observe any adverse environmental effects due to the use of DECIS 100 EC Insecticide.

NOTICE: It is a Federal offense to use any pesticide in a manner that results in the death of a member of an endangered species.

PHYSICAL OR CHEMICAL HAZARDS

Combustible. Do not use or store near heat or open flame.

CONDITIONS OF SALE AND LIMITATIONS OF WARRANTY AND LIABILITY

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Bayer CropScience. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Bayer CropScience is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

LIMITATIONS OF LIABILITY: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT BAYER CROPSCIENCE'S ELECTION, THE REPLACEMENT OF PRODUCT.

DIRECTIONS FOR USE

RESTRICTED USE PESTICIDE

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
Read the entire label before using this product.**

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. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Shake well before using.

AGRICULTURAL USE REQUIREMENTS

Use this product 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, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, 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**.

PPE required 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), is:

- Coveralls
- Waterproof or chemical-resistant gloves
- Shoes plus socks
- Protective eyewear

USE RESTRICTIONS

- Do not apply DECIS 100 EC Insecticide by aerial application in New York State.

Refer to the specific use directions and restrictions in each Crop, Crop Group or Crop Subgroup table.

APPLICATION INSTRUCTIONS

- Dilute DECIS 100 EC in water according to the directions shown below and apply to the target crops at the rates listed. Uniform coverage is essential. Consult your local or state agricultural authorities regarding economic thresholds and timing of application for specific pests. Under heavy pest populations, use of the highest labeled rate is recommended.
- DECIS 100 EC may be applied before, during, or after planting. Use the higher labeled rate for soil incorporated applications.

CHEMIGATION

Sprinkler Irrigation Application

Apply DECIS 100 EC Insecticide at rates and timing described elsewhere in this label. As local recommendations differ, consult your local State Extension Service or other local experts for recommendations on adjuvant or diluent types, rates, and mixing instructions. These recommendations should be proven, through university and extension field trials, to be effective with DECIS 100 EC Insecticide applied by chemigation.

Check the irrigation system to ensure uniform application of water to all areas. Thorough coverage of foliage is required for good control. Good agitation in the pesticide supply tank should be maintained prior to and during the entire application period.

Apply by injecting the recommended rate of DECIS 100 EC Insecticide into the irrigation system using a metering device that will introduce a constant flow and by distributing the product to the target area in 0.1 to 0.2 inches per acre of irrigation water. In general, use the least amount of water required for proper distribution and coverage. It is recommended that the product be injected into the main irrigation line ahead of a right angle turn in the line to ensure adequate dispersion or mixing in the irrigation water. Once the application is completed, flush the entire irrigation and injection system with clean water before stopping the system.

In addition to the above recommendations, if application is being made during a normal irrigation set of a stationary sprinkler, the recommended rate of DECIS 100 EC Insecticide for the area covered should be injected into the system only during the end of the irrigation set for sufficient time to provide adequate coverage and product distribution.

NOTE: Bayer CropScience does not recommend connecting chemigation systems to a public water system. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Use Precautions

Apply this product only through sprinkler (including center pivot, lateral move, end tow, side [wheel] roll, traveler, big gun, solid set, or hand move) irrigation system(s). Do not apply this product through any other type of irrigation system.

- Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from no uniform distribution of treated water.
- If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts.
- Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
- A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
- 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.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 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.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 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.
- 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.
- Do not apply when wind speed favors drift beyond the area intended for treatment.

Supplemental Spray

All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers.

- For cotton, do not make more than a total of 6 synthetic pyrethroid applications (of one product or combination of products) to a crop in one growing season. Synthetic pyrethroid products include AMBUSH®, AMMO® 2.5EC, ASANA® XL, BAYTHROID 2, CAPTURE® 2EC, CYMBUSH, DANITOL 2.4EC, DECIS, FURY™ 1.5EC, KARATE®, MUSTANG, POUNCE® 3.2EC, SCOUT X-TRA®, and SynerGin™ 2.

Buffer Zone Requirements

Observe the following precautions when spraying in the vicinity of aquatic areas such as lakes; reservoirs; rivers; permanent streams, marshes or natural ponds; estuaries and commercial fish farm ponds.

Vegetative Buffer Strip

Construct and maintain a minimum 10-foot-wide vegetative filter strip 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).

Only apply products containing Deltamethrin onto fields where a maintained vegetative buffer strip of at least 10 feet exists between the field and down gradient aquatic habitat.

For guidance, refer to the following publication for information on constructing and maintaining effective buffers: Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. USDA, NRCS. 2000. Fort Worth, Texas. 2 1 pp.

<http://www.in.nrcs.usda.gov/technical/agronomy/newconbuf/pdf>.

Ground Application (ground boom, overhead chemigation, or air blast)

Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes reservoirs, rivers, permanent streams; marshes or natural ponds, estuaries, and commercial fishponds).

ULV Aerial Application

Do not apply within 450 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams; marshes or natural ponds, estuaries, and commercial fishponds).

Non-ULV Aerial Application

Do not apply within 150 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams; marshes or natural ponds, estuaries, and commercial fishponds).

SPRAY DRIFT MANAGEMENT

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.

Wind Speed

Only apply this product if the wind direction favors on-target deposition. Do not apply when the wind velocity exceeds 15 mph.

Temperature Inversions

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.

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 air blast 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.
- In New York State, this product may not be applied within 100 feet of a coastal marsh or stream that drains directly into a coastal marsh.

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 wingspan 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 crosswind, 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.
- Do not apply DECIS 100 EC Insecticide by aerial application in New York State.

COMPATIBILITY TESTING AND TANK MIX PARTNERS

DECIS 100 EC Insecticide may be applied in tank mixtures with other pesticides approved for use on the crops specified. Observe all restrictions and precautions, which appear on the labels of those products. If compatibility with another product is not known perform a small-scale test to determine compatibility. When testing combination sprays for compatibility, first add DECIS 100 EC Insecticide to at least an equal amount of water in a clear container, mix thoroughly, and then add combination products to the mixture. Curdling, precipitation, greasing, layer formation, or increased viscosity are symptoms of incompatibility. If any of these symptoms appear, do not use the combination.

DECIS 100 EC Insecticide may also be applied in combination with additive products such as adjuvants, spreader stickers, penetrating agents, and drift control agents. Observe all restrictions and precautions, which appear on the labels of those products. If compatibility with such a product is not known, a small-scale test as described above should be performed.

RATE CONVERSION CHART

Contains 0.83 pounds active ingredient per U.S. gallon (100 grams Ai/liter)

Fluid ounces/Acre	Pounds ai/Acre	Acres Per Gallon
1.2	0.009	107
1.5	0.012	85
1.8	0.014	71
2.1	0.016	61
2.4	0.019	53
2.7	0.021	47
3.0	0.023	43
3.3	0.026	39
3.6	0.028	36
3.9	0.030	33
4.2	0.033	30

RATE CONVERSION CHART FOR HIGH VOLUME APPLICATIONS

Desired fluid ounces/Acre	Fluid Ounces Per 100 Gal Of Water When Using Spray Volume Of:						
	25 GPA	50 GPA	100 GPA	150 GPA	200 GPA	250 GPA	500 GPA
1.2	4.8	2.4	1.2	0.8	0.6	0.48	0.2
1.5	6.0	3	1.5	1	0.75	0.6	0.3
1.8	7.2	3.6	1.8	1.2	0.9	0.72	0.4
2.1	8.4	4.2	2.1	1.4	1.05	0.84	0.4
2.4	9.6	4.8	2.4	1.6	1.2	0.96	0.5
2.7	10.8	5.4	2.7	1.8	1.35	1.08	0.5
3.0	12.0	6.0	3.0	2.0	1.5	1.2	0.6
3.3	13.2	6.6	3.3	2.2	1.65	1.32	0.7
3.6	14.4	7.2	3.6	2.4	1.8	1.44	0.7
3.9	15.6	7.8	3.9	2.6	1.95	1.56	0.8
4.2	16.8	8.4	4.2	2.8	2.1	1.68	0.8

INSECTICIDE RESISTANCE MANAGEMENT (IRM) RECOMMENDATIONS

For resistance management, DECIS 100 EC Insecticide contains a Group 3 insecticide. Any insect population may contain individuals naturally resistant to DECIS 100 EC Insecticide and other Group 3 insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance, take one or more of the following steps:

- Rotate the use of DECIS 100 EC Insecticide or other Group 3 insecticides within a growing season, or among growing seasons, with different groups that control the same pests.
- Use tank mixtures with insecticides from a different group that are 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 insect resistance management.
 - 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 insect resistance management 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 insect resistance management benefit only 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 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 Bayer CropScience at 1-866-99BAYER (1-866-992-2937).

SPECIFIC CROP DIRECTIONS

BULB VEGETABLES

Crops of Crop Group 3 Including: Garlic, bulb; Garlic, great headed; Leek; Onion, dry bulb and green; Onion, Welsh; Shallot

Pests Controlled	Product Rate (fl oz/A)	Product Rate (lbs ai/A)
Cutworms	1.5 - 2.3	0.012 - 0.018
Stink bugs Thrips	2.3 - 3.6	0.018 - 0.028

Application Restrictions:
 Pre-Harvest Interval (PHI): **1 day(s)**
 Minimum interval between applications: **5 day(s)**
 Minimum application volumes: **5 gallons/Acre** (Ground); **2 gallons/Acre** (Aerial)
 Maximum DECIS 100 EC Insecticide allowed per season: **14.4 fluid ounces/Acre** (0.112 lb Ai/Acre)

CANOLA; CRAMBE; RAPESEED

Pests Controlled	Product Rate (fl oz/A)	Product Rate (lbs ai/A)
Beet Armyworm ¹ Bertha Armyworm Cabbage seed pod weevil Clover Cutworm Diamondback Moth Flea Beetle Grasshopper Lygus bug (plant bug)	1.2	0.009

Application Notes:
¹ For best control apply to 1st and 2nd instar larvae.

Application Restrictions:
 Pre-Harvest Interval (PHI): **7 day(s)**
 Minimum interval between applications: **7 day(s)**
 Minimum application volumes: **5 gallons/Acre** (Ground); **2 gallons/Acre** (Aerial)
 Maximum DECIS 100 EC Insecticide allowed per season: **2.3 fluid ounces/Acre** (0.018 lb Ai/Acre)

CORN (Field and Pop)		
Pests Controlled	Product Rate (fl oz/A)	Product Rate (lbs ai/A)
Cutworms Flea beetles Grasshoppers	1.5 - 2.3	0.012 - 0.018
Armyworm (all species) ¹ Chinch bugs Click beetle Corn earworm ¹ Corn rootworm (adult) European corn borer ¹ Japanese beetle (adult) June beetle (adult) Masked chafer (adult) Southern corn borer ¹ Southwestern corn borer ¹ Stalk borer ¹ Stink bugs Webworm	2.3 - 2.9	0.018 - 0.022
Pests Suppressed	Product Rate (fl oz/A)	Product Rate (lbs ai/A)
Aphids	2.3 - 2.9	0.018 - 0.022
Application Notes: ¹ Apply to early instar larvae prior to boring into the ear or stalk.		
Application Restrictions: Pre-Harvest Interval (PHI): 21 day(s) Minimum interval between applications: 21 day(s) for harvest of field corn for grain or fodder. Minimum interval between applications: 12 day(s) for cutting or grazing field corn for forage. Minimum application volumes: 5 gallons/Acre (Ground); 2 gallons/Acre (Aerial) Maximum DECIS 100 EC Insecticide allowed per season: 12.2 fluid ounces/Acre (0.095 lb Ai/Acre) Do not make more than 5 applications of DECIS 100 EC Insecticide.		

CORN (Sweet)		
Pests Controlled	Product Rate (fl oz/A)	Product Rate (lbs ai/A)
Cutworms Flea beetles Grasshoppers	1.5 - 2.3	0.012 - 0.018
Armyworm (all species) ¹ Chinch bugs Click beetle Corn earworm ¹ Corn rootworm (adult) European corn borer ¹ Japanese beetle (adult) June beetle (adult) Masked chafer (adult) Southern corn borer ¹ Southwestern corn borer ¹ Stalk borer ¹ Stink bugs Webworm	2.3 - 3.6	0.018 - 0.028
Pests Suppressed	Product Rate (fl oz/A)	Product Rate (lbs ai/A)
Aphids	2.3 - 3.6	0.018 - 0.028
Application Notes:		
<ul style="list-style-type: none"> As the crop canopy closes, water volume should be increased to a minimum of 5 gallons per acre for aerial applications and a minimum of 10 gallons of water per acre for ground applications to insure thorough coverage. ¹ Apply to early instar larvae prior to boring into ear or stalk.		
Application Restrictions:		
Pre-Harvest Interval (PHI): 1 day(s)		
Minimum interval between applications: 1 day(s)		
Minimum application volumes: 5 gallons/Acre (Ground); 2 gallons/Acre (Aerial)		
Maximum DECIS 100 EC Insecticide allowed per season: 57.6 fluid ounces/Acre (0.45 lb Ai/Acre)		
Do not graze livestock in treated areas or cut treated crops for feed within 24 hours of the last application to a fresh / green crop.		
Do not feed treated stover to livestock within 21 days of application.		

COTTON		
Pests Controlled	Product Rate (fl oz/A)	Product Rate (lbs ai/A)
Cotton fleahoppers Cotton leafperforator Cotton leafworm Cutworm Leafhoppers Threecornered alfalfa hopper Thrips	1.7 - 2.4	0.013 - 0.019
Armyworm (all species) ¹ Boll weevil Cabbage looper ¹ Cotton bollworm European Corn borer Grasshoppers Pink bollworm Saltmarsh caterpillar Soybean looper ¹ Stink bugs Tarnished plant bug Tobacco budworm Western plant Bug	2.4 - 3.9	0.019 - 0.030
Pests Suppressed	Product Rate (fl oz/A)	Product Rate (lbs ai/A)
Aphids Mites Whitefly (adult)	2.4 - 3.9	0.019 - 0.030
<p>Application Notes:</p> <ul style="list-style-type: none"> For aerial applications under hot, dry environmental conditions or when the crop canopy is dense, gallonage requirements may need to be increased to 3 to 5 gallons of water plus crop oil concentrate at 1 pint to 1 quart per acre. Ground application gallonage should be increased to a minimum of 10 gallons per acre obtain thorough coverage. Dilute the desired amount of DECIS 100 EC so that at least 2 gallons of spray solution per acre is applied. <p>¹ For best control apply to 1st and 2nd instar larvae.</p>		
<p>Application Restrictions:</p> <p>Pre-Harvest Interval (PHI): 21 day(s)</p> <p>Minimum interval between applications: 5 day(s)</p> <p>Minimum application volumes: 5 gallons/Acre (Ground); 2 gallons/Acre (Aerial); 3 gallons/Acre (Aerial in Arizona)</p> <p>Maximum DECIS 100 EC Insecticide allowed per season: 23.4 fluid ounces/Acre (0.18 lb Ai/Acre)</p> <p>Do not make more than 6 applications of DECIS 100 EC Insecticide.</p> <p>DO NOT apply as a ULV application.</p>		

CUCURBIT VEGETABLE

Crops of Crop Group 9 Including: Chayote (fruit); Chinese waxgourd (Chinese preserving melon); citron melon; cucumber; gherkin; gourd, edible (includes hyotan, cucuzza, hechima, Chinese okra); *Momordica* spp (includes balsam apple, balsam pear, bittermelon, Chinese cucumber); muskmelon (includes cantaloupe); pumpkin; squash, summer; squash, winter (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash)

Pests Controlled	Product Rate (fl oz/A)	Product Rate (lbs ai/A)
Cabbage looper Cutworms Leafhoppers	1.5 - 3.6	0.012 - 0.028
Armyworm (all species) ¹ Colorado potato beetle Corn earworm Cucumber beetles Diamondback moth (larvae) Flea beetles Grasshoppers Leafminers Melonworm Pickleworm Stink bugs Tarnished plant bug Tobacco budworm ¹ Tomato pinworm Western plant bug	2.3 - 3.6	0.018 - 0.028
Pests Suppressed	Product Rate (fl oz/A)	Product Rate (lbs ai/A)
Green peach aphid Whitefly (adult) Vegetable weevil (adult)	2.3 - 3.6	0.018 - 0.028

Application Notes:

¹ For best control apply to 1st and 2nd instar larvae.

Application Restrictions:

Pre-Harvest Interval (PHI): **3 day(s)**

Minimum interval between applications: **3 day(s)**

Minimum application volumes: **5 gallons/Acre** (Ground); **2 gallons/Acre** (Aerial)

Maximum DECIS 100 EC Insecticide allowed per season: **21.6 fluid ounces/Acre** (0.168 lb Ai/Acre)

FRUITING VEGETABLE

Crops of Crop Group 8 Including: Eggplant; groundcherry (*Physalis* spp); pepino; pepper (includes bell pepper, chili pepper, cooking pepper, pimento, sweet pepper); tomatillo; tomato.

Pests Controlled	Product Rate (fl oz/A)	Product Rate (lbs ai/A)
Cabbage looper Leafhoppers Tomato hornworm	1.5 - 3.6	0.012 - 0.028
Armyworm (all species) ¹ Colorado potato beetle Cucumber beetle Cutworms Diamondback moth European corn borer Flea beetles Imported cabbageworm Pepper weevil Stink bugs Tarnished plant bug Thrips Tomato fruitworm (corn earworm) Tomato pinworm Variegated cutworm	2.3 - 3.6	0.018 - 0.028
Pests Suppressed	Product Rate (fl oz/A)	Product Rate (lbs ai/A)
Aphids Leafminers Whitefly	2.3 - 3.6	0.018 - 0.028

Application Notes:

¹ For best control apply to 1st and 2nd instar larvae.

Application Restrictions:

Pre-Harvest Interval (PHI): **1 day(s)**

Minimum interval between applications: **5 day(s)**

Minimum application volumes: **5 gallons/Acre** (Ground); **2 gallons/Acre** (Aerial)

Maximum DECIS 100 EC Insecticide allowed per season: **21.6 fluid ounces/Acre** (0.168 lb Ai/Acre)

GLOBE ARTICHOKE		
Pests Controlled	Product Rate (fl oz/A)	Product Rate (lbs ai/A)
Armyworm (all species) ¹ Cabbage looper ¹ Cribrate weevil Pale striped flea beetles Plume moth Probas bug	2.3 - 3.6	0.018 - 0.028
Pests Suppressed	Product Rate (fl oz/A)	Product Rate (lbs ai/A)
Aphids Leafminers Lygus bug (plant bug)	2.3 - 3.6	0.018 - 0.028
Application Notes: ¹ For best control apply to 1 st and 2 nd instar larvae.		
Application Restrictions: Pre-Harvest Interval (PHI): 3 day(s) Minimum interval between applications: 3 day(s) Minimum application volumes: 5 gallons/Acre (Ground); 2 gallons/Acre (Aerial) Maximum DECIS 100 EC Insecticide allowed per season: 18.0 fluid ounces/Acre (0.14 lb Ai/Acre)		

POME FRUIT

Crops of Crop Group 11 Including: apple; crabapple; loquat; mayhaw; pear; oriental pear, quince

Pests Controlled	Product Rate (fl oz/A)	Product Rate (lbs ai/A)
Apple leafroller Apple leaf miner Apple maggot Codling moth Green fruitworm Obliquebanded leafroller Oriental fruit moth Plum curculio Potato leafhopper Redbanded leafroller San Jose scale (crawlers) Spotted tentiform leafminer Tarnished plant bug Western plant bug White apple leafhopper	1.4 - 2.9	0.011 - 0.022
European apple sawfly Lesser appleworm Pear sawfly Periodic cicada Stink bugs	1.9	0.022
Pests Suppressed	Product Rate (fl oz/A)	Product Rate (lbs ai/A)
Aphids Pear psylla	1.9	0.022

Application Notes:

- For applications to boring insects, apply prior to the insects entering the wood or fruit. Insects contained within plant tissue may not be controlled.

Application Restrictions:Pre-Harvest Interval (PHI): **21 day(s)**Minimum interval between applications: **7 day(s)**Minimum application volumes: **25 gallons/Acre** (Ground); **10 gallons/Acre** (Aerial)Maximum DECIS 100 EC Insecticide allowed per season: **5.4 fluid ounces/Acre** (0.042 lb Ai/Acre)

ROOT, TUBEROUS AND CORM VEGETABLES (Except Sugarbeet)

Crops of Crop Group 1B Including: (carrot, celeriac, chervil (turnip-rooted), chicory, edible burdock, garden beet, ginseng, horseradish, parsley (turnip-rooted), parsnip, radish, oriental radish, rutabaga, salsify, black salsify, spanish salsify, skirret, turnip)

Crops of Crop Group 1C Including: (potato, sweet potato, arracacha, arrowroot, chinese artichoke, jerusalem artichoke, edible canna, bitter and sweet cassava, chayote (root), chufa, dasheen, ginger, leren, tanier, tumeric, yam bean, true yam)

Pests Controlled	Product Rate (fl oz/A)	Product Rate (lbs ai/A)
Cabbage looper ¹ Cutworms Pea aphid	1.5 - 3.6	0.012 - 0.028
Armyworm (all species) ¹ Colorado potato beetle European corn borer Flea beetles Leafhoppers Lygus bug (plant bug) Tarnished plant bug	2.3 - 3.6	0.018 - 0.028
Pests Suppressed	Product Rate (fl oz/A)	Product Rate (lbs ai/A)
Green peach aphid	2.3 - 3.6	0.018 - 0.028

Application Notes:

¹ For best control apply to 1st and 2nd instar larvae.

Application Restrictions:

Pre-Harvest Interval (PHI): **3 day(s)**

Minimum interval between applications: **3 day(s)**

Minimum application volumes: **5 gallons/Acre** (Ground); **2 gallons/Acre** (Aerial)

Maximum DECIS 100 EC Insecticide allowed per season: **18.0 fluid ounces/Acre** (0.14 lb Ai/Acre)

Except for radishes, do not apply to root, tuberous, and corm vegetables whose tops or leaves are to be harvested for human or livestock consumption.

SORGHUM

Pests Controlled	Product Rate (fl oz/A)	Product Rate (lbs ai/A)
Corn earworm (also known as sorghum headworm) Cutworms Flea beetles Grasshoppers Sorghum webworm	1.5 - 2.3	0.012 - 0.018
Armyworm (all species) ¹ Chinch bug Corn rootworm beetles (adult) European corn borer ¹ Lesser corn stalk borer ¹ Mexican rice borer ¹ Southern corn borer ¹ Stalk borer ¹ Sugarcane borer ¹ Sorghum midge	2.0 - 2.9	0.015 - 0.022
Stink bugs	2.3 - 2.7	0.018 - 0.022
Pests Suppressed	Product Rate (fl oz/A)	Product Rate (lbs ai/A)
Aphids	2.0 - 2.9	0.015 - 0.022

Application Notes:

¹ Apply to early instar larvae prior to boring into ear or stalk.

Application Restrictions:

Pre-Harvest Interval (PHI): **14 day(s)**

Minimum interval between applications: **6 day(s)**

Minimum application volumes: **5 gallons/Acre** (Ground); **2 gallons/Acre** (Aerial)

Maximum DECIS 100 EC Insecticide allowed per season: **5.7 fluid ounces/Acre** (0.045 lb Ai/Acre)

Do not cut or graze sorghum forage within 14 days after application of DECIS 100 EC Insecticide.

SOYBEAN		
Pests Controlled	Product Rate (fl oz/A)	Product Rate (lbs ai/A)
Corn earworm ¹ Cutworms Green cloverworm Leafhoppers Three-cornered alfalfa hopper Velvetbean caterpillar	1.5 - 2.3	0.012 - 0.018
Armyworm (all species) ¹ Bean leaf beetle Cabbage looper ¹ Click beetle Corn rootworm beetles (adult) European corn borer Grape colaspis (adult) Grasshoppers Japanese beetle (adult) Masked chafer Mexican bean beetle Saltmarsh caterpillar Soybean aphid Soybean looper ¹ Stink bugs Tarnished plant bug Tobacco budworm ¹ Webworm Yellow Woollybear	2.3 - 3.6	0.18 - 0.028
<p>Application Notes:</p> <ul style="list-style-type: none"> For aerial applications under hot, dry environmental conditions or when the crop canopy is dense, gallonage requirements may need to be increased to 4 - 5 gallons of water plus crop oil concentrate at 1 pint to 1 quart per acre. Ground application gallonage should be increased to a minimum of 15 gallons per acre to obtain thorough coverage. <p>¹ For best control apply to 1st and 2nd instar larvae.</p>		
<p>Application Restrictions:</p> <p>Pre-Harvest Interval (PHI): 21 day(s)</p> <p>Minimum interval between applications: 7 day(s)</p> <p>Minimum application volumes: 5 gallons/Acre (Ground); 2 gallons/Acre (Aerial)</p> <p>Maximum DECIS 100 EC Insecticide allowed per season: 12.8 fluid ounces/Acre (0.1 lb Ai/Acre)</p> <p>Do not allow livestock to graze treated forage, or feed treated hay to livestock.</p>		

SUNFLOWERS
(Not registered for use in California)

Pests Controlled	Product Rate (fl oz/A)	Product Rate (lbs ai/A)
Banded sunflower moth Cabbage looper ¹ Corn earworm ¹ Cutworms Grasshoppers (except lubber grasshoppers) Leafhoppers Potato flea beetle Sunflower beetle Sunflower seed weevil Sunflower stem weevil (moth) Sunflower maggot Sunflower moth	1.5 - 2.3	0.012 - 0.018

Application Notes:

¹ For best control apply to 1st and 2nd instar larvae.

Application Restrictions:

Pre-Harvest Interval (PHI): **21 day(s)**

Minimum application volumes: **5 gallons/Acre** (Ground); **2 gallons/Acre** (Aerial)

Maximum DECIS 100 EC Insecticide allowed per season: **5.7 fluid ounces/Acre** (0.045 lb Ai/Acre)

Do not graze or feed treated sunflower foliage to livestock.

Do not apply to sunflowers as an Ultra-Low Volume (ULV) spray.

TREE NUTS

Crops of Crop Group 14 plus pistachio Including: (almonds, beech nut, Brazil nut, butternut, cashew, chestnut, chinquapin, filbert, hickory nut, macadamia nut, pecan, pistachio, walnut)

Pests Controlled	Product Rate (fl oz/A)	Product Rate (lbs ai/A)
Codling moth Filbertworm Hickory shuckworm Leafhoppers Navel orangeworm Obliquebanded leafroller Peach twig borer Pecan nut casebearer Pecan weevil Stink bugs Tarnished plant bug Walnut husk fly Western peach borer	2.6 - 4.2	0.02 - 0.033
Pests Suppressed	Product Rate (fl oz/A)	Product Rate (lbs ai/A)
Aphids	2.6 - 4.2	0.02 - 0.033
Application Notes: <ul style="list-style-type: none"> For best results against over-wintering peach twig borer, apply as a dormant spray or delayed dormant spray. DECIS 1.0 Insecticide may be applied in combination with dormant oil. Refer to the dormant oil product label for additional use directions and restrictions. 		
Application Restrictions: Pre-Harvest Interval (PHI): 21 day(s) Minimum interval between applications: 7 day(s) Minimum application volumes: 25 gallons/Acre (Ground); 10 gallons/Acre (Aerial) Maximum DECIS 100 EC Insecticide allowed per season: 21 fluid ounces/Acre (0.165 lb Ai/Acre)		

STORAGE AND DISPOSAL

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

Pesticide storage

Do not store over 100°F or below 10°F.

Pesticide 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

[Non-Refillable Containers]

Rigid, Non-refillable containers (equal to or less than 5 gallons)

Non-refillable container. Do not reuse or refill this container. Triple rinse or pressure 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.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Once container is rinsed, offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration.

Rigid Non-refillable Containers that are too large to shake (i.e., with capacities greater than 5 gallons or 50 lbs)

Non-refillable container. Do not reuse or refill this container. Refer to Bottom Discharge IBC or Top Discharge IBC, Drums, Kegs information as follows.

Bottom Discharge IBC (e.g. – Schuetz Caged IBC or Snyder Square Stackable)

Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. To pressure rinse the container before final disposal, empty the remaining contents from the IBC into application equipment or mix tank. Raise the bottom of the IBC by 1.5 inches on the side which is opposite of the bottom discharge valve to promote more complete product removal. Completely remove the top lid of the IBC. Use water pressurized to at least 40 PSI to rinse all interior portions. Continuously pump or drain rinsate into application equipment or rinsate collection system while pressure rinsing. Continue pressure rinsing for 2 minutes or until rinsate becomes clear. Replace the lid and close bottom valve.

Top Discharge IBC, Drums, Kegs (e.g.– Snyder 120 Next Gen, Bonar B120, Drums, Kegs)

Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. To triple rinse the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container at least 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Rinse all interior surfaces. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this procedure two more times.

Top Discharge IBC, Drums, Kegs (e.g.– Snyder 120 Next Gen, Bonar B120, Drums, and Kegs)

Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. To triple rinse the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container at least 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Rinse all interior surfaces. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this procedure two more times.

Once container is rinsed, offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration.

Non-Refillable Fiber Drums with Liners

Non-refillable container. Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment, then offer for recycling if available or dispose of in a sanitary landfill or by incineration. If drum is contaminated and cannot be reused, dispose of it in the manner required for its liner.

Non-Rigid, Non-refillable Containers

Nonrefillable container. Do not reuse or refill this container. Completely empty container into application equipment. Then offer for recycling if available or dispose of in a sanitary landfill or by other procedures approved by state and local authorities."

[Refillable Containers]

Refillable container. Refer to Bottom Discharge IBC or Top Discharge IBC, Drums, Kegs information as follows. Refill this container with pesticide only. Do not reuse this container for any other purpose. Contact your Ag retailer or Bayer CropScience for container return, disposal and recycling information.

Bottom Discharge IBC (e.g. – Schuetz Caged IBC or Snyder Square Stackable)

Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To pressure rinse the container before final disposal, empty the remaining contents from the IBC into application equipment or mix tank. Raise the bottom of the IBC by 1.5 inches on the side which is opposite of the bottom discharge valve to promote more complete product removal. Completely remove the top lid of the IBC. Use water pressurized to at least 40 PSI to rinse all interior portions. Continuously pump or drain rinsate into application equipment or rinsate collection system while pressure rinsing. Continue pressure rinsing for 2 minutes or until rinsate becomes clear. Replace the lid and close bottom valve.

Top Discharge IBC, Drums, Kegs (e.g.– Snyder 120 Next Gen, Bonar B120, Drums, Kegs)

Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To triple rinse the containers before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container at least 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Rinse all interior surfaces. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this procedure two more times.

Once container is rinsed, offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration.

End users are authorized to remove tamper-evident cables as required to remove the product from the container unless the container is equipped with one-way valves and refilling or returning is planned. If this is the case, end-users are not authorized to remove tamper-evident cables, remove one-way valves, or clean container.

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