

4581-116

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**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

Mr. Timothy Formella  
Manager, Product Registration  
Elf Atochem North America, Inc.  
Agrichemicals Division  
2000 Market Street, 21st. Floor  
Philadelphia, PA 19103-3222

Dear Mr. Formella:

Subject: Dust Use Directions  
Kryocide Insecticide  
EPA Reg. No. 4581-116  
Your Application of August 9, 2000

The labeling amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, As Amended (FIFRA), is acceptable, provided that you:

Submit one copy of your final printed label incorporating the following corrections before you release the product for shipment.

1. Relocate the three statements now appearing on the bottom of the third page from the present location to the section headed, General Information as they appear on your previous accepted label of October 26, 1995.

2. Qualify the, "May be applied alone, with dusting sulfur, or other dust products." by specifying that when applied in combination with other products, the label directions, and restrictions appearing on the label of the registered sulfur or other dust product must be followed and that such use must be in accordance with the most restrictive of label limitations and restrictions.

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If this condition is not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product bearing the amended label constitutes acceptance of this condition.

A stamped copy of the label is enclosed for your records.

Sincerely,

A handwritten signature in cursive script, appearing to read "Marilyn A. Mautz".

Marilyn A. Mautz

Biologist

Insecticide-Rodenticide Branch  
Registration Division (7504C).

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# KRYOCIDE®

## INSECTICIDE

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

4581-116

### ACTIVE INGREDIENT

Cryolite: sodium aluminofluoride (Fluorine-not less than 50%) .. 96.0%

INERT INGREDIENTS ..... 4.0%

TOTAL ..... 100.0%

KEEP OUT OF REACH OF CHILDREN

### CAUTION

HARMFUL IF SWALLOWED, ABSORBED THROUGH SKIN OR INHALED. CAUSES  
MODERATE EYE IRRITATION. For additional Precautionary Statements,  
Directions for Use refer to back panel.

### FIRST AID

If on skin or clothing	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If in eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>

Have the product container or label with you when calling a poison  
control center or doctor, or going for treatment.

EPA Registration No. 4581-116

EPA Establishment No. 33770-JP-01

Net Weight 50 Lbs. (22.68 kg)

ELF ATOCHEM NORTH AMERICA, INC.  
AGRICHEMICALS GROUP  
2000 Market Street, Philadelphia, PA 19103

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)**

**CAUTION**

**Precautionary Statements:**

HAZARDOUS IF SWALLOWED, ABSORBED THROUGH SKIN, OR INHALED. CAUSES MODERATE EYE IRRITATION. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist.

**Personal Protective Equipment:**

Applicators and other handlers must wear:

- Long sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

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.

**User Safety Recommendations:**

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.

**ENVIRONMENTAL HAZARDS**

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate.

**GENERAL INFORMATION**

KRYOCIDE is a fine powder suitable for spray or dust application by ground equipment or air. A thorough application should be made, covering the underside of the leaves, if possible, as well as the top surfaces. Some processors may have additional use restrictions. Check with your processor. This product is compatible with Integrated Pest Management (IPM) Programs.

**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), 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 gloves
- Shoes plus socks

KRYOCIDE is recommended for control of the insects on the crops listed. KRYOCIDE may be used in combination with other commonly used pesticides and approved adjuvants.

NOTE: Do not use KRYOCIDE in combination with lime or compounds containing free lime.

Remove visible residues on edible portions of fruit and vegetables by washing, brushing, field trimming, or other effective means.

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#### STORAGE AND DISPOSAL

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

**Storage Instructions:** Store in the original container in a dry area. Do not store in a manner where cross-contamination with other pesticides, fertilizers, food or feed could occur. If spilled during storage or handling sweep up spillage and dispose of in accordance with the Pesticide Disposal Instructions listed below.

**Pesticide Disposal Instructions:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal Instructions:** Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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# DIRECTIONS FOR USE ON VEGETABLE AND FRUIT CROPS

**When used as a spray:** Apply in a minimum of 5 gallons of water by air and in a minimum of 10 gallons of water by ground or in sufficient spray volume to obtain thorough coverage.

**When used as a dust:** May be applied alone, with dusting sulfur, or other dust products.

**When used as a spray or dust:** Apply when insects are small (early instar). Use the higher rates for severe insect infestations.

CROP	INSECTS	SPRAY or DUST RATE LBS/A	REMARKS
Broccoli Cabbage Cauliflower Brussels sprouts* Kohlrabi*	Cabbage Looper Cutworms Corn Earworm Diabrotica Beetles Diamondback Moth Caterpillar Flea Beetles Imported Cabbageworm Yellowstriped Armyworm	8-16	Apply as needed with a minimum of 14 days between applications. Do not exceed 96 lbs. per acre per season. Do not apply within 14 days of harvest.
Cucumber	Cabbage Looper Diabrotica Beetles Cucumber Beetles Flea Beetles Melonworm Pickleworm	8-12	Apply as needed with a minimum of 10 days between applications. Do not exceed 48 lbs. per acre per season. Do not apply within 14 days of harvest.
Squash Melons	Cabbage Looper Diabrotica Beetles Cucumber Beetles Flea Beetles Melonworm Pickleworm	8-16	Apply as needed with a minimum of 7 days between applications. Do not exceed 64 lbs. per acre per season. Do not apply within 14 days of harvest.

Collards	Cabbage Looper Cutworms Corn Earworm Diabrotica Beetles Diamondback Moth Caterpillar Flea Beetles Imported Cabbageworm Yellowstriped Armyworm	8-16	Apply as needed with a minimum of 10 days between applications. Do not exceed 96 lbs. per acre per season. Do not apply within 14 days of harvest.
Citrus	Citrus Cutworm Fruittree Leafroller Fuller Rose Beetle Garden Tortrix Halcocera Katydid Orange Tortrix Orangedog Variegated Cutworm Blue Green Citrus Root Weevil*	8-20	Apply as needed with a minimum of 30 days between applications. Do not exceed 90 lbs. per acre per season. Do not apply within 15 days of harvest.
Grapes	Flea Beetles Climbing Cutworms	4-10	Apply as needed with a minimum of 21 days between applications. When needed to control later broods, make additional applications after the fruit is 1/4 inch or larger in diameter. Do not apply more than 20 lbs. per acre for preharvest use per crop year. Do not apply within 30 days of harvest. For application to grapes grown for table use after the fruit is 1/4 inch or larger in diameter, use of concentrate sprays will reduce visible spots which may result from the use of dilute applications at that stage. If used on wine grapes or grapes that may be sold to a winery for export, please observe their restrictions on post-bloom applications of KRYOCIDE.
	Omnivorous Leafroller Yellowstriped Armyworm	6-10	
	Grape Leafroller Orange Tortrix Western Grapeleaf Skeletonizer Grape Berry Moth *	5-8	



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Grapevines (after harvest)	Cutworms Grape Leafroller Omnivorous Leafroller Orange Tortrix Western Grapeleaf Skeletonizer Grape Berry Moth *	5-8	For control of leaf feeding insects after all harvestable fruit or raisins have been removed from the vineyard. Apply before leaf drop while insects are actively feeding. Apply as needed, but no more than 28 lbs. per acre for the combination of preharvest and post harvest use per crop year.
Kiwi FOR USE IN CALIFORNIA ONLY	Omnivorous Leafroller	10	Apply with ground equipment only. When used as a spray use sufficient water to obtain thorough coverage, up to 200 gallons spray per acre. Apply as needed with a minimum of 15 days between applications. Do not exceed 40 lbs. per acre per season. Do not apply within 30 days of harvest.
Lettuce (leaf and head varieties)	Armyworm Cabbage Looper Corn Earworm Tobacco Budworm	8-20	Apply as needed with a minimum of 7 days between applications. Do not exceed 160 lbs. per acre per season. Do not apply within 14 days of harvest.
Peppers	Hornworms Pepper Weevil Omnivorous Leafroller	8-12	Apply as needed with a minimum of 7 days between applications. Do not exceed 24 lbs. per acre per crop. Do not apply within 14 days of harvest.
Potatoes*	Colorado Potato Beetle	10-12	For spray applications: Apply by air in 5-15 gallons of water per acre or by ground in 15-100 gallons of water. Apply with a minimum of 7 days between applications. Do not apply more than 96 lbs. per acre per season. Application to exposed tubers may result in excess residues.

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Tomatoes Eggplant*	Colorado Potato Beetle Larvae* Blister Beetles Cabbage Looper Flea Beetles Fruitworms Hornworms Tomato Pinworms	8-16	Apply as needed with a minimum of 7 days between applications. Do not exceed 64 lbs. per acre per season. Do not apply within 14 days of harvest.
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\* Not registered for this use in California.

#### DIRECTIONS FOR USE ON ORNAMENTALS

CROP	INSECTS	SPRAY or DUST RATE LBS/A	REMARKS
Ornamentals and Shade Trees	Codling Moth Flea Beetles Fuller Rose Beetle Gypsy Moth Caterpillars Katydid Plum Curculio Leafrollers	8-24	For spray applications: Apply in a minimum of 5 gallons of water by air and in a minimum of 10 gallons of water by ground. Use sufficient water volume to obtain thorough coverage of the plants. For spray or dust applications: Use the higher rate for severe insect infestations.

#### DIRECTIONS FOR USE THROUGH CHEMIGATION SYSTEMS

##### NOT FOR THIS USE IN CALIFORNIA

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

Observe all applicable precautions and limitations on the Federal label. The label must be in the possession of the user at the time of pesticide application.

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## GENERAL INSTRUCTIONS

Apply this product only through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. 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 nonuniform distribution of treated water.

If you have any questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts.

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.

Do not connect chemigation system to any public water system. Public water system means a system for the provision 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.

## SYSTEM REQUIREMENTS

Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:

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.

## APPLICATION INSTRUCTIONS

Observe the requirements in the System Requirements section above.

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Apply KRYOCIDE only through systems containing anti-syphon and check valves designed to prevent water source contamination or overflow of the mix tank and containing interlocking controls between the metering device and the water pump to insure simultaneous shutoff.

Maintain a gentle continuous agitation in mix tank during mixing and application to assure a uniform suspension.

Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute suspension per unit time.

Application of more than recommended quantities of irrigation water per acre may result in decreased product performance.

Do not apply when wind speed favors drift, when system connections or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product cannot be flushed and must be dismantled and drained. In a center pivot system, block the nozzle set nearest the well/pivot/injection unit to prevent spray being applied to this area.

Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water.

#### SPRAY PREPARATION

Remove scale, pesticide residues, and other foreign matter from the chemical tank and entire injector system. Flush with clean water. Prepare a suspension of KRYOCIDE in a mix tank. Fill the tank with  $\frac{1}{4}$  or  $\frac{1}{2}$  the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of KRYOCIDE and then the remaining volume of water.

#### Sprinkler Irrigation - Notes

Observe all System Requirements and Application Instructions above.

Set sprinkler system to deliver 0.1 to 0.125 inches of water per acre. Volumes of water higher than this may reduce efficacy. Start sprinkler and then uniformly inject the suspension of KRYOCIDE into the irrigation water line so as to deliver the desired rate per acre. The suspension of KRYOCIDE should be injected with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing. When treatment with KRYOCIDE has been completed, do not irrigate the treated area for 24 to 48 hours to prevent washing the chemical off the crop.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Where sprinkler distributed patterns do not overlap sufficiently, unacceptable pest control may result.

Check local restrictions and requirements regarding sprinkler irrigation applications, as they may vary from state to state.

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## EMERGENCY TELEPHONE NUMBERS:

CHEMTREC: (800) 424-9300

MEDICAL: (303) 623-5716

Rocky Mountain Poison Control Center

## WARRANTY AND DISCLAIMER

Elf Atochem North America warrants that this material conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use, subject to the risks referred to therein. ELF ATOCHEM MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL ELF ATOCHEM OR SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS, BUSINESS REPUTATION, OR CUSTOMERS; LABOR COST; OR OTHER EXPENSES INCURRED IN PLANTING OR HARVESTING.

Elf Atochem and seller offer this product and the buyer and user accept it subject to the foregoing conditions of sale and warranty which may be varied only by agreement in writing signed by a duly authorized representative of Elf Atochem.

Printed in U.S.A.

5-3617S-03 E3 (8/00)

Made in Japan

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