

US ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (TS-767)
WASHINGTON, DC 20460

EPA REGISTRATION NO.

352-545

DATE OF ISSUANCE

APR 4 1990

TERM OF ISSUANCE

Conditional

NAME OF PESTICIDE PRODUCT

DuPont Dowling Herbicide

NOTICE OF PESTICIDE: REGISTRATION
 REREGISTRATION

(Under the Federal Insecticide, Fungicide
and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

E. I. DuPont de Nemours & Company, Inc.,
Agricultural Products Dept.,
P.O. Box 99000
Wilmington, DE 19880-0000

PM 23
Pg 1 of 2
352-545

NOTE: Changes in labeling formula 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 U.S. EPA registration number.

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.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this 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.

Section 2(e) (7) (A) provides that you:

1. Submit and/or cite all data required for registration or reregistration of your product under FIFRA sec. (c) (5) and that the Agency requires all registrants of similar products to submit and cite.

2. Add the phrase, "EPA Registration No. 352-545" to your label before you release the product for shipment.

3. Note that the 12 month storage and stability test must be received by the Agency within 18 months after receiving this registration.

Labeling:

a. We find these studies acceptable. An acute inhalation study must be submitted within 6 months after this registration notice. A memo by Dr. Stanley Cross on inhalation toxicity testing is enclosed for your reference.

b. The signal word is Caution.

c. Revise the Precautionary Statements to read as follows:
Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin or clothing. Avoid breathing spray mist, wash thoroughly with soap and water after handling.

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

Jeanne J. Miller

DATE

4-4-90

- d. Environmental Hazards Section should read as follows:
Do not contaminate water when disposing of equipment washwaters.
The Statement Of Practical Treatment are acceptable.
- e. Container Disposal Statement should read as follows:
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.
- 5. 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 will be subject to cancellation in accordance with FIFRA sec. 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.

Sincerely yours,

Joanne I. Miller
Acting Product Manager (23)
Fungicide-Herbicide Branch
Registration Division (H7505C)

GENERAL INFORMATION

"Londax" Herbicide is a granular formulation for selective preemergence and early postemergence weed control after establishment of the permanent flood. When applied according to the instructions on the label, it will control many broadleaf and sedge weeds. Best control will be achieved when "Londax" is applied to very young emerging and actively growing weeds (less than 3 leaves). Degree and duration of control may depend on: use rate, weed spectrum and infestation intensity, weed size at application time, growing conditions at and following time of treatment, soil pH, texture and organic matter, and water management.

Because most crops other than rice are highly sensitive to "Londax", all direct or indirect (such as spray drift) contact to crops or land scheduled to be planted to crops other than rice should be avoided as injury may result.

BIOLOGICAL ACTIVITY

"Londax" rapidly inhibits growth of susceptible weeds. Following preemergence to early postemergence applications (to weeds), leaves of susceptible plants will appear chlorotic in 3 to 5 days and necrosis of the growing point will subsequently occur. Susceptible plants are controlled in 7 to 21 days, depending on species, as evidenced by complete necrosis of the leaf tissue and growing point. In some cases, affected plants will be stunted and remain green, but are not competitive with the crop.

The herbicidal action of "Londax" may be influenced by temperature. Expression of herbicide symptoms is accelerated at warmer temperatures and may be delayed when air or water temperatures are below 65 degrees F. Under cool conditions, the appearance of chlorosis and eventual necrosis in susceptible plants may be delayed beyond 5 days. Occasional temporary chlorosis and/or growth retardation of rice may occur following "Londax" application. These symptoms are accentuated at high ambient temperatures and/or cold water temperatures. These symptoms are normally transient and disappear within 2 to 3 weeks after application.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. This labeling must be in possession of the user at the time of pesticide application.

APPLICATION RECOMMENDATION-WATER SEEDED RICE

"Londax G" must be applied after establishment of the permanent flood directly into standing water. Water level at the time of application should be high enough so that the soil is completely covered with water (preferably at least 3 inches with no exposed soil). Product performance will be reduced in areas where soil is not covered with water.

For best results, "Londax G" should be applied preemergence to early postemergence to submerged weeds and post emergence to rice from the 1- to 3-leaf stage. Best control will be achieved when "Londax" is applied to very young emerging and actively growing weeds (less than 3 leaves) after establishment of the permanent flood. Target weeds' foliage must remain covered with water at time of application and during the water holding period.

"Londax G" can be applied to rice beyond the 3-leaf stage, but late applications should be targeted to the preemergence to early postemergence stage of weeds.

At the time of application and for the following 5 days, water on it should be held static. Hold water static on the field for a minimum of 5 days after application. Holding water on the field for more than 5 days will enhance product performance. Failure to hold water for the 5-day minimum will decrease product performance.

Note: Static water is defined as not allowing water to exit the field. Water may be introduced into the field to maintain flood level, but this may result in reduced control in areas around the water inlet(s).

Water level at the time of application and within 5 days of application should be high enough so that the soil is completely covered with water (preferably at least 3 inches with no exposed soil). Product performance will be reduced in areas where soil is not covered with water. Target weeds' foliage must remain covered with water at time of application and during the water holding period.

Rainfall sufficient to cause water flow off the field may reduce performance if it occurs within 5 days of application.

Introduction of water may reduce herbicidal efficacy in areas adjacent to water inlet sites.

WEEDS

"Londax" effectively controls the following weeds when used according to instructions on the label:

Blunt Spikerush: Eleocharis obtusa
California Arrowhead: Sagittaria montevidensis calycina
Ducksalad: Heteranthera limosa
Eisen waterhemp: Bacopa eisenii
Purple ammannia: Ammannia coccinea
Redstem: Ammannia auriculata
Roughseed bulrush: Scirpus mucronatus
Southern naiad: Najas quadalupensis
Smallflower umbrellaplant: Cyperus difformis
Water plantain (seedling) Alisma spp.
Waterwort: Elatine spp.

USE RATE: Apply 20 pounds per acre per season. Twenty pounds of "Londax" G per acre is equivalent to 1.0 oz of active ingredient per acre.

EQUIPMENT CLEANUP

Important: Before applying "Londax", follow the cleanup procedures specified on the label for the product previously applied. Then use the following cleanout procedure for application equipment, and any other equipment exposed to "Londax" granules:

1. Steam cleanout tanks using a nonchlorine based detergent taking care to remove all physical residues.
2. Thoroughly rinse tanks with clean water.
3. Partially fill the tank with clean water and add Nutra-sol(?) at a rate of 32 ounces per 100 gallons of water. Complete filling the tank to overflowing with clean water. Allow to sit for 15 minutes with agitation (and recirculation, if possible). Drain the equipment.
4. Thoroughly rinse the tank with clean water to remove Nutra-sol

- 5. Follow label directions for the product previously sprayed for rinseate disposal.

After using "Londax" and prior to spraying crops other than rice, use the following procedure to clean the tanks and any other equipment exposed to "Londax":

- 1. Steam cleanout tank using a nonchlorine based detergent taking care to remove all physical residues.
- 2. Thoroughly rinse tanks and other equipment with clean water.
- 3. Partially fill tank with clean water and then add Nutra-sol at a rate of 32 ounces of product per 100 gallons of water. Complete filling the tank to overflowing with clean water and then allow to sit for 15 minutes with agitation (and recirculation, if possible). Drain the solution from the equipment.
- 4. Rinse tanks, hoses and nozzles with clean water to remove Nutra-sol.
- 5. Partially fill tank with clean water, then add 1 gallon of 28% ammonia (or equivalent amounts of more dilute ammonia) per 100 gallons of water. Complete filling the tank to overflowing with clean water and allow to sit for 10 minutes with agitation (and recirculation if possible), then drain.
- 6. Repeat Step 5.
- 7. Rinse tanks and other equipment to remove all traces of ammonia
- 8. The rinseate may be disposed of on site or at an approved waste disposal facility.

RESTRICTIONS

Do not apply more than 1 oz. active ingredient "Londax" per acre per season.

Do not graze treated fields or feed treated forage within 80 days of last application.

Do not apply "Londax" within 80 days of harvest.

Do not apply "Londax" in areas under stress from abnormal weather or growing conditions, drought, disease, insect or prior herbicide injury, as crop injury may occur. Severe stress, drought, disease or insect damage following application may also result in crop injury.

Water drained directly from treated fields must not be used to irrigate other crops.

Do not mix "Londax" with any additives except as directed by this label.

Do not use "Londax" on wild rice (*Zizania aquatica*).

Do not rotate to crops other than rice for 120 days following application.

STORAGE AND DISPOSAL

STORAGE: Store product in original container only, away from other pesticides, fertilizer, food or feed. Not for use or storage in or around the home. Keep container closed.

PRODUCT DISPOSAL: Do not contaminate water, food or feed by disposal. Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Emptied paper (or cardboard) containers may be burned if allowed by state and local authorities. If burned, stay out of smoke.

[1] Londax - Registered trademark of E. I. Du Pont de Nemours & Co. (Inc).

[2] Nutra-Sol is a product of Thomas G. Kilfoil Company, Inc., San Bruno, California.

NOTICE TO BUYER Purchase of this material does not confer any rights under patents of countries outside the United States.

NOTICE OF WARRANTY

Du Pont warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for the purposes stated on such label only when used in accordance with the directions under normal use conditions. 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 weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Du Pont. In no case shall Du Pont be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer. DU PONT MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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