

pm 23

352-506

Page 1 of 18
H.



Londax®

herbicide

ACCEPTED

MAY 4 1995

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticides
registered under
EPA Reg. No. 352-506



®

"..... A Growing Partnership With Nature"

1/15

LONDAX HIGHLIGHTS

- LONDAX tank mixes with labeled propanil-containing herbicides provide improved control of many broadleaf weeds and sedges when applied pre-flood.
- LONDAX provides selective preemergence and postemergence weed control in rice when applied at permanent flood.
- LONDAX may be applied as a wet spray (pre-flood or post-flood) or as LONDAX impregnated on dry fertilizer into the permanent flood.
- LONDAX may be applied by ground or air.
- Hold field flood water static for at least 7 days after application of LONDAX.
- After LONDAX is used, and prior to spraying crops other than rice, follow equipment cleanup procedures. See Sprayer Cleanup.
- Consult label text for complete use instructions and precautions. Always read and follow label directions for proper use.

TABLE OF CONTENTS

Directions for Use	2
Agricultural Use Requirements	2
General Information	2
Environmental Conditions and Biological Activity	3
Weeds Controlled	3
Pre-flood Weeds	3
Submerged Weeds	3
Weeds Emerged Above The Water Surface	3
Resistant Weeds.....	4
Application Information	
Pre-flood	4
<i>LONDAX Plus Propanil</i> <i>-containing Herbicides</i>	4
<i>Spray Preparation</i>	4
<i>Application Timing</i>	4
<i>Pre-flood Application</i>	4
<i>Pre-flood Sequential Applications</i>	4
<i>Water Management</i>	4
<i>Spray Gallonage</i> <i>(Aerial or Ground Applied)</i>	4
Post Flood	4
<i>LONDAX Applied Alone</i>	4
<i>Submerged Weeds</i>	4
<i>Emerged Weeds</i>	5
<i>Water Management</i>	5
<i>Spray Gallonage</i> <i>(Aerial or Ground Applied)</i>	5
<i>Spray Tank Preparation</i>	5
<i>Spray Mixture Preparation</i>	5
Dry Fertilizer Impregnation	5
<i>Preparation</i>	5
<i>Application</i>	5
Other LONDAX Combinations	5
Sprayer Cleanup	6
Spray Drift	6
Important Precautions	7
Storage and Disposal	7
Notice to Buyer	7
Notice of Warranty	7

3 9 18



LONDAX® HERBICIDE

FOR USE ON RICE IN THE STATES OF ARKANSAS, LOUISIANA, MISSISSIPPI, MISSOURI, AND TEXAS

DRY FLOWABLE

ACTIVE INGREDIENT	BY WEIGHT
Methyl 2-[[[(4,6-dimethoxypyrimidin-2-yl) amino]-carbonyl]amino]sulfonyl methyl]benzoate	60%
INERT INGREDIENTS	40%
TOTAL	100%

EPA Reg. No. 352-506

U.S. Pat. 4,420,325

KEEP OUT OF REACH OF CHILDREN WARNING AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

STATEMENT OF PRACTICAL TREATMENT

If in eyes, immediately flush with plenty of water. Get medical attention.

If on skin, wash with plenty of soap and water. Get medical attention if irritation persists.

If swallowed, call a physician or poison control center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with fingers.

Do not induce vomiting or give anything by mouth to an unconscious person.

For medical emergencies involving this product, call toll free: 1-800-441-3637.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING ! CAUSES EYE IRRITATION.

Do not get in eyes, on skin or clothing. Avoid breathing spray mist. Harmful if swallowed.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

Long-sleeved shirt and long pants.

Waterproof gloves.

Shoes plus socks.

Protective eyewear.

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

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, except as specified on this label for use in rice. Do not contaminate water when disposing of equipment washwaters.

IMPORTANT

Injury to or loss of desirable trees or vegetation may result from failure to observe the following:

Do not apply or drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots.

Do not use on lawns, walks, driveways, tennis courts, or similar areas.

Prevent drift of spray to desirable plants.

Keep from contact with fertilizers, insecticides, fungicides, and seeds during storage.

Injury to or loss of subsequently sprayed crops may result from failure to observe the following procedures:

LONDAX must be cleaned from application equipment prior to spraying crops other than rice, according to cleanup procedures described in the Sprayer Cleanup section of this label.

Injury to or loss of adjacent sensitive crops and vegetation may result from failure to observe the following:

Avoid all direct or indirect (such as spray drift) contact with crops other than rice or land scheduled to be planted with crops other than rice because most crops other than rice are highly sensitive to LONDAX.

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) 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 24 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.
- Protective eyewear.

This labeling must be in possession of the user at the time of pesticide application.

LONDAX should only be used in accordance with recommendations on this label. DuPont will not be responsible for losses or damages resulting from the use of this product in any manner not specifically recommended by DuPont. User assumes all risks associated with such nonrecommended use.

GENERAL INFORMATION

DuPont LONDAX® Herbicide is a dry flowable formulation that is used for selective preemergent and postemergent weed control in rice. LONDAX may be applied as a water-mixed spray to water- or dry-seeded rice. In addition, LONDAX may be applied to water-seeded rice as LONDAX-impregnated fertilizer granules.

When applied according to label directions, LONDAX effectively controls many annual and perennial broadleaves and sedges. The best control is achieved when LONDAX is applied to very young emerging and actively growing weeds (fewer than 3 leaves). The degree and duration of control may depend on the following:

- use rate
- weed spectrum and infestation intensity
- weed size at application
- growing conditions at and following treatment
- soil pH, texture, and organic matter content
- water management

ENVIRONMENTAL CONDITIONS AND BIOLOGICAL ACTIVITY

LONDAX rapidly inhibits the growth of susceptible broadleaf weeds and sedges. Three to five days after application to weeds, leaves of susceptible plants appear chlorotic, and the growing point subsequently dies. Susceptible plants are controlled in 7 to 21 days depending on the species. In some cases, affected plants remain green but are stunted and are not competitive with the crop.

The herbicidal action of LONDAX may be influenced by temperature. At warmer temperatures, expression of herbicide symptoms is accelerated; at cooler temperatures (when air or water temperatures are below 70 °F), expression of herbicide symptoms may be delayed beyond 5 days.

Occasionally, treated rice may suffer temporary chlorosis and/or growth retardation after treatment with LONDAX. These symptoms, which intensify in cold water and at high ambient temperatures, are normally temporary and disappear within 2 to 3 weeks after application.

WEEDS CONTROLLED

PREFLOOD WEEDS

LONDAX may be applied as a tank mix with propanil-containing rice herbicides. See **LONDAX Plus Propanil-containing Herbicides** for more information. The combination of LONDAX and propanil-containing rice herbicides used in pre-flood and pre-flood postemergence sequential applications effectively controls the following weeds when used according to label directions:

Common Name	Scientific Name	Weed Height (inches)
Cocklebur	<i>Xanthium spinosum</i>	2-6
Eclipta	<i>Eclipta alba</i>	2-8
Gooseweed	<i>Sphenoclea zeylanica</i>	2-10
Hemp sesbania (coffee bean)	<i>Sesbania exaltata</i>	2-8
Mexicanweed	<i>Cyperonia castanaefolia</i>	2-6
Morningglory (annual)		
Entireleaf	<i>Ipomea hederacea</i> *	2-7
Ivyleaf	<i>Ipomea hederacea</i>	2-7
Palmleaf	<i>Ipomea wrightii</i>	2-7
Pitted	<i>Ipomea lacunosa</i>	2-7
Northern jointvetch (curly indigo)	<i>Aeschynomene virginica</i>	2-4
Pennsylvania smartweed	<i>Polygonum pennsylvanicum</i>	2-5
Redstem*	<i>Ammannia auriculata</i>	2-8
Rice flatsedge	<i>Cyperus iria</i>	3-10
Texasweed	<i>Cyperonia palustris</i>	2-6
Yellow nutsedge	<i>Cyperus esculentus</i>	3-10

* *intergruscula* variet.

* Naturally occurring resistant biotypes of this weed are known to exist. LONDAX will not control these resistant biotypes. See **Resistant Weeds**.

SUBMERGED WEEDS

LONDAX may be applied to control certain weeds that are submerged below the water surface. See **Application Timing-Submerged Weeds** for more information. LONDAX effectively controls the following submerged weeds when used according to label directions:

Common Name	Scientific Name
Annual arrowhead spp.*	<i>Sagittaria spp.</i>
Blunt Spikerush	<i>Eleocharis obtusa</i>
Dayflower	<i>Commelina communis</i>
Ducksalad	<i>Heteranthera limosa</i>
Eclipta	<i>Eclipta alba</i>
Eisen waterhyssop	<i>Bacopa eisenii</i>
Falsepimpernel	<i>Lindernia spp.</i>
Gooseweed	<i>Sphenoclea zeylanica</i>
Mexicanweed	<i>Cyperonia castanaefolia</i>
Pickerelweed	<i>Pontederia cordata</i>
Purple ammannia*	<i>Ammannia coccinea</i>
Redstem*	<i>Ammannia auriculata</i>
Rice flatsedge	<i>Cyperus iria</i>
Roughseed bulrush*	<i>Scirpus mucronatus</i>
Smallflower umbrellaplant*	<i>Cyperus difformis</i>
Southern naiad	<i>Najas guadalupensis</i>
Texasweed	<i>Cyperonia palustris</i>
Water plantain (seedling)	<i>Alisma spp.</i>
Waterwort	<i>Elatine spp.</i>
Yellow nutsedge	<i>Cyperus esculentus</i>

* Naturally occurring resistant biotypes of this weed are known to exist. LONDAX will not control these resistant biotypes. See **Resistant Weeds**.

NOTE: LONDAX will result in marked reduction in growth and vigor (stunting) of Alligatorweed (*Alternanthera philoxeroides*).

WEEDS EMERGED ABOVE THE WATER SURFACE

LONDAX may be applied to control certain weeds that are emerged above the water surface. See **Application Timing-Emerged Weeds** for more information. LONDAX effectively controls the following emerged weeds when used according to label directions:

Common Name	Scientific Name	Weed Height (inches)
Annual arrowhead spp.*	<i>Sagittaria spp.</i>	4-10
Eclipta	<i>Eclipta alba</i>	4-7
Gooseweed	<i>Sphenoclea zeylanica</i>	4-8
Mexicanweed	<i>Cyperonia castanaefolia</i>	4-6
Pickerelweed	<i>Pontederia cordata</i>	4-8
Redstem*	<i>Ammannia auriculata</i>	4-8
Rice flatsedge	<i>Cyperus iria</i>	5-8
Texasweed	<i>Cyperonia palustris</i>	2-6
Yellow nutsedge	<i>Cyperus esculentus</i>	5-8

* Naturally occurring resistant biotypes of this weed are known to exist. LONDAX will not control these resistant biotypes. See **Resistant Weeds**.

Weeds Suppressed*

Common Name	Scientific Name	Weed Height (inches)
Hemp sesbania	<i>Sesbania exaltata</i>	4-10
Northern jointvetch	<i>Aeschynomene virginica</i>	4-10

For best results, use a minimum of 1.25 ounces per acre.

* Weed suppression is a visual reduction in weed competition (reduced population and/or vigor) as compared to an untreated check. The degree of control will vary with the rate used, size of weeds treated, crop competition, and environmental conditions following treatment.

RESISTANT WEEDS

Biotypes of certain weeds listed on this label are resistant to LONDAX and other herbicides with the same mode of action, even at exaggerated application rates. Biotypes are naturally occurring individuals of a species identical in appearance but with slightly different genetic compositions; the mode of action of an herbicide is the chemical interaction that interrupts a biological process necessary for plant growth and development.

If weed control is unsatisfactory, it may be necessary to respray problem areas using a product with a different mode of action, such as postemergence broadleaf and/or sedge herbicides. Consult your Ag dealer, consultant, applicator, and/or appropriate state agricultural extension service representative for specific alternative herbicide recommendations available in your area.

APPLICATION INFORMATION

PREFLOOD

LONDAX Plus Propanil-containing Herbicides

LONDAX may be applied as a tank mix with labeled propanil-containing rice herbicides (such as Arrosolo[®]) to provide improved control of certain broadleaf weeds and sedges when used as pre-flood or pre-flood sequential postemergence applications. For information on preparing the spray tank for application, see **Spray Tank Preparation**.

Observe all applicable directions, restrictions (including water-holding requirements and the use of spray adjuvants), and precautions on the propanil-containing herbicide labels. Follow the most restrictive directions from either the LONDAX label or the tank mix partner. Weed control may be reduced if rainfall occurs within 4 hours of application of a LONDAX/propanil tank mix.

Spray Preparation

Thoroughly mix LONDAX with clean water before adding any other material (i.e., tank mix partner, antidrift agent). To ensure tank mix compatibility, test the desired mixture prior to use.

To ensure uniform mixing and application, agitate the mixture before application. If the mixture is not sprayed immediately after agitation, re-agitate it before application. Always apply LONDAX spray preparations within 24 hours of product mixing, or the product may degrade.

When tank mixing LONDAX with dry flowable formulations of propanil, the use of a nonionic surfactant (minimum 80% active ingredient) at 0.25% v/v (1 qt per 100 gal), or a crop oil concentrate at 1% v/v (1 gal per 100 gal) is recommended, unless otherwise specified on the propanil label.

Application Timing

Preflood Application

Apply LONDAX (0.75 to 1.0 oz per acre) in combination with propanil or "Arrosolo" (3 to 4 qt per acre) 1-7 days prior to establishment of the permanent flood. Use a minimum spray volume of 10 gal of water per acre to ensure thorough coverage of the weeds. Weeds should be actively growing at the time of application.

Preflood Sequential Applications

In the event of severe weed infestations or less than optimal conditions (such as cool, dry weather, poor crop establishment, or slow crop growth), make sequential applications of LONDAX (0.50 to 0.75 oz per acre) in combination with propanil or "Arrosolo" (3 to 4 qt per acre). Make the first application when broadleaf weeds are in the cotyledon to 4-leaf stage and the sedges are 3" to 6" tall. Make the second application, if needed, 1 to 7 days prior to establishment of the permanent flood.

NOTE: To avoid crop injury, refer to the propanil label for further restrictions and the proper timing of the first application.

Water Management

For the best weed control, establish the permanent flood as soon as possible (within 7 days of application) after the last application of LONDAX/propanil combinations. If flushing is necessary prior to establishment of the permanent flood, apply LONDAX/propanil combinations after the flush but prior to the establishment of the permanent flood.

Loss of the permanent flood following applications of LONDAX/propanil combinations may result in poor performance due to regrowth of treated plants or reinfestation by newly germinated weeds.

Runoff caused by rainfall, overflow, levee breach, seepage, or introduction of new water soon after treatment may reduce product performance.

Spray Gallonage (Aerial or Ground Applied)

For both pre-flood and pre-flood sequential applications of LONDAX/propanil combinations, use at least 10 gal of water per acre.

APPLICATION INFORMATION

POST FLOOD

LONDAX Applied Alone

To control both submerged and emerged weeds, apply LONDAX at 1 to 1-2/3 oz per acre per year.

For applications to emerged weeds, combine LONDAX with a nonionic surfactant (minimum 80% active ingredient) at 0.25% v/v (1 qt per 100 gal), or a crop oil concentrate at 1% v/v (1 gal per 100 gal).

For both submerged and emerged weeds, use the higher rate where weed density is high.

NOTE: Alligatorweed (runners under 12") shows a marked reduction in growth and vigor when LONDAX is applied at a rate of 1-2/3 oz. per acre.

Submerged Weeds

For best results, LONDAX should be applied to submerged weeds from preemergence to early postemergence and to rice at the 1- to 3-leaf stage. The best control is achieved when LONDAX is applied to very young emerging and actively growing weeds (fewer than 3 leaves).

NOTE: For optimum control of Ducksalad (*Heteranthera limosa*) in dry-seeded rice, apply LONDAX to weeds no larger than 1 true leaf.

Emerged Weeds

LONDAX may be applied to emerged weeds after the establishment of the permanent flood. For best results, application timing should be based on the size of the weeds present. Weeds should have 3 to 4 leaves or extend 3" to 4" above the water surface at application. Refer to the **Weeds Controlled-Weeds Emerged above the Water Surface** table for species and maximum weed size controlled.

CAUTION: Do not apply LONDAX to control emerged weeds if rainfall is expected within 4 hours after application.

Water Management

At application, and for at least 7 days following application, the soil should be completely covered with at least 3" of water that is held static (water that remains in individual paddies). For the best weed control, LONDAX should be applied when the flood is to be held for a minimum of 2 to 3 weeks or after the establishment of the permanent flood. For submerged weeds, foliage of target weeds must remain covered with static water at application and during the water-holding period. LONDAX efficacy will be reduced in areas where soil and weed foliage are not sufficiently covered.

Runoff caused by rainfall, overflow, levee breach, or seepage occurring within 7 days of application may reduce product performance.

The field may be irrigated after application to maintain the flood level, but this may also reduce weed control.

Spray Gallonage (Aerial or Ground Applied)

For submerged weeds, use at least 5 gal of water per acre.

For emerged weeds, use at least 10 gal of water per acre to assist penetration of the spray mixture through the rice canopy. Control of emerged weeds may not be successful unless sufficient spray contacts the emerged surface of the weeds.

Spray Tank Preparation

Spray equipment must be clean and free of deposits before using LONDAX. Deposits in spray equipment can trap LONDAX and inhibit cleanup of the spray equipment after use. Therefore, before spraying LONDAX, clean the equipment according to the cleanup procedures specified on the label of the product previously sprayed.

Spray Mixture Preparation

Thoroughly mix LONDAX with clean water (water that is free of sediment and agricultural chemicals) in the spray tank. Do not use water from paddies. Only approved drift control agents, e.g. Chemtrol, may be used with LONDAX. Do not use any other additives except as directed by this label.

To ensure uniform mixing and application, agitate the mixture before application. If the mixture is not sprayed immediately after agitation, reagitrate it before application. Always apply LONDAX spray preparations within 24 hours of product mixing, or the product may degrade. Do not store LONDAX in nurse tanks or any other tanks used to store or transport clean water. Install one-way valves (anti-siphoning devices) on lines and hoses of mixing/loading equipment to prevent contamination of nurse tanks or other clean water sources.

Mixing and application equipment exposed to LONDAX cannot be used for anything other than rice applications until it has been cleaned according to the procedures in the Sprayer Cleanup section of this label.

DRY FERTILIZER IMPREGNATION

In addition to its application as a water-mixed spray to water- or dry-seeded rice, LONDAX may be applied to water-seeded rice as LONDAX-impregnated fertilizer granules.

Preparation

Fertilizer should be impregnated with LONDAX only by properly equipped commercial fertilizer or chemical dealerships whose primary crop business is rice.

NOTE: Failure to thoroughly clean all traces of LONDAX from equipment used to mix or apply dry fertilizer for use on crops other than rice may result in crop injury.

Impregnate no more than 1-2/3 oz LONDAX on a minimum of 150 lb of dry fertilizer per acre.

To impregnate dry fertilizer with LONDAX, follow these steps:

1. Prepare a slurry using 1-2/3 oz LONDAX per pt of water. Do not exceed a slurry volume of 1 pt per 150 lb of fertilizer. Continuously agitate the mixture to keep LONDAX in suspension.
2. Mix the dry fertilizer and the LONDAX/water slurry in a closed rotary drum-type mixer, allowing sufficient time to ensure uniform coverage.
3. Place the delivery nozzle(s) inside the mixer, positioning them to provide uniform spray coverage of the tumbling fertilizer. Use LONDAX-impregnated dry fertilizer as soon as possible after blending.

Thoroughly clean blending and/or application equipment to remove all traces of LONDAX and LONDAX-impregnated fertilizer before using the equipment to mix or apply fertilizer to crops other than rice. See Sprayer Cleanup for more information.

NOTE: It is the responsibility of the individual and/or company selling the fertilizer/herbicide mixture to follow all state regulations relating to dry bulk fertilizer blending, registration, labeling, and application.

Application

For best results, apply LONDAX-impregnated dry fertilizer at the same timing as water-mixed sprays: at preemergence or early postemergence of submerged weeds. Rice should be at the 1-full-leaf stage of growth or larger. See **Application Information-Application Timing** for more information.

Spread the LONDAX-impregnated dry fertilizer uniformly by air with properly calibrated equipment.

NOTE: Correct water management during and after application is as important for LONDAX-impregnated dry fertilizer as for the water-mixed spray. See **Application Information-Water Management** for more information.

Other LONDAX Combinations

LONDAX may be used in conjunction with rice herbicides used for grass control, such as Ordram[®] and Bolero[®].

Observe all applicable directions, restrictions (including water holding requirements) and precautions on the "Ordram" and "Bolero" labels.

Hold water in LONDAX treated fields for a minimum of 7 days.

SPRAYER CLEANUP

Before using equipment exposed to LONDAX to treat another crop, clean the sprayer and any other equipment (loading hoses, batch tanks, etc.) using the following procedure:

1. Steam-clean tank using a nonchlorine-based detergent, taking care to remove all physical residues.
2. Thoroughly rinse sprayer, tanks, boom, and hoses with clean water (free of sediment and agricultural chemicals).
3. Fill the tank one-half full with clean water and add Nutra-sol[®] at 32 oz per 100 gal of water. Fill the tank to capacity with clean water. Flush the nozzles, boom, and hoses, and agitate (and recirculate, if possible) the sprayer for 15 minutes. Drain the equipment, taking care to flush the boom and hoses thoroughly.
4. Rinse tanks, hoses, and nozzles with clean water to remove "Nutra-sol".
5. Fill the tank one-half full with clean water and add 1 gal of 21% ammonia or 7 gal of 3% ammonia per 100 gal of water. Fill the tank to capacity with clean water. Flush the nozzles, boom, and hoses, and agitate (and recirculate, if possible) the sprayer for 15 minutes. Drain the equipment, taking care to flush the boom and hoses thoroughly.
6. Remove nozzles, screens, and strainers, and clean them separately.
7. Rinse tanks, booms, and hoses with clean water.
8. Repeat steps 5 and 7 an additional 3 times.
9. Rinse tanks, booms, and hoses to remove all traces of ammonia.
10. Dispose of the rinsate on site or at an approved waste disposal facility.

NOTE: When applying multiple loads of LONDAX several days in a row, the following procedure must be performed at the end of each day: partially fill the tank with fresh water, flush the boom and hoses, and allow to sit overnight.

CAUTION: Do not use chlorine bleach with ammonia. All traces of liquid fertilizer containing ammonia, ammonium nitrate or ammonium sulphate must be rinsed from the mixing and application equipment using water before adding chlorine bleach solution. Failure to do so will release a gas with a musty chlorine odor that can cause eye, nose, throat, and lung irritation. Do not clean equipment in an enclosed area.

Perform cleanup procedures on batch tanks and any other mixing equipment separately from aircraft hoppers. Take care to clean loading hoses and any other equipment or surfaces exposed to LONDAX.

SPRAY DRIFT MANAGEMENT

The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions.

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

IMPORTANCE OF DROPLET SIZE

The most effective way to reduce drift potential is to apply large droplets (>150 - 200 microns). The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. **APPLYING LARGER DROPLETS REDUCES DRIFT POTENTIAL, BUT WILL NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS!** See **Wind, Temperature and Humidity, and Temperature Inversions** sections of this label.

Controlling Droplet Size - General Techniques

- **Volume** - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** - Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. **WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.**
- **Nozzle Type** - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles.

Controlling Droplet Size - Aircraft

- **Number of Nozzles** - Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.
- **Nozzle Orientation** - Orienting nozzles so that the spray is emitted backwards, parallel to the airstream will produce larger droplets than other orientations.
- **Nozzle Type** - Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types.
- **Boom Length** - The boom length should not exceed 3/4 of the wing or rotor length - longer booms increase drift potential.
- **Application Height** - Application more than 10 ft above the canopy increases the potential for spray drift.

BOOM HEIGHT

Setting the boom at the lowest referenced height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. For ground equipment, the boom should remain level with the crop and have minimal bounce.

WIND

Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. **AVOID GUSTY OR WINDLESS CONDITIONS.**

Note: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, set up equipment to produce larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

AIR ASSISTED (AIR BLAST) FIELD CROP SPRAYERS

Air assisted field crop sprayers carry droplets to the target via a downward directed air stream. Some may reduce the potential for drift, but if a sprayer is unsuitable for the application and/or set up improperly, high drift potential can result. It is the responsibility of the applicator to determine that a sprayer is suitable for the intended application, is configured properly, and that drift is not occurring.

Note: Air assisted field sprayers can affect product performance by affecting spray coverage and canopy penetration. Consult the spray equipment section of this label to determine if use of an air assist sprayer is recommended

IMPORTANT PRECAUTIONS

- Do not apply this product through any type of irrigation system.
- Do not apply more than 1-2/3 oz LONDAX per acre per year.
- Do not graze treated fields or feed-treated forage within 80 days of the last application.
- Do not apply LONDAX within 80 days of harvest.
- Do not apply LONDAX to rice under stress from abnormal weather or growing conditions, drought, disease, or 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 spp.*).
- Do not rotate to crops other than rice for 120 days following application.
- Do not farm crayfish (crawfish) in treated fields.

STORAGE AND DISPOSAL

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

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

CONTAINER DISPOSAL: Triple-rinse (or equivalent) the container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities, by burning. If the containers are burned, stay out of smoke.

NOTICE TO BUYER

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

10 7 18

NOTICE OF WARRANTY

DuPont warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with 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 DuPont. In no case shall DuPont 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. DUPONT MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

- 1 "Arrosolo" is a registered trademark of Zeneca, Inc.,
Wilmington, DE.
- 2 "Ordram" is a registered trademark of Zeneca, Inc.,
Wilmington, DE.
- 3 "Bolero" is a registered trademark of Valent USA Corp.,
Walnut Creek, CA.
- 4 "Nutra-Sol" is a product of Thomas G. Kilfoil Company, Inc.,
San Bruno, CA.
- 5 "Chemtrol" is a product of Loveland Industries, Inc., Loveland, CO

NET WT. 20 oz

D- 184 110394

15

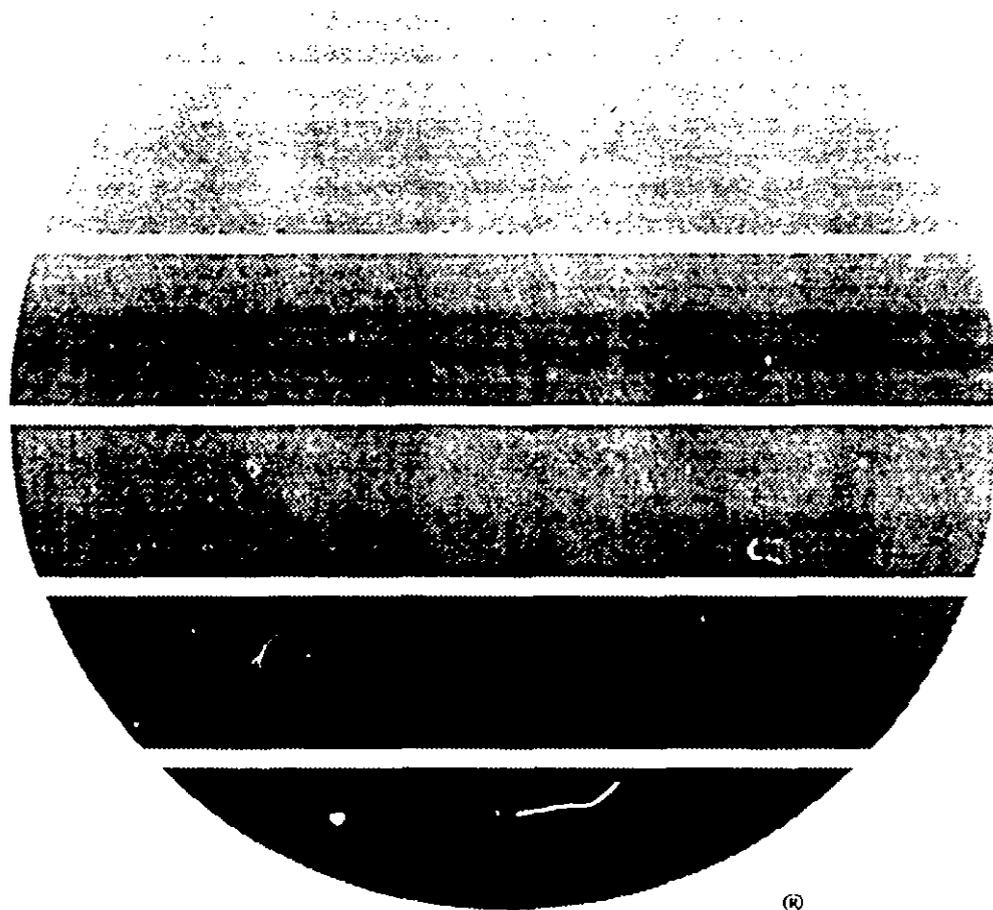
11 9 18
H-



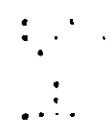
Londax®

herbicide

ACCEPTED
MAY 4 1995
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 350-500



"..... A Growing Partnership With Nature"



LONDAX HIGHLIGHTS

- LONDAX provides selective preemergence and postemergence weed control in rice.
- The use rate of LONDAX is 1-2/3 oz per acre.
- LONDAX may be applied by air (wet spray or dry application).
- For wet spray by air, apply in a minimum of 5 gal water.
- Hold field flood water static for at least 5 days after application.
- After LONDAX is used, and prior to spraying crops other than rice, follow equipment cleanup procedures. See Sprayer Cleanup.
- LONDAX is conveniently packaged in 8 x 16.6 oz containers per carton. One 16.6 oz container treats 10 acres.
- Consult label text for complete use instructions and precautions. Always read and follow label directions for proper use.

TABLE OF CONTENTS

Precautionary Statement 1

Directions for Use 2

General Information 2

 Environmental Conditions
 and Biological Activity 2

Weeds Controlled 2

 Resistance 3

Application Information 3

 Use Rate 3

 Gallage 3

 Application Timing 3

 Spray Tank Preparation 3

 Spray Mixture Preparation 3

 Wet Spray Application 3

 Dry (Direct) Application 3

 Water Management
 During and Following Application 4

Sprayer Cleanup 4

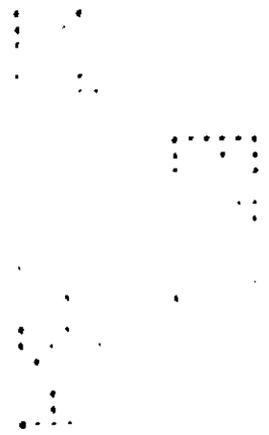
Spray Drift 4

Important Precautions 5

Storage and Disposal 5

Notice to Buyer 5

Notice of Warranty 5





LONDAX® HERBICIDE

FOR USE ON RICE
IN THE STATE OF CALIFORNIA

DRY FLOWABLE

ACTIVE INGREDIENT	BY WEIGHT
Methyl 2-[[[(4,6-dimethoxypyrimidin-2-yl) amino]-carbonyl]amino]sulfonyl methyl]benzoate	60%
INERT INGREDIENTS	40%
TOTAL	100%

EPA Reg No. 352-506

U.S. Pa. 4,420,325

13 9 18

KEEP OUT OF REACH OF CHILDREN WARNING AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

STATEMENT OF PRACTICAL TREATMENT

If in eyes, immediately flush with plenty of water. Get medical attention.

If on skin, wash with plenty of soap and water. Get medical attention if irritation persists.

If swallowed, call a physician or poison control center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with fingers.

Do not induce vomiting or give anything by mouth to an unconscious person.

For medical emergencies involving this product, call toll free: 1-800-441-3637.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING ! CAUSES EYE IRRITATION.

Do not get in eyes, on skin or clothing. Avoid breathing spray mist. Harmful if swallowed.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

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

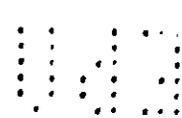
Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

USERS SHOULD: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

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, except as specified on this label for use in rice. Do not contaminate water when disposing of equipment washwaters.



IMPORTANT

Injury to or loss of desirable trees or vegetation may result from failure to observe the following:

Do not apply or drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots.

Do not use on lawns, walks, driveways, tennis courts, or similar areas. Prevent drift of spray to desirable plants.

Do not contaminate any body of water.

Keep from contact with fertilizers, insecticides, fungicides, and seeds during storage.

Injury to or loss of subsequently sprayed crops may result from failure to observe the following procedures:

LONDAX must be cleaned from application equipment prior to spraying crops other than rice, according to cleanup procedures described in the *Sprayer Cleanup* section of this label.

Injury to or loss of adjacent sensitive crops and vegetation may result from failure to observe the following:

Avoid all direct or indirect (such as spray drift) contact with crops other than rice or land scheduled to be planted with crops other than rice because most crops other than rice are highly sensitive to LONDAX.

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.

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) of 24 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
- Protective eyewear

LONDAX should only be used in accordance with recommendations on this label. DuPont will not be responsible for losses or damages resulting from the use of this product in any manner not specifically recommended by DuPont. User assumes all risks associated with such nonrecommended use.

GENERAL INFORMATION

DuPont LONDAX® Herbicide is a dry flowable formulation that is used for selective preemergent and postemergent weed control in rice. When applied according to label directions, it effectively controls many annual and perennial broadleaves and sedges. The best control is achieved when LONDAX is applied to very young emerging and actively growing weeds (fewer than three leaves). The degree and duration of control may depend on the following:

- weed spectrum and infestation intensity
- weed size at application
- growing conditions at and following treatment
- soil pH, texture, and organic matter content
- water management

ENVIRONMENTAL CONDITIONS AND BIOLOGICAL ACTIVITY

LONDAX rapidly inhibits the growth of susceptible broadleaf weeds and sedges. Three to 5 days after application to weeds, leaves of susceptible plants appear chlorotic, and the growing point subsequently dies. Susceptible plants are controlled in 7 to 21 days depending on the species. In some cases, affected plants remain green but are stunted and are not competitive with the crop.

The herbicidal action of LONDAX may be influenced by temperature. At warmer temperatures, expression of herbicide symptoms is accelerated; at cooler temperatures (when air or water temperatures are below 70 °F), expression of herbicide symptoms may be delayed beyond 5 days.

Occasionally, treated rice may suffer temporary chlorosis and/or growth retardation after treatment with LONDAX. These symptoms, which intensify in cold water and at high ambient temperatures, are normally temporary and disappear within two to three weeks after application.

WEEDS CONTROLLED

LONDAX effectively controls the following weeds when used according to label directions:

<u>Common Name</u>	<u>Scientific Name</u>
Blunt Spikerush	<u>Eleocharis obtusa</u>
California Arrowhead*	<u>Sagittaria montevidensis calycina</u>
Ducksalad	<u>Heteranthera limosa</u>
Eisen waterhyssop	<u>Bacopa eisenii</u>
Roundleaf waterhyssop	<u>Bacopa rotundifolia</u>
Purple ammannia*	<u>Ammannia coccinea</u>
Redstem*	<u>Ammannia auriculata</u>
Roughseed bulrush*	<u>Scirpus mucronatus</u>
Southern naiad	<u>Najas guadalupensis</u>
Smallflower umbrellaplant*	<u>Cyperus difformis</u>
Water plantain (Seedling)	<u>Alisma spp.</u>
Waterwort	<u>Elatine spp.</u>

* Naturally occurring resistant biotypes of this weed are known to exist in California. LONDAX will not control these biotypes.

In addition to controlling the weeds listed above, LONDAX controls barnyardgrass and watergrass if applied sequentially with Ordram¹ or Bolero². LONDAX should be applied on the same day as, or as soon as possible prior to or after, application of these pesticides.

Note: Observe all applicable directions, restrictions (including water-holding requirements), and precautions on the "Ordram" and "Bolero" labels.

RESISTANCE

Biotypes of certain weeds listed on this label are resistant to LONDAX and other herbicides with the same mode of action, even at exaggerated application rates. Biotypes are naturally occurring individuals of a species identical in appearance but with slightly different genetic compositions; the mode of action of a herbicide is the chemical interaction that interrupts a biological process necessary for plant growth and development.

If weed control is unsatisfactory, it may be necessary to respray problem areas using a product with a different mode of action, such as postemergence broadleaf and/or sedge herbicides. Consult your Ag dealer, consultant, applicator, and/or appropriate state agricultural extension service representative for specific alternative herbicide recommendations available in your area.

Because resistant biotypes are known to exist in California, it is advisable to keep accurate records of pesticides applied to individual fields to help obtain information on the spread and dispersal of the resistant biotypes.

APPLICATION INFORMATION

Londax may be applied in tank mixtures or tank mixture combinations with the following herbicides labeled for use in rice: Abolish², MCPA, 2,4-D and propanil. Londax may also be tank mixed with the additive, crop oil concentrate (COC).

Refer to the above companion herbicide label(s) for all applicable use directions, restrictions (including any water-holding requirements), and precautions.

NOTE: Refer to the DuPont bulletin "Approved Adjuvants for Use With DuPont Row Crop and Cereal Herbicides" for a listing of all DuPont approved crop oil concentrate additives.

USE RATE

1-2/3 oz LONDAX per acre per year

GALLONAGE

Use at least 5 gal of water per acre for aerial applications (wet sprays).

APPLICATION TIMING

For best results, LONDAX should be applied to submerged weeds from preemergence to early postemergence and to rice at the 1- to 3-leaf stage. The best control is achieved when LONDAX is applied to very young emerging and actively growing weeds (fewer than three leaves).



LONDAX can be applied to rice beyond the 3-leaf stage, but late applications should target the preemergent to early postemergent stage of weeds.

SPRAY TANK PREPARATION

Spray equipment must be clean and free of deposits before using LONDAX. Deposits in spray equipment can trap LONDAX and inhibit cleanup of the spray equipment after use.

Therefore, before spraying LONDAX, clean the equipment according to the cleanup procedures specified on the label of the product previously sprayed. After completing this cleanup procedure, clean the spray equipment, loading hoses, batch tanks, and any other equipment that will be exposed to LONDAX according to the following procedure:

1. Steam-clean the tanks using a nonchlorine-based detergent, taking care to remove all physical residues.
2. Thoroughly rinse the sprayer, tanks, boom, and hoses with clean water. Be sure that the rinse water is free of sediment and agricultural chemicals.
3. Fill the tank one-half full with clean water and add Nutra-sol¹ at 32 oz per 100 gal of water. Fill the tank to capacity with clean water. Flush the boom and hoses and agitate (and recirculate, if possible) the sprayer for 15 minutes. Drain the equipment, taking care to flush the nozzles and hoses thoroughly.
4. Remove the nozzles, screens, and strainers and clean them separately.
5. Thoroughly rinse the sprayer, tanks, boom, nozzles, and hoses with clean water to remove "Nutra-sol".
6. Follow the label directions of the product previously sprayed for proper rinsate disposal.

SPRAY MIXTURE PREPARATION

Wet Spray Application

Thoroughly mix LONDAX with clean water (water that is free of sediment and agricultural chemicals) in the spray tank. Do not use water from paddies. Only approved drift control agents, e.g. Chemtrol¹, may be used with LONDAX. Do not use any other additives except as directed by this label.

To ensure uniform mixing and application, agitate the mixture before application. If the mixture is not sprayed immediately after agitation, reagitate it before application. Always apply LONDAX spray preparations within 24 hours of product mixing, or the product may degrade.

Do not store LONDAX in nurse tanks or any other tanks used to store or transport clean water. Install one way valves (anti siphoning devices) on lines and hoses of mixing/loading equipment to prevent contamination of nurse tanks or other clean water sources.

Mixing and application equipment exposed to LONDAX cannot be used for anything other than rice applications until it has been cleaned according to the procedures in the Sprayer Cleanup section of this label.

Dry (Direct) Application

LONDAX may be applied as a dry application—without dilution in a liquid carrier—by air to control weeds in water-seeded rice. When applied according to the instructions on this label, dry aerial applications of LONDAX effectively control many broadleaf and sedge weeds in water-seeded rice; however, special equipment is required for this method of application.

Note the following precautions when applying LONDAX dry by air:

- Follow the loading, application, and equipment calibration instructions provided by the equipment manufacturer.
- Apply using only equipment approved by both DuPont and the Federal Aviation Administration (FAA).
- Only certified applicators using DuPont-certified equipment should apply LONDAX dry by air.
- Do not mix LONDAX with any liquid carrier (such as water or oil).
- Do not mix with any surfactant or crop oil.
- Most crops other than rice are highly sensitive to LONDAX. Avoid all direct or indirect (such as spray drift) contact with nontarget crops (or land scheduled to be planted with crops), as injury may result.
- Do not use equipment designed to apply LONDAX dry by air to rice to apply any product to any crop other than rice, as injury may result.

WATER MANAGEMENT DURING AND FOLLOWING APPLICATION

At application, and for 5 days following application, the soil should be completely covered with at least 3" of water that is held static (water that remains in individual paddies). For the best weed control, foliage of target weeds must also remain covered with static water at application and during the water-holding period. LONDAX efficacy will be reduced in areas where soil and weed foliage are not sufficiently covered.

Runoff caused by rainfall occurring within 5 days of application may reduce product performance.

The field may be irrigated to maintain the flood level, but this may also reduce control.

SPRAYER CLEANUP

Before using equipment exposed to LONDAX to treat another crop, clean the sprayer and any other equipment (loading hoses, batch tanks, etc.) using the following procedure:

1. Steam clean tank using a nonchlorine based detergent taking care to remove all physical residues.
2. Thoroughly rinse sprayer, tanks, boom, and hoses with clean water (free of sediment and agricultural chemicals).
3. Fill the tank one-half full with clean water and add "Nutra-sol" at 32 oz per 100 gal of water. Fill the tank to capacity with clean water. Flush the nozzles, boom, and

hoses, and agitate (and recirculate, if possible) the sprayer for 15 minutes. Drain the equipment, taking care to flush the boom and hoses thoroughly.

4. Rinse tanks, hoses and nozzles with clean water to remove "Nutra-sol".
5. Fill the tank one-half full with clean water and add 1 gal of 21% ammonia or 7 gal of 3% ammonia per 100 gal of water. Fill the tank to capacity with clean water. Flush the nozzles, boom, and hoses, and agitate (and recirculate, if possible) the sprayer for 15 minutes. Drain the equipment, taking care to flush the boom and hoses thoroughly.
6. Remove nozzles, screens, and strainers, and clean them separately.
7. Rinse tanks, booms, and hoses with clean water.
8. Repeat steps 5 and 7 an additional three times.
9. Rinse tanks, booms, and hoses to remove all traces of ammonia.
10. Dispose of the rinsate on site or at an approved waste disposal facility.

NOTE: When applying multiple loads of LONDAX several days in a row, the following procedure must be performed at the end of each day: partially fill the tank with fresh water, flush the boom and hoses, and allow to sit overnight.

CAUTION: Do not use chlorine bleach with ammonia. All traces of liquid fertilizer containing ammonia, ammonium nitrate or ammonium sulphate must be rinsed from the mixing and application equipment using water before adding chlorine bleach solution. Failure to do so will release a gas with a musty chlorine odor that can cause eye, nose, throat, and lung irritation. Do not clean equipment in an enclosed area.

Perform cleanup procedures on batch tanks and any other mixing equipment separately from aircraft hoppers. Take care to clean loading hoses and any other equipment or surfaces exposed to LONDAX.

SPRAY DRIFT MANAGEMENT

The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions.

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

IMPORTANCE OF DROPLET SIZE

The most effective way to reduce drift potential is to apply large droplets (>150 - 200 microns). The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. APPLYING LARGER DROPLETS REDUCES DRIFT POTENTIAL, BUT WILL NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS! See Wind, Temperature and Humidity, and Temperature Inversions sections of this label.

Controlling Droplet Size - General Techniques

- **Volume** - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** - Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. **WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.**
- **Nozzle Type** - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles.

Controlling Droplet Size - Aircraft

- **Number of Nozzles** - Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.
- **Nozzle Orientation** - Orienting nozzles so that the spray is emitted backwards, parallel to the airstream will produce larger droplets than other orientations.
- **Nozzle Type** - Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types.
- **Boom Length** - The boom length should not exceed 3/4 of the wing or rotor length - longer booms increase drift potential.
- **Application Height** - Application more than 10 ft above the canopy increases the potential for spray drift.

BOOM HEIGHT

Setting the boom at the lowest referenced height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. For ground equipment, the boom should remain level with the crop and have minimal bounce.

WIND

Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. **AVOID GUSTY OR WINDLESS CONDITIONS.**

Note: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, set up equipment to produce larger droplets to reduce effects of evaporation

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the

movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

AIR ASSISTED (AIR BLAST) FIELD CROP SPRAYERS

Air assisted field crop sprayers carry droplets to the target via a downward directed air stream. Some may reduce the potential for drift, but if a sprayer is unsuitable for the application and/or set up improperly, high drift potential can result. It is the responsibility of the applicator to determine that a sprayer is suitable for the intended application, is configured properly, and that drift is not occurring.

Note: Air assisted field sprayers can affect product performance by affecting spray coverage and canopy penetration. Consult the spray equipment section of this label to determine if use of an air assist sprayer is recommended.

IMPORTANT PRECAUTIONS

- Do not apply this product through any type of irrigation system.
- Do not apply more than 1-2/3 oz LONDAX per acre per year.
- Do not graze treated fields or feed treated forage within 80 days of the last application.
- Do not apply LONDAX within 80 days of harvest.
- Do not apply LONDAX to rice under stress from abnormal weather or growing conditions, drought, disease, or 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* spp.).
- Do not rotate to crops other than rice for 120 days following application.
- Do not apply LONDAX dry by air with any other application.
- Do not use a swath width greater than 60 feet when applying LONDAX dry by air.
- Apply LONDAX dry by air at a maximum of no greater than 1/2 the wing span of the aircraft.
- Do not apply LONDAX dry by air to dry seeded rice.
- Do not apply LONDAX within 60 feet of sensitive crops.

18 2 18

STORAGE AND DISPOSAL

STORAGE: Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage.. 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: Triple-rinse (or equivalent) the container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities, by burning. If the containers are burned, stay out of smoke.

NOTICE TO BUYER

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

NOTICE OF WARRANTY

DuPont warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with 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 DuPont. In no case shall DuPont 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. DUPONT MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

Registered Trademark of

- 1 ICI Americas, Inc., Wilmington, DE
- 2 Valent USA Corp., Walnut Creek, CA
- 3 Thomas G. Kilford Company, Inc., San Bruno, CA
- 4 Loveland Industries, Inc., Loveland, CO

NET WT. 16.6 oz

D-186 110394

