

PM 03

34147-13

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RESTRICTED USE PESTICIDE**DUE TO 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

DECIS® 1.0 GEL**INSECTICIDE****FOR INSECT CONTROL ON COTTON**

	Percent by Weight
ACTIVE INGREDIENT:	
(1R, 3R) - 3(2,2-dibromovinyl)-2,2-dimethylcyclopropane-carboxylic acid (S) - alpha-cyano-3-phenoxybenzyl ester.....	11.7%*
INERT INGREDIENTS**.....	88.3%
	TOTAL 100%
* Equivalent to 1.0 lb. active ingredient per U.S. gallon	
** Contains petroleum distillates	

EPA Reg. No. 34147- 13

EPA EST. No.

KEEP OUT OF REACH OF CHILDREN**DANGER-PELIGRO**

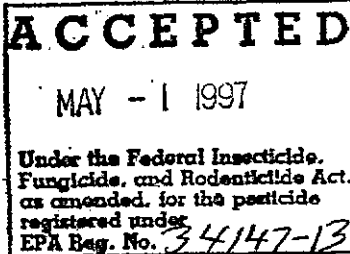
Si Usted no entiende la etiqueta, busque a alguien para que se la explique a Usted en detalle. (If
you do not understand the label, find someone to explain it to you in detail.)

See Side Panels for Additional Precautionary Statements

Registrant:

Hoechst Schering AgrEvo, S.A.
Paris, France

Net Contents:



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STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes.
Get medical attention.

IF SWALLOWED: Call a doctor or get medical attention. **Do not** induce vomiting. Do not give anything by mouth to an unconscious person. Avoid alcohol.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.
May pose an aspiration pneumonia hazard.

PRECAUTIONARY STATEMENTS

Hazards to Humans (and Domestic Animals)

DANGER - PELIGRO

Corrosive. Causes irreversible eye damage. May be fatal if swallowed. Causes skin irritation. Harmful if absorbed through skin. Avoid breathing spray mist. Wear protective clothing, gloves, and eyewear as specified below. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove contaminated clothing and wash clothing before reuse.

Skin exposure may result in a sensation described as a tingling, itching, burning, or prickly feeling. Onset may occur immediately to 4 hours after exposure and may last 2 to 30 hours, without damage. Wash exposed areas once with soap and water. Relief from the skin sensation may be obtained by applying an oil-based cream.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category G on an EPA chemical resistance category selection chart.

Handlers who may be exposed to the dilute through application or other tasks must wear:

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves such as barrier laminate, viton, nitrile, butyl, or neoprene
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when mixing or loading, or cleaning equipment

Handlers who may be exposed to the concentrate through mixing, loading, application, or other tasks must wear:

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves such as barrier laminate or viton
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when mixing or loading, or cleaning equipment

ENGINEERING CONTROLS STATEMENT

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.

Water-soluble packets when used correctly qualify as a closed loading system under the WPS. Handlers handling this product while it is enclosed in intact water-soluble packets may elect to wear reduced PPE of long-sleeved shirt, long pants, shoes, socks, a chemical resistant apron, and chemical resistant gloves.

IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "Applicators and Other Handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

USER SAFETY RECOMMENDATIONS

Users should: Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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 washwaters.

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 actively foraging.

Notify state and/or Federal authorities and AgrEvo USA Company immediately if you observe any adverse environmental effects due to the use of DECIS® 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 AND CHEMICAL HAZARDS

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

**IN CASE OF MEDICAL EMERGENCIES OR HEALTH AND SAFETY INQUIRIES, OR
IN CASE OF FIRE, LEAKING, OR DAMAGED CONTAINERS, INFORMATION MAY
BE OBTAINED BY CALLING 800-228-5636, EXT. 202**

STORAGE AND DISPOSAL

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

Pesticide Storage: Do not store over 100°F. Do not store this product under wet conditions.

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 Disposal: Do not reuse outer bag. Dispose of outer bag in a sanitary landfill, by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

DIRECTIONS FOR USE

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

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.

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, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) 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 over short-sleeved shirt and short pants
- Chemical-resistant gloves such as barrier laminate, viton, nitrile, butyl, or neoprene
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure

GENERAL INFORMATION

DECIS 1.0 GEL is formulated as gelatinous deltamethrin containing the equivalent of 1.0 lb active ingredient per U.S. gallon, and is packaged in water soluble bags. Each water soluble bag contains 0.2 lb of the active ingredient deltamethrin.

Dilute DECIS 1.0 GEL Insecticide in water according to the directions in the RATE OF APPLICATION CHART and use as a foliar spray at the rates listed therein. Uniform coverage is essential. Begin applications when economic infestations occur based on local information, and repeat as needed.

DETERMINATION OF THE REQUIRED NUMBER OF DECIS 1.0 GEL INSECTICIDE BAGS

1. Select the intended use rate in lbs ai/A from the RATE OF APPLICATION CHART.
2. Select the number of acres to be treated from the CONVERSION TABLE corresponding to the selected rate of application.*
3. The number of bags of DECIS 1.0 GEL needed is listed in the first column.

*Note that the number of acres that can be treated per load is dependent upon the water volume selected and the capacity of the spray tank. See the dilution requirements in the RATE OF APPLICATION CHART.

MIXING, LOADING AND HANDLING INSTRUCTIONS

USE PRECAUTIONS: DO NOT use DECIS 1.0 GEL bags in a tank mix with products that contain boron, chromium or other micronutrients.

GENERAL HANDLING INSTRUCTIONS: Each DECIS 1.0 GEL Insecticide water soluble bag comes sealed in a clear plastic outer sleeve. Do not break the seal until time of use. To use, open the end of the outer sleeve by tearing along the printed solid black line. Do not use a knife or other sharp object to break the seal. Once the outer protective sleeve is open, the water soluble bag inside can be dropped into the spray tank at the appropriate time without touching it.

SPECIFIC MIXING INSTRUCTIONS: To ensure proper mixing of the gel bags, follow the instructions below:

1. **DECIS 1.0 GEL ALONE:** Begin by filling the spray tank with clear water to prime the system (about 6-8 inches for most sprayers). Turn off the fill valve and drop the recommended number of gel bags into the tank, distributing them across the bottom but not covering the circulation and outlet holes. After the bags have soaked for 2 minutes, start the agitation and

agitate thoroughly for 2 minutes. With the agitation on, continue to fill the spray tank to the desired level. Agitate during spraying. If spraying must be stopped before emptying the sprayer, resume agitation before spraying the remainder of the load.

2. **DECIS 1.0 GEL TANK-MIXTURES:** Follow all use directions as listed above under **DECIS 1.0 GEL ALONE** with the following exception: After the DECIS 1.0 gel bags are thoroughly mixed and the water is added to fill the tank 1/2 full, add the recommended amount of wettable powder, soluble powder, flowable, emulsifiable concentrate, or soluble liquid product, while maintaining agitation. If a spray additive is needed, add liquid fertilizer (except fertilizers containing boron, chromium or other micronutrients, see **USE PRECAUTION** above), surfactant, or crop oil concentrate to the spray tank. Then continue adding water to the tank to achieve the desired level, while maintaining agitation.

3. **DECIS 1.0 GEL TANK-MIXTURES WITH PRODUCTS IN WATER-SOLUBLE PACKAGING:** Follow all use directions as listed above under **DECIS 1.0 GEL ALONE** with the following exception: Add the desired number of other water-soluble bags to the tank (if allowed by their label instructions) at the same time the DECIS 1.0 gel bags are added to the spray tank.

HANDLING PRECAUTIONS FOR WATER SOLUBLE BAGS:

- ☐ Do not allow the empty outer sleeve or the tear-strip to fall into spray tank as they are not water soluble and may clog the sprayer.
- ☐ Do not handle the inner bag with wet gloves as the bag will begin to dissolve on contact with even a small amount of water.
- ☐ Do not open the inner bags or attempt to remove the gel from them. The gel is not designed to be re-measured or subdivided; the entire contents of the water-soluble bag must be used.

DECIS 1.0 GEL RATE OF APPLICATION

Insect*	Pounds AI/A	Dilution Requirements
Lygus bug Cotton leaf perforator Cutworms Leafhoppers Cotton fleahoppers Plant bugs Thrips Cotton leafworm	0.013 to 0.019	<u>Minimum gallonage requirements:</u> For aerial applications use a minimum of two (2) gallons of water per acre (5 gallons in California and 3 gallons in Arizona). For ground applications, use a minimum of 4 gallons of water per acre for thorough coverage of the foliage.
Cotton bollworm Tobacco budworm Pink bollworm Boll weevil Cabbage looper Soybean looper** Fall armyworm** Beet armyworm** European corn borer Stink bugs Mites** Aphids** Whitefly** Saltmarsh caterpillar	0.019 to 0.03	<u>Optimum gallonage requirements</u> For aerial applications under hot, dry environmental conditions or when the crop canopy is dense, gallonage requirements may need to be increased to 3-5 gallons of water plus crop oil concentrate at 1 pint to 1 quart per acre. For ground applications, use a minimum of four (4) gallons of water per acre for thorough coverage of the foliage.

* Make the first application as required before insect populations increase to economic significance. Additional applications may be made if insect populations rebuild.

** Suppression only

NOTES:

1. DO NOT make more than ten (10) applications of DECIS 1.0 GEL (for a total of no more than 0.3 pound of active ingredient per acre) per growing season.
2. Allow 5 days between successive applications of DECIS 1.0 GEL.
3. DO NOT apply DECIS 1.0 GEL through any type of irrigation system.
4. DO NOT apply DECIS 1.0 GEL within 21 days of harvest.
5. DO NOT apply this product as a ULV application. Dilute the desired amount of DECIS 1.0 GEL so that at least 2 gallons of spray solution per acre is applied.

**CONVERSION TABLE FOR DECIS 1.0 GEL
SOLUBLE BAGS (Containing 0.2 lb ai/bag)**

Number of Acres Treated at Desired Rate of Application

Rate of Application	0.013 lb ai/acre	0.016 lb ai/acre	0.019 lb ai/acre	0.02 lb ai/acre	0.021 lb ai/acre	0.023 lb ai/acre	0.025 lb ai/acre	0.027 lb ai/acre	0.029 lb ai/acre	0.03 lb ai/acre
# Bags										
1	15.4	12.5	10.5	10	9.5	8.7	8	7.4	6.9	6.7
2	30.8	25	21	20	19	17.4	16	14.8	13.8	13.3
3	46.2	37.5	31.5	30	28.6	26	24	22.2	20.7	20
4	61.5	50	42	40	38	34.8	32	29.6	27.6	26.7
5	77	62.5	52.6	50	47.6	43.5	40	37	34.5	33.3
6	92.3	75	63	60	57	52	48	44.4	41.4	40
7	107.7	87.5	73.7	70	66.7	60.9	56	51.8	48.3	46.7
8	123	100	84	80	76	69.6	64	59.3	55.2	53.3
9	138.5	112.5	94.7	90	85.7	78.3	72	66.7	62.1	60

RESISTANCE

Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. Consult your local or state agricultural authorities for details.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area.

TANK MIX RECOMMENDATIONS

DECIS 1.0 GEL Insecticide may be applied in tank mixtures with other products approved for use on cotton. Observe all restrictions and precautions which appear on the labels of those products.

SUPPLEMENTAL SPRAY RECOMMENDATIONS AND PRECAUTIONS FOR COTTON

- Do not make more than a total of 10 synthetic pyrethroid applications (of one product or combination of products) to a cotton crop in one growing season. Synthetic pyrethroid products include AMBUSH®, AMMO® 2.5 EC, ANANA® XL, BAYTHROID 2, CAPTURE® 2 EC, CYMBUSH, DANITOL 2.4 EC, DECIS®, FURY™ 1.5 EC, KARATE®, MUSTANG, POUNCE® 3.2 EC, SCOUT X-TRA®, and SYNERGIN™ 2.

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

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.

- Do not apply by ground within 25 feet or by air within 150 feet of lakes; reservoirs; rivers; permanent streams, marshes, or natural ponds; estuaries and commercial fish farm ponds.
- For aerial applications, the spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used, and must not exceed 75% of wing span or rotor diameter.
- Use the largest droplet size consistent with pest control. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible, and by avoiding excessive spray boom pressure.
- Spray should be released at the lowest height consistent with good pest control and flight safety. Applications more than 10 feet above the crop canopy should be avoided.
- Make aerial or ground applications when the wind velocity favors on-target product deposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 15 mph. Avoid applications when wind gusts approach 15 mph.
- Risk of exposure to aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.
- Do not cultivate within 10 feet of the aquatic area so as to allow growth of vegetative filter strip.
- Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift to aquatic areas.
- Do not make aerial or ground applications during 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.

(DECIS 1.0 GEL Insecticide is formulated using Gel-Tec® technology under license from Rhone-Poulenc, Inc.)

IMPORTANT: READ BEFORE USE

By using this product, user or buyer accepts the following conditions, warranty, disclaimer of warranties and limitations of liability.

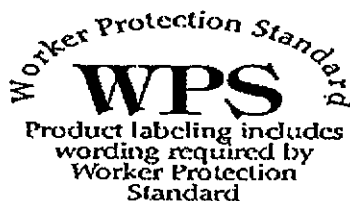
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(DECIS 1.0 GEL/REG/ 970326)

**Water Soluble Unit Pack Labeling for
DECIS® 1.0 GEL**

DECIS® 1.0 GEL

Insecticide for Use on Cotton

Active Ingredient: (1R, 3R)-3 (2,2-dibromovinyl)-2-2-dimethylcyclopropane-carboxylic
acid (S)-alpha-cyano-3-phenoxybenzyl ester

DANGER - PELIGRO

Keep Out of Reach of Children

EPA Reg. No. 34147-13

Restricted Use Pesticide

See additional precautions and
directions for use on
accompanying labeling and
packaging

Registrant: Hoechst Schering AgrEvo, S.A.
Paris, France

(970326)