

4581-392

11/28/2001

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

Mr. Timothy Formella  
Cerexagri, Inc.  
630 Freedom Business Center, Suite 402  
King of Prussia, PA 19406

NOV 28 2001

Dear Mr. Formella:

Subject: Amendment - Comply with 2000 Diazinon MOA;  
Delete Commercial Landscape Uses;  
Update First Aid per PR Notice 2001-1; and  
Update CSF/replacement diazinon source

Knox Out NL  
EPA Registration Number 4581-392  
Your submission dated June 26, 2001

The amendment referred to above, submitted in connection with registration under FIFRA section 3(c)(7)(a), is acceptable provided that you:

1. Submit and/or cite all data or other material required for registration/reregistration of your product under FIFRA section 3(c)(5) or FIFRA section 4 when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
  - a. Under the heading General Information, at the end of the first paragraph add "Do not apply this product in greenhouses."
3. Submit three (3) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

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

The Basic Confidential Statement of Formula (CSF) dated June 21, 2001 which identifies a replacement diazinon source Manufacturing Use Product is acceptable and has been added to this product's registration file.

Sincerely,

George T. LaRocca  
Product Manager 13  
Insecticide Branch  
Registration Division (7505C)

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**RESTRICTED USE PESTICIDE - Due to Avian and Aquatic Toxicity**

For retail sale to and use only by certified applicators or persons under their direct supervision and only for those uses covered by the certified applicator's certification.

SHAKE WELL BEFORE USING

**KNOX OUT® NL**

Flowable Microencapsulated Insecticide

For Outdoor Use on Ornamentals in Nurseries

This product must not be used on golf courses or sod farms.

**ACTIVE INGREDIENT:**

Diazinon: O,O-Diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate .....23.0%

INERT INGREDIENTS: ..... 77.0%

TOTAL: ..... 100.0%

Contains 2 pounds diazinon per gallon.  
U.S. patents 3,429,827 and 3,577,515.

RECEIVED  
WITH COMMENTS  
NOV 28 2001  
4581-392

EPA Registration No. 4581- 392

EPA Establishment No. \_\_\_\_\_

Contents: \_\_\_\_\_ fl. oz.

Sold by  
Cerexagri, Inc.  
630 Freedom Business Center, Suite 402  
King of Prussia, PA 19406  
Keep Out Of Reach Of Children  
**CAUTION**

<b>FIRST AID</b>	
Contains an organophosphate that inhibits cholinesterase.	
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 swallowed	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious or convulsing person.</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. 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>
If inhaled	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<b>NOTE TO PHYSICIAN</b>	
This product contains diazinon, an organophosphate that inhibits cholinesterase. If symptoms of cholinesterase inhibition are present, Atropine by injection is antidotal. 2-PAM is also antidotal, but should be administered only in conjunction with atropine. Morphine is contraindicated.	

<b>PRECAUTIONARY STATEMENTS</b>
<b>HAZARDS TO HUMANS AND DOMESTIC ANIMALS</b>
Harmful if swallowed, inhaled, or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist. Use only in well ventilated areas. Wash thoroughly with soap and water after handling and before eating or smoking. Keep out of reach of children. Do not allow children or pets to contact treated surfaces until spray has dried. Do not apply to humans or pets. Do not contaminate food, feed, or water supply. Food utensils, such as spoons or measuring cups, must not be used for food purposes after use in measuring pesticides. Do not spray where electrical short circuits might result, such as wall outlets, conduits, switch boxes, or motor housings.
<b>PERSONAL PROTECTIVE EQUIPMENT (PPE)</b>
Applicators and other handlers must wear: long-sleeved shirt and long pants, 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:** 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**

This pesticide is highly toxic to birds, fish, and other wildlife. Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Do not exceed maximum permitted label rates. Rates above those recommended significantly increase potential hazards to birds and waterfowl. Avoid overlapping of sprays. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or when disposing of equipment washwaters. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab, and other aquatic life are important resources.

This pesticide is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this pesticide or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

#### **STORAGE AND DISPOSAL**

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

**Storage:** Store in original container only, preferably in a locked storage area. Do not store in a manner where cross contamination with other pesticides, fertilizer, food or feed could occur. If spilled during storage or handling, soak up spillage with absorbent material and dispose of in accordance with Pesticide Disposal instructions listed below.

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

**Container Disposal:** Triple rinse container, then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or 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. Reformulation or repackaging of this product is prohibited.

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.

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#### **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, waterproof, gloves, and shoes plus socks.

#### **GENERAL INFORMATION**

Knox Out NL is a flowable microencapsulated formulation containing 2 pounds diazinon per gallon. It is to be used for pest control on ornamentals in nurseries. Do not apply to lawns or food crops.

Due to its controlled-release nature, Knox Out NL gives excellent residual kill of the pests listed on this label; however, effective knockdown may take up to 24 hours after application.

Thoroughly wash out spray equipment before using Knox Out NL. Shake concentrate well before diluting. Do not apply this product through any type of irrigation system. When diluting, first add approximately half of the water to the spray tank, then add the required quantity of Knox Out NL and finally add the rest of the water. Occasionally agitate sprayer during use to assure even coverage. Shake or re-agitate sprayer before use if application is interrupted.

Do not use this formulation with oil adjuvants (crop oil, dormant, or horticultural oils).

IF SPRAY SCREENS ARE USED, THEY SHOULD BE 50 MESH OR LARGER.

#### **ORNAMENTALS GROWN OUTDOORS IN NURSERIES**

Use in nurseries is covered by the requirements of the Worker Protection Standard, 40 CFR part 170. See specific instructions on this label for protective clothing and other requirements under that Standard.

**Outdoor Use Precautions:** Wear a long-sleeved shirt and long-legged pants when spraying. Spray with the wind to your back. Do not spray on windy days. If clothing becomes wet from spray during use, remove clothing after spraying, wash affected body areas thoroughly with soap and water and launder clothing before wearing again. Do not apply this product through any type of irrigation system. This product is highly toxic to bees exposed to direct treatment or to residues on blooming plants. Do not apply this product or allow it to drift to blooming plants if bees are visiting the treatment area. Refer to Environmental Hazards section for measures to protect birds and wildlife. Avoid overlapping of sprays. Apply to ornamental plants only. Do not apply to lawns or food crops.

### Ornamental Pests

For control of Aphids, Boxelder Bugs, Elmleaf Beetles, Fungus Gnat Larvae, Leafminers, Mealybugs (Citrus, Stem and Root), Mites, Scale Insects, Thrips and White Fly (suppression): Apply Knox Out NL to the ornamentals listed on this label at a rate of 1/2 to 1 fluid ounce per gal of water (3-6 pints/100 gal). One tablespoon equals 1/2 fluid ounce. Treat when insects appear. Use the higher rate for heavy infestations. For improved knockdown of heavy infestations, apply as a tank mix or separate spray with a pyrethroid or other fast acting material. Repeat applications as necessary at 21 - 28 day intervals or earlier depending on pest response and watering practices.

**For Foliar Application:** Apply Knox Out NL as a full coverage spray until drip for the control or suppression of the following stem and foliage insects: Aphids, Leafminers, Mealybugs (Citrus, Stem and Root), Mites, Scale insects, Thrips and White Fly. A nonionic spreader may be used on hard to wet surfaces and to reduce the appearance of residue. A sticking agent is not recommended as it may interfere with product release characteristics and reduce effectiveness.

**For Soil Application:** Apply Knox Out NL as a directed heavy spray or light drench into the upper 1 inch of soil or growing media for the control of the following pests: Fungus Gnat and Shore Fly larvae.

**Ornamental Plants** - For use on herbaceous and woody ornamental plants, annual and perennial flowering plants, such as but not limited to:

African Violets - Saintpaulia spp.  
 Agapanthus spp.  
 Ageratum spp.  
 Almond (non-bearing) - Prunus spp.  
 Aluminum Plant - Pilea cadierei  
 Alyssum spp.  
 Arrowhead - Sagittaria spp.  
 Azalea - Rhododendron spp.  
 Baby's Breath Gyp - Gypsophila spp.  
 Balsam - Impatiens balsamina  
 Begonia spp.  
 Bird's Nest Fern - Asplenium nitus  
 Boston Fern - Nephrolepis exaltata  
 Bottlebrush - Callistemon spp.  
 Cactus - spp.  
 Camellia spp.  
 Carnation - Dianthus spp.  
 Cherry (non-bearing) - Prunus spp.  
 Chrysanthemum spp.  
 Cockscomb - Celosia spp.  
 Coleus spp.  
 Cotoneaster spp.  
 Crape Myrtle - Lagerstroemia indica

Fir - Abies spp.  
 Firethorn - Pyracantha spp.  
 Floss Flower - Ageratum conyzoides  
 Friendship Plant - Pilea involucrata  
 Gardenia spp.  
 Gazania spp.  
 Geranium spp.  
 Gladiolus spp.  
 Gold Dust - Acacia acinacea  
 Good Luck Plant  
 Holly - Ilex spp.  
 Honeylocust - Gleditsia spp.  
 Honeysuckle - Lonicera spp.  
 Hydrangea spp.  
 Impatiens spp.  
 Ivy - Hedera spp.  
 Jade Plant - Crassula argentea  
 Japanese Aralia - Dizygotheca spp.  
 Juniper - Juniperus spp.  
 Leucothoe spp.  
 Lilac - Syringa spp.  
 Lily - Lilium spp.  
 Malus spp.

Croton - *Codiaeum variegatum*  
 Leyland Cypress - *Cupressus leylandii*  
 Daisy - *Bellis perennis*  
 Dogwood - *Cornus* spp.  
 Escallonia spp.  
 Euonymus spp.  
 Pachysandra spp.  
 Pansy - *Vilosa* spp.  
 Peach (non-bearing) - *Prunus* spp.  
 Periwinkle - *Vinca* spp.  
 Petunia spp.  
 Photinia spp.  
 Pine - *Pinus* spp.  
 Pineapple Guava - *Psidium guajava*  
 Pittosporum spp.  
 Plane tree - *Platanus occidentalis*  
 Podocarpus spp.  
 Poinsettia - *Euphorbia pulcherrima*  
 Pot Marigold - *Calendula* spp.  
 Primrose - *Primula* spp.  
 Privet - *Ligustrum* spp.  
 Raphiolepis spp.  
 Rhododendron spp.  
 Rose - *Rosa* spp.

Maranta spp.  
 Marigold - *Tagetes* spp.  
 Nandina spp.  
 Oleander - *Nerium oleander*  
 Orchid  
 Osmanthus spp.  
 Scarlet Sage - *Salvia* spp.  
 Sedum spp.  
 Shasta Daisy - *Chrysanthemum maximum*  
 Snake Plant - *Sansevieria trifasciata*  
 Snapdragon - *Antirrhinum majus*  
 Spider Plant - *Chlorophytum comosum*  
 Spruce - *Picea* spp.  
 Star Jasmine - *Jasminum* spp.  
 Strawflower - *Acroclonium* spp.  
 Tahitian Bridal Veil - *Gibasis pellucida*  
 Velvet Plant - *Gynura aurantiaca*  
 Verbena spp.  
 Vinca spp.  
 Wandering Jew - *Tradescantia albiflora*  
 Wax Plant - *Hoya carnosus*  
 Yellowwood - *Cladrastis lutea*  
 Zinnia spp.

Knox Out NL has demonstrated excellent plant safety; however, all varieties of plants have not been fully tested. When treating large numbers of plants of a single variety, or when treating material not specifically listed above, spray a few plants and observe for phytotoxicity prior to full-scale application. Wait 5 - 7 days after treatment to evaluate trial results. Knox Out NL will not control some organophosphate resistant ornamental plant pests. Do not use on Bella Palm, *Dracaena*, *Hoya* (except as noted above), Maidenhair Fern, Neath, and Prayer Plant.

**Emergency Telephone Numbers**  
**CHEMTREC: (800) 424-9300**  
**MEDICAL: (303) 623-5716**  
**Rocky Mountain Poison Control Center**

#### **WARRANTY AND DISCLAIMER**

Cerexagri, Inc. 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. CEREXAGRI MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL CEREXAGRI 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.

Cerexagri 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 Cerexagri.

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