

AFA - 1986

Raymond A. Cardona, Ph.D.  
Chemical Group  
Uniroyal, Inc.  
Crop Protection  
74 Amity Road  
Bethany, CT 06525

**BEST AVAILABLE COPY**

Dear Dr. Cardona:

Subject: **Indoxyl**  
EPA Registration No. 400-383  
Your letters dated November 5, 11, and 20, 1985

The comment referred to above, submitted in connection with the registration of Indoxyl under section 3(c)(7)(D) of the Federal Insecticide, Fungicide, and Plant Repellent Act (FIFRA), is hereby provided that you:

1. Submit the data and information required for registration/re-registration of Indoxyl under section 3(c)(5) when the Agency requests 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. On the basis of the toxicities of this product, the following changes should be made in precautionary labeling: Add "If inhaled" to "Harmful if swallowed." Also, add "Avoid breathing spray mist."
  - b. Label does not specify how often the application should be repeated. If use will result in repeated dermal exposure, a sensitization statement similar to one proposed on 400-383 label should be added.
  - c. Revise the Storage and Disposal statements in accordance with PR Notice 83-3.
3. We have reviewed the efficacy data (Accession Number 260535) and have determined that the effectiveness of Registration Number 400-383 is far from absolute. However, we will not request that you supply more definite product performance data at this time.

85134:Palmtater:CHI-11:MB:0:4/1/86:4/9/86:DKD:VO

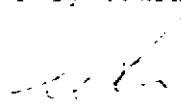
LYNN	▶
CLERK	▶
EPA	▶

- 4. Submit five (5) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration shall be subject to cancellation in accordance with 40 CFR section 155.106. Your release for shipment of the product herein is deemed to constitute acceptance of these conditions.

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

Sincerely yours,



William H. Miller  
 Product Manager (16)  
 Insecticide-Koonticide Branch  
 Registration Division (35-767C)

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

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear safety glasses. Harmful if swallowed. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

**DIRECTIONS FOR USE**

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

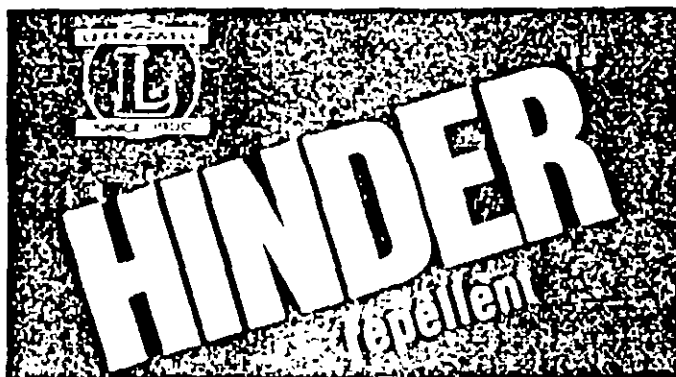
**STORAGE AND DISPOSAL**

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

Pesticide Disposal: Pesticide, spray mixture or residue that cannot be used according to label instructions must be disposed of according to Federal, State or local procedures under the Resource Conservation and Recovery Act.

Container Disposal: Triple rinse (or equivalent) and offer for recycling or reconditioning, or dispose of in a sanitary landfill, or by other approved State and local procedures.

General: Consult Federal, State or Local disposal authorities for approved alternative procedures.



**ACTIVE INGREDIENTS:**

Ammonium Soaps of Higher Fatty Acids ..... 15%

**INERT INGREDIENTS:**

..... 85%

**KEEP OUT OF REACH OF CHILDREN  
HARMFUL IF SWALLOWED**

**WARNING**

**Statement of Practical Treatment**

**If in eyes:** Flush with plenty of water. Get medical attention.

**If swallowed:** Drink promptly a large quantity of milk, egg whites, gelatin solution, or, if these are not available, drink large quantities of water. Avoid alcohol.

**LEFFINGWELL**

A Business of **UNIROYAL CHEMICAL** — Division of UNIROYAL, Inc.

111 SOUTH BERRY STREET, P.O. BOX 1880, BREA, CA 92621

\*Trademark of UNIROYAL, Inc.  
UNIROYAL CHEMICAL — Division of UNIROYAL, Inc.  
NAUGATUCK, CONNECTICUT 06770  
EPA Reg. No. 400-383  
EPA Est. No. 7874-CA-1

Lot No.

NET CONTENTS:

## FOR REPELLING DEER AND RABBITS

FROM FRUIT, TREES, AND VINES, VEGETABLES AND FIELD CROPS, ORNAMENTALS, NURSERY STOCK, FORAGE CROPS, GRAIN CROPS AND NON-CROP AREAS.

### SHAKE WELL BEFORE USING

FOR BEST RESULTS, APPLY BEFORE THE ANIMALS START EATING THE PLANTS.

### HOW TO APPLY:

**BY SPRAYING:** HINDER may be applied by conventional spraying equipment ranging from commercial power sprays down to small hand sprayers. May also be applied by air except as noted.

**BY PAINTING:** HINDER may also be applied by painting the bark of trees and shrubs to prevent girdling by rabbits.

### SUGGESTED USES

**FOR FRUIT TREES AND VINES:** For application by ground rig, mix 2 to 5 gallons of HINDER with 100 gallons of water. To repel deer, spray as needed when first evidence of deer feeding is observed. For vines and trees up to 6 ft. in height, spray to give full coverage. For trees over 6 ft. high, spray to give full coverage to the lower branches and outer foliage up to a height of 6 ft. above the ground. For aerial application, apply 3-5 gallons of HINDER in 5-10 gallons of water per acre.

Where feeding pressure from deer is particularly intense, deer protection may be enhanced by providing a secondary feed source such as hay just outside the treated area at the time of treatment.

To repel rabbits, spray trunks thoroughly. To apply by painting, mix equal amounts of HINDER and water and apply by brush to trunks to the maximum height rabbits might reach. For aerial application on vines only, apply 3-5 gallons of HINDER in 5-10 gallons of water per acre. Do not use aerial application to repel rabbits from fruit trees.

**FOR VEGETABLE AND FIELD CROPS:** Add 2 to 4 gallons of HINDER to 100 gallons of water. Apply at the rate of 50 to 100 gallons of spray solution per acre. For Home Gardens, mix 1/2 to 1 quart of HINDER to 5 gallons of water and apply in a light coverage spray.

**FOR FORAGE AND GRAIN CROPS AND NON-CROP AREAS:** Mix 3 to 5 gallons of HINDER with 100 gallons of water. Apply with thorough coverage to a strip 8 to 15 feet wide completely around the borders of the area to be protected.

**FOR NURSERY STOCK AND ORNAMENTALS:** Add 2 to 4 gallons of HINDER to 100 gallons of water. Apply as needed in a full coverage spray. To protect ornamental plants in yards and gardens, mix 1 pint to 1 quart of HINDER with 5 gallons of water and apply in a full coverage spray. To protect trees and shrubs from rabbits, spray trunks thoroughly. To apply by painting, mix equal volumes of HINDER and water and apply by brush to trunks to the maximum height rabbits might reach. AVOID overhead irrigation for at least 24 hours after application.

**AERIAL APPLICATION:** Apply 3-5 gallons per acre in 5-10 gallons of water. Do not use aerial application to repel rabbits from fruit trees.

**NOTE: RETREATMENT MAY BE NECESSARY AFTER HEAVY RAINFALL.**

Not compatible with most strongly ionized metallic salts such as zinc sulfate and manganese sulfate.

**A SPREADER AND DEPOSIT BUILDER FOR ALL TYPES OF FOLIAGE**

### SUGGESTED USES

For use with Minor Element Sprays, Sunburn Treatments, and Whitewash Application on trees; Whitewash for Leafhopper Control on Citrus. Add 1/3 to 1/2 gallon per 100 gallons of spray. Add AFTER the other materials and AFTER tanks are 3/4 full. With metallic salts do not add spreader until after the salts have been neutralized with lime or ash.

For use with insecticides and Acaricides, 1/3 to 1/2 gallon per 100 gallons to improve deposit and spread over waxy leaf surfaces.

**COMPATIBILITY:** HINDER is compatible with most commonly used organic phosphates, carbonates, and chlorides by deposit, emulsion, and spray materials with herbicides, insecticides, and fungicides. It is not compatible with metallic salts such as zinc sulfate, manganese sulfate, iron sulfates. In practice, with the usual spray materials or with the usual Seta Spray products.

**IMPORTANT NOTICE —** Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with the directions and instructions specified on the label under normal conditions of use, but neither the warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

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