


4581-392

12-28-2006

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	<b>U.S. ENVIRONMENTAL PROTECTION AGENCY</b> <b>Office of Pesticide Programs</b> <b>Registration Division (7505P)</b> <b>Ariel Rios Building</b> <b>1200 Pennsylvania Ave., NW</b> <b>Washington, D.C. 20460</b>	EPA Reg. Number: <b>4581-392</b>	Date of Issuance: <b>DEC 28 2006</b>
	<b>NOTICE OF PESTICIDE:</b> <input type="checkbox"/> Registration <input checked="" type="checkbox"/> Reregistration (under FIFRA, as amended)	Term of Issuance: <b>Unconditional</b>	
		Name of Pesticide Product: <b>Knox Out NL</b>	
Name and Address of Registrant (include ZIP Code):  <b>Cerexagri, Inc.</b> <b>630 Freedom Business Center</b> <b>Suite 402</b> <b>King of Prussia, PA 19406</b>			
<b>Note:</b> Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.			
<p>On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.</p> <p>Based on your response to the Reregistration Eligibility Decision, EPA has reregistered the product listed above. This action is taken under the authority of section 4(g)(2)(C) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain the registration of your product.</p> <p>Generic data requirements that have been identified in the RED as confirmatory data for the active ingredient contained in the subject product will continue to be tracked and assessed in the Agency's continual reassessment of pesticides.</p> <p>The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable. A stamped copy of the label is enclosed for your records.</p> <p>You may distribute products bearing old labels/labeling for 12 months from receipt of this letter or your next printing of the label, which ever occurs first.</p>			
Signature of Approving Official:		Date:  <b>DEC 28 2006</b>	

**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.

**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.

**ACCEPTED**

**DEC 28 2006**

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. **4581-392**

**ACTIVE INGREDIENT:**

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

**INERT INGREDIENTS**.....77.0%

**TOTAL**.....100.0%

Knox Out NL contains 2 pounds diazinon per gallon. U.S. patents 3,429,827 and 3,577,515.

**Keep Out Of Reach Of Children**

**CAUTION**

**FIRST AID**

Contains an organophosphate that inhibits cholinesterase.

<b>If on skin or clothing</b>	<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>
<b>If swallowed</b>	<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>
<b>If in eyes</b>	<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>
<b>If inhaled</b>	<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.

**NOTE TO PHYSICIAN**

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.

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

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

**CAUTION**

Harmful if absorbed through skin. 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.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical resistant to this product are those made out of any waterproof material. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

Mixers, loaders, applicators, and other handlers using engineering controls must wear:

- Long-sleeved shirt and long pants,
- Shoes plus socks,
- Chemical-resistant gloves, if mixing or loading,
- Chemical-resistant apron, if mixing or loading

See engineering controls for additional requirements.

Handlers performing tasks, such as cleaning equipment or spill clean-up, for which engineering controls are not feasible must wear:

- Coveralls over long-sleeved shirt and long pants,
- Chemical-resistant gloves,
- Chemical-resistant footwear plus socks,
- Chemical-resistant apron, if exposed to the concentrate,
- A respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH-approved respirator with an organic vapor (OV) cartridge or canister with any N, R or P or HE prefilter.

**USER SAFETY RECOMMENDATIONS**

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

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.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**ENGINEERING CONTROLS**

Mixers and loaders must use a closed system that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides that provides dermal and inhalation protection [40 CFR 170.240(d)(4)], and must:

- Wear the personal protective equipment required for mixers/loaders using engineering controls;
- Wear protective eyewear, if the system operates under pressure; and
- Be provided and have immediately available for use in an emergency, such as a broken package, spill, or equipment breakdown, chemical-resistant footwear and the respirator specified in the PPE section of this labeling for handlers not using engineering controls.

Applicators using motorized ground equipment must use an enclosed cab that meets the definition in the Worker Protection Standard for Agricultural Pesticides [40 CFR 170.240(d)(5)] for dermal protection. In addition, applicators must:

- Wear personal protective equipment required in the PPE section of this labeling for handlers using engineering controls;
- *Either* wear the respirator specified for handlers not using engineering controls or use an enclosed cab that is declared in writing by the manufacturer or by a government agency to provide at least as much respiratory protection as the respirator specified for handlers not using engineering controls;
- Be provided, and have immediately available for use in an emergency when they must exit the cab in the treated area, coveralls, chemical-resistant footwear, and – if not already using one – the respirator specified for handlers not using engineering controls;
- Take off any PPE that was worn in the treated area before reentering the cab, and
- Store all such PPE in a chemical-resistant container, such as a plastic bag, to prevent contamination of the inside of the cab.

### 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, especially waterfowl. Keep out of lakes, streams, ponds, tidal marshes, and estuaries. Do not apply directly to water, 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 neighboring areas. 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. Do not contaminate water by cleaning of equipment or disposal of equipment wash water.

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

#### Shake Well Before Using

This is a Restricted Use Pesticide.

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.

**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). The REIs appear under the list of ornamental plants in the directions for use.

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 worn over long-sleeve shirt and long pants,
- Chemical-resistant gloves made of any waterproof material,
- Chemical-resistant footwear plus socks, and
- Chemical-resistant headgear, if overhead exposures.

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

**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 grown outdoors 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.

Aerial application is prohibited.

**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:** When spraying, wear the personal protective equipment (PPE) specified on this label. 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 3 to 4 pints per 100 gallons water per acre (0.75 to 1 lb a.i./A). 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. Make a maximum of one application per crop cycle.

**For Foliar Application:** Apply Knox Out NL as a full coverage spray 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. Aerial application is prohibited.

**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 nidus

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.

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*  
 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.

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.  
 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 - *Acroclinium* spp.  
 Tahitian Bridal Veil - *Gibasis pellucida*  
 Velvet Plant - *Gynura aurantiaca*  
 Verbena spp.  
 Vinca spp.  
 Wandering Jew - *Tradescantia albiflora*  
 Wax Plant - *Hoya carnosa*  
 Yellowwood - *Cladrastis lutea*  
 Zinnia spp.

The restricted-entry interval (REI) is 7 days for flowers and other commercial ornamentals grown for cutting.

The REI is 2 days for all other commercial ornamentals.

Application is permitted only on commercial ornamentals grown outdoors in nurseries.

The maximum application rate is 2 quarts of this product (1 lb a.i.) per acre.

Make a maximum of one application per crop cycle.



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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**

### **CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials, resistant strains or other influencing factors in the use of the product. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Cerexagri, Inc., Manufacturer and Seller harmless for any claims relating to such factors. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, CEREXAGRI, INC. AND MANUFACTURER MAKE NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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