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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF PREVENTION PESTICIDES AND TOXIC SUBSTANCES

JAN 29 2003

Mr. Dan Campbell Regulatory Product Manager, Herbicides Syngenta Crop Protection, Inc. P.O. Box 18300 Greensboro, NC 27419

Dear Mr. Campbell:

Subject: LUMAX® Selective Herbicide EPA Registration No. 100-1152

> Application and Your Letter Dated December 17, 2002, Request To Amend Product Registration, Administrative Amendments to Labeling, Not Requiring Data Review

The proposed amendments to the labeling of LUMAX Selective Herbicide as describe in your letter have been reviewed and found acceptable under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, provided that you:

o Submit one (1) copy of the final printed label prior to your shipment of this pesticide product under the enclosed revised label.

If this condition is not complied with, the registration will be subject to cancellation in accordance with FIFRA, section 6 (e). Your release for shipment under this labeling constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

Sincerely yours,

Herbicide Branch

Registration Division (7505C)

Enclosure

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2.5, 120, 220, 330 Gallon and Bulk Booklet

RESTRICTED USE PESTICIDE (GROUND AND SURFACE WATER CONCERNS)

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.

THIS PRODUCT IS A RESTRICTED-USE HERBICIDE DUE TO GROUND AND SURFACE WATER CONCERNS. USERS MUST READ AND FOLLOW ALL PRECAUTIONARY STATEMENTS AND INSTRUCTIONS FOR USE IN ORDER TO MINIMIZE POTENTIAL FOR ATRAZINE TO REACH GROUND AND SURFACE WATER.

Lumax™ Selective Herbicide

A Preemergence Herbicide for Control of Annual Grass and Broadleaf Weeds in Field Corn, Field Production Seed Corn, and Field Silage Corn

Active Ingredients*:

S-Metolachlor: (CAS No. 87392-12-9)	29.40%
Atrazine**: (CAS No. 1912-24-9)	
Mesotrione: (CAS No. 104206-82-8)	
Other Ingredients:	56.66%
Total:	100.00%

^{*}Active ingredients per gallon: S-Metolachlor 2.68 pounds, Mesotrione 0.268 pounds, and Atrazine 1.0 pound.

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 100-1152 EPA Est. 100-LA-001

SCP 1152A-L1x xxxx (2.5 gal.) SCP 1152A-L2x xxxx (Bulk) ACCEPTED
with COMMENTS
In EPA Letter Dated

JAN 29 2003

Under the Federal Insecticide, Fundicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

^{**}Atrazine with a maximum of 0.4% related triazines.

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2.5 gallons

U.S. Standard Measure

120 Gallons

U. S. Standard Measure

220 Gallons

U. S. Standard Measure

330 gallons U.S. Standard Measure

gallons U.S. Standard Measure

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	FIRST AID
If in eyes	 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. Call a Poison Control Center or doctor for treatment advice
If on skin or clothing	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a Poison Control Center or doctor for treatment advice.
If inhaled	 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a Poison Control Center or doctor for further treatment advice.
If swallowed	 Call a Poison Control Center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
Have the pro	oduct container or label with you when calling a poison control center or doctor, or going for treatment.
	HOT LINE NUMBER
	r 24 Hour Medical Emergency Assistance (Human or Animal) Chemical Emergency Assistance (Spill, Leak, Fire or Accident), Call
	1-800-888-8372

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Causes moderate eye injury. Do not get in eyes or on clothing. Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling and before eating, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse. Wear long-sleeved shirt and long pants, socks plus shoes and gloves. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Personal Protective Equipment

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves Category A (e.g. barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride (FVC) or viton)
- Shoes plus socks

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Discard clothing and 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.

Engineering Control Statements

Mixers and loaders supporting aerial applications are required to use closed systems. The closed system must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)]. When using the closed system, the mixers' and loaders' PPE requirements may be reduced or modified as specified in the WPS.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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.

Environmental Hazards

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate. This pesticide contains atrazine, which has been shown to be toxic to aquatic invertebrates. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas.

Ground Water Advisory

Lumax contains the active ingredients S-metolachlor, mesotrione and atrazine.

Atrazine can travel (seep or leach) through soil and can enter ground water which may be used as drinking water. Atrazine has been found in ground water. Users are advised not to apply atrazine to sand and loamy sand soils where the water table (ground water) is close to the surface and where these soils are very permeable, i.e., well-drained. Your local agricultural agencies can provide further information on the type of soil in your area and the location of ground water.

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S-metolachlor has the potential to leach through soil into ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

Surface Water Advisory

The active ingredients in this product have the potential to contaminate surface water through ground spray drift. Under some conditions, the active ingredients may also have a high potential for runoff into surface water (primarily via dissolution in runoff water) for several months post-application. These include poorly drained or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlaying tile drainage systems that drain to surface water.

A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices will reduce this product's contribution to surface water contamination.

Mixing/Loading Instructions

Care must be taken when using this product to prevent back-siphoning into wells, spills, or improper disposal of excess pesticide, spray mixtures, or rinsates.

Check values or antisiphoning devices must be used on mixing equipment.

This product may not be mixed/loaded or used within 50 ft. of wells, including abandoned wells, drainage wells, and sink holes. Operations that involve mixing, loading, rinsing, or washing to this product into or from pesticide handling or application equipment or containers within 50 ft. of any well are prohibited, unless conducted on all impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or wash water, and rain water that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self-contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain, at a minimum, 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above specified minimum containment capacities do not apply of vehicles when delivering pesticide shipments to the mixing/loading site.

States may have in effect additional requirements regarding well head setbacks and operational area containment.

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This product may not be mixed or loaded within 50 ft. of perennial or intermittent streams and rivers, natural or impounded lakes and reservoirs. This product may not be applied within 66 ft. of the points where field surface water runoff enters perennial or intermittent streams and rivers or within 200 ft. from the edge of natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66 ft. buffer or setback from runoff entry points must be planted to crop, or seeded with grass or other suitable crop.

Tile-Terraced Fields Containing Standpipes

To ensure protection of surface water from runoff through standpipes with tile-outlets in terraced fields, one of the following options may be used:

- 1. Do not apply this product within 66 ft. of standpipes in tile-outletted terraced fields.
- 2. Apply this product to the entire tile-outletted terraced field and immediately incorporate it to a depth of 2-3 inches in the entire tile-outletted terraced field.
- 3. Apply this product to the entire tile-outletted terraced field under a no-till practice only when a high crop residue management practice is practiced. High crop residue management practice is described as a crop management practice where little or no crop residue is removed from the field during and after crop harvest.

Physical and Chemical Hazards

Do not use or store near heat or open flame.

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CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should 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 or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, Inc. or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and Buyer and User assume the risk of any such use. SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall SYNGENTA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

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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. Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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 and water, wear:

- Coveralls over long-sleeved shirt and long pants
- Socks and chemical resistant footwear
- Chemical-resistant gloves Category A (e.g. barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride (PVC) or viton)

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR WEED CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.

Note: Not for sale, use, or distribution in Nassau County or Suffolk County, New York.

STORAGE AND DISPOSAL

Prohibitions

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Keep away from heat and flame.

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Storage

Keep container tightly closed when not in use. Do not store near seeds, fertilizers, or foodstuffs. Can be stored at temperatures as low as -10°F.

Ground water contamination may be reduced by diking and flooring of permanent liquid bulk storage sites with an impermeable material.

Pesticide Disposal

Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Rinse spray equipment. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of as described above, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container Disposal

Triple rinse (or equivalent) 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.

FOR BULK AND MINI-BULK CONTAINERS

Container Disposal

When this container is empty, replace the cap and seal all openings that have been opened during use; and return the container to the point of purchase or to a designated location named at time of purchase of this product. This container must only be refilled with this pesticide product. DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transporting. Do not transport if this container is damaged or leaking. If the container is damaged, leaking, or obsolete, contact Syngenta Crop Protection, Inc. at 1-800-888-8372. If not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling. Disposal of this container must be in compliance with state and local regulations.

Container Precautions

Before refilling, inspect thoroughly for damage such as cracks, punctures, bulges, dents, abrasions, and damaged or worn threads on closure devices.

For Mini-Bulk Containers

REFILL ONLY WITH Lumax herbicide. The contents of this container cannot be completely removed by cleaning. Refilling with materials other than Lumax will result in contamination and may weaken container.

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After filling and before transporting, check for leaks.

Do not refill or transport damaged or leaking container.

Circulation before dispensing is required.

DO NOT USE MINI-BULK CONTAINERS FOR THE STORAGE OF FOOD, FEED, OR DRINKING WATER.

GENERAL INFORMATION

Lumax may be used only in the culture of field corn, field corn seed corn, and field corn silage.

Lumax is a selective herbicide recommended for preemergence use for control of most annual grasses and broadleaf weeds in field corn. Lumax may also be applied early postemergence for the control of broadleaf weeds in field corn. See Table 1 and 2 for a list of weeds controlled. Lumax will not provide adequate control of grasses that are emerged at the time of application.

Lumax is a unique combination of the herbicides: S-metolachlor, mesotrione, and atrazine plus the safener Benoxacor. Lumax controls weeds by interfering with normal germination and seedling development. It is recommended for control of the weeds listed in the Tables 1 and 2.

USE PRECAUTIONS

Read all label directions before using.

- 1. Do not apply this product through any type of irrigation system.
- 2. Do not apply under conditions which favor runoff or wind erosion of soil containing this product to nontarget areas.
- 3. To prevent off-site movement due to runoff or wind erosion:

Avoid treating powdery dry or light sand soils when conditions are favorable for wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation.

Do not apply to impervious substrates, such as paved or highly compacted surfaces.

Do not use tailwater from the first flood or furrow irrigation of treated fields to treat nontarget crops, unless at least ½ inch of rainfall has occurred between application and the first irrigation.

4. Where reference is made to weeds partially controlled, partial control can either mean erratic control from good to poor or consistent control at a level below that generally considered acceptable for commercial weed control.

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- 5. Dry weather following preemergence application of Lumax or a tank mixture may reduce effectiveness. Cultivate if weeds develop in conventional tillage corn.
- 6. Observe all precautions and limitations on the label of each product used in tank mixtures.
- 7. Thoroughly clean sprayer or other application device before using. Dispose of cleaning solution in a responsible manner. Do not use a sprayer or applicator contaminated with other materials, or crop damage or sprayer clogging of the application device may occur.
- 8. This product will not provide consisent control of emerged grass weeds.
- 9. Do not apply more than 3 qts. of Lumax per growing season.
- 10. Do not apply other mesotrione containing products (Camix or Callisto) to ground that has been treated with LUMAX in the same season.
- 11. Do not apply Lumax postemergence (emerged corn) to corn that has received an at-plant application of Counter® insecticide as severe corn injury may occur. Temporary corn injury may occur if LUMAX is applied to emerged corn where organophosphate insecticides other than Counter were applied at planting.
- 12. Do not make postemergence (emerged corn) applications of Lumax in a tank mix with any organophosphate or carbamate insecticide, or severe corn injury may occur.
- 13. Do not make a postemergence (emerged corn) application of any organophosphate or carbamate insecticide within 7 days before or 7 days after a Lumax application, or severe corn injury may occur.
- 14. Do not use Lumax on any crop other than field corn (for grain, seed, or silage),
- 15. Do not apply metolachlor containing products, such as Inter 8E II or Inter Plus II, in tank mixture or as sequential applications with Lumax.
- 16. Do not use Lumax in the culture of sweet corn, popcorn, ornamental (Indian) corn.
- 17. Do not contaminate irrigation water used for crops other than field corn or water used for domestic purposes.
- 18. Avoid drift onto adjacent crops.
- 19. Avoid spray overlap, as crop injury may result.
- 20. Do not allow Lumax to contaminate feed or food.
- 21. Do not store Lumax near seeds, fertilizers, or foodstuffs.
- 22. All containers of Lumax must be kept tightly closed when not in use.
- 23. Do not use aerial application to apply Lumax herbicide.

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Applied according to directions and under normal growing conditions, Lumax will not harm the treated crop. During germination and early stages of growth, extended periods of unusually cold and wet or hot and dry weather, insect or plant disease attack, carryover pesticide residues, the use of certain soil applied systemic insecticides, improperly placed fertilizers or soil insecticides, may weaken crop seedlings. Lumax used under these conditions could result in crop injury.

RESISTANCE MANAGEMENT

Naturally occurring biotypes of certain broadleaf weed species with resistance to triazines or ALS

herbicides are known to exist. However, no known resistance to this product exists and there are no known instances of cross resistance between this herbicide and other classes of herbicides. If biotypes of weeds resistant to triazines or ALS inhibitors are present in the field, this herbicide should control them if they are listed in Table 1 and 2.

To help reduce the risk of resistance development to this herbicde product, do not use other mesotrione containing herbicides (Callisto or Camix) in the same season, on the same field, where Lumax has been applied.

INTEGRATED PEST (WEED) MANAGEMENT

Lumax may be integrated into an overall pest management strategy. Practices known to reduce weed development (tillage, crop competition) and herbicide use (weed scouting, proper application timing, banding, and rotations) should be followed wherever possible. Consult local agricultural and weed authorities for additional Integrated Pest Management strategies established for your area.

SOIL ORGANIC MATTER

The organic matter of the soil on which the application is to be made must be known or determined prior to application. The use-rate of Lumax is based on percent soil organic matter.

USE RATES IN ALL TILLAGE SYSTEMS (CONVENTIONAL, REDUCED, AND NO-TILL)

The soil organic matter content of the field on which Lumax is to be applied must be known. If soil organic matter content is less than 3%, use 2.5 qts. of Lumax per acre. If soil organic matter content is 3% or greater, use 3 qts. of Lumax per acre. Do not apply more than 14 days prior to planting or to field corn higher than 5 inches. Lumax is not recommended on soils with greater than 10% organic matter, or poor weed control may result.

LUMAX RATE LIMITATIONS

Certain states may have established rate limitations within specific geographical areas for the use of atrazine. These more restrictive/protective requirements must be followed. Consult your state lead pesticide control agency for additional information. It is a violation of this label to deviate from state use regulations.

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Note: For purposes of calculating total atrazine active ingredient applied, Lumax contains 1.0 lb. a.i. Atrazine plus relateds per gallon.

REDUCED AND NO-TILL SYSTEMS

Lumax may be used in reduced and no-till systems. The highest levels of control will be obtained when applications are made as close to planting as possible. It is recommended that a burndown herbicide such as Gramoxone® Extra, Gramoxone® Max, Touchdown®, Roundup Ultra®, Roundup UltraMax™ or 2,4-D be tank mixed with Lumax in reduced or no-till systems if weeds are present at application and the field corn has not yet emerged.

WEEDS CONTROLLED

Lumax applied as directed in this label will control or suppress the weeds listed in Tables 1 and 2. Additional weeds may be controlled with tank mixes. See the Lumax Tank Mix Combinations section for recommended tank mix combinations. Always consult the tank mix product labels for specific rates and use directions.

Table 1. Weeds Controlled or Partially Controlled by Preemergence Applications of Lumax

Common Name	Weed Type	Scientific Name	C = Control PC = Partial Control
Barnyardgrass	G	Echinochloa crus-galli	С
Broadleaf signalgrass	G	Brachiaria platyphylla	С
Browntop panicum	G	Panicum fasciculatum	С
Buffalobur	В	Solanum rostratum	С
Carpetweed	В	Mollugo verticillata	С
Cocklebur, common	В	Xanthium strumarium	PC
Crabgrass	G	Digitaria spp.	С
Crowfootgrass	G	Dactyloctenium aegyptium	С
Fall panicum	G	Panicum dichotomiflorum	С
Field sandbur	G	Cenchrus incertus	PC
Florida pusley	В	Richardia scabra	С
Foxtail millet	G	Setaria italica	С

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Common Name	Weed Type ¹	Scientific Name	C = Control PC = Partial Control
Galinsoga	В	Galinsoga parviflora	С
Giant foxtail	G	Setaria faberi	С
Goosegrass	G	Eleusine indica	С
Green foxtail	G	Setaria viridis	С
Jimsonweed	В	Datura stramonium	С
Kochia	В	Kochia scoparia	С
Lambsquarters, common	В	Chenopodium album	С
Morningglory, ivyleaf/entireleaf	В	Ipomoea hederacea.	PC
Nightshade, black	В	Solanum nigrum	С
Nightshade, eastern black	В	Solanum ptycanthum	С
Nightshade, hairy	В	Solanum sarrachoides	С
Palmer amaranth	В	Amaranthus palmeri	С
Prairie cupgrass	G 、	Eriochloa contracta	С
Prickly sida	В	Sida spinosa	PC
Purslane, common	В	Portulaca oleracea	С
Ragweed, common	В	Ambrosia artemisiifolia	С
Ragweed, giant*	В	Ambrosia trifida	PC
Red rice	G	Oryza sativa	С
Red sprangletop	G	Leptochloa filiformis	С
Redroot pigweed	В	Amaranthus retroflexus	С
Robust foxtail (purple, white)	G	Setaria spp.	С
Seedling johnsongrass	G	Sorghum halepense	PC
Shattercane	G	Sorghum bicolor	PC

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Common Name	Weed Type ¹	Scientific Name	C = Control PC = Partial Control
Smartweed, ladysthumb	В	Polygonum persicaria	С
Smartweed, Pennsylvania	В	Polygonum pensylvanicum	С
Southwestern cupgrass	G	Eriochloa gracilis	С
Sunflower, common	В	Helianthus annus	PC
Texas panicum	G	Panicum texanum	PC
Velvetleaf	В	Abutilon theophrasti	С
Waterhemp, common	В	Amaranthus tuberculatus	С
Waterhemp, tall	В	Amaranthus rudis	С
Wild mustard	В	Brassica kaber	С
Wild proso millet	G	Panicum miliaceum	PC
Witchgrass	· G	Panicum capillare	С
Woolly cupgrass	G	Eriochloa villosa	PC
Yellow foxtail	G	Setaria glauca	С
Yellow nutsedge	S	Cyperus esculentus	С

¹B=Broadleaf, G=Grass, S=Sedge

Thoroughly till soil or make an application of a burndown herbicide to destroy germinating and emerged weeds. Plant crop into moist soil immediately after tillage.

If a significant rainfall does not occur within 7 days after application, weed control may be decreased. If irrigation is available, apply 1/2 to 1 inch of water. If irrigation is not available, a uniform shallow cultuvation is recommended as as soon as weeds emerge.

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Table 2. Weeds Controlled or Partially Controlled by Early Postemergence Applications of Lumax

Common Name	Weed Type ¹	Scientific Name	C = Control PC = Partial Control
Buffalobur	В	Solanum rostratum	С
Carpetweed	В	Mollugo verticillata	С
Cocklebur, common	В	Xanthium strumarium	С
Dandelion	В	Taraxacum officinale WEBER	PC
Florida pusley	В	Richardia scabra	С
Galinsoga	В	Galinsoga parviflora	С
Hemp	В	Cannabis sativa L.	С
Horsenettle	В	Solanum carolinense	С
Horseweed	В	Conyza canadensis	С
Jimsonweed	В	Datura stramonium	С
Kochia	В	Kochia scoparia	С
Lambsquarters, common	В	Chenopodium album	С
Marestail	В	Hippuris vulgaris L.	С
Morningglory, ivyleaf/entireleaf	В	Ipomoea hederacea.	С
Nightshade, black	В	Solanum nigrum	С
Nightshade, eastern black	В	Solanum ptycanthum	С
Nightshade, hairy	В	Solanum sarachoides	С
Palmer amaranth	В	Amaranthus palmeri	С
Pokeweed	В	Phytolacca americana	С
Potatoes, volunteer	В	Solanum Spp	С
Prickly sida	В	Sida spinosa	С

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Common Name	Weed Type ¹	Scientific Name	C = Control PC = Partial Control
Purslane, common	В	Portulaca oleracea	С
Ragweed, common	В	Ambrosia artemisiifolia	С
Ragweed, giant	В	Ambrosia trifida	С
Redroot pigweed	В	Amaranthus retroflexus	С
Smartweed, ladysthumb	В	Polygonum persicaria	С
Smartweed, Pennsylvania	В	Polygonum pensylvanicum	С
Sunflower, common	В	Helianthus annus	С
Thistle, canada	В	Cirsium arvense (L.) SCOP.	С
Velvetleaf	В	Abutilon theophrasti	С
Waterhemp, common	В	Amaranthus tuberculatus	С
Waterhemp, tall	В	Amaranthus rudis	С
Wild mustard	В	Brassica kaber	С
Yellow nutsedge	S	Cyperus esculentus	PC

¹B=Broadleaf, G=Grass, S=Sedge

Lumax will not provide consistent control of emerged grass weeds.

A tank mix of AAtrex® with Lumax can provide control of certain emerged annual grass weeds. Refer to the AAtrex label for weeds controlled and other restrictions.

ROTATIONAL CROPS

Field corn may be replanted immediately, if crop is lost. Do not reapply Lumax.

- (1) Do not rotate to crops other than corn (all types), cotton, small grain cereals, soybeans, sorghum or peanuts the spring following application of Lumax.
- (2) Do not graze or feed forage or fodder from cotton to livestock, or illegal residues may result.
- (3) Injury may occur to soybeans planted the year following application on soils having a calcareous surface layer if additional atrazine or atrazine-containing products are used.
- (4) In eastern parts of the Dakotas, KS, western MN, and NE, do not rotate to soybeans for 18 months following application if the combined atrazine rate applied was more than 2.0 lbs. a.i./A, or equivalent band application rate, or soybean injury may occur.
- (5) If applied after June 1, do not rotate with crops other than corn (all types) or sorghum, the

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next season, or crop injury may occur.

- (6) In the High Plains and Intermountain areas of the West, where rainfall is sparse and erratic or where irrigation is required, use only when corn (all types) or sorghum is to follow field corn, or a crop of untreated corn (all types) or sorghum is to precede other rotational crops.
- (7) Winter wheat, barley, or rye may be planted 4 ½ months following application.
- (8) For all other crops, wait 18 months.

APPLICATION PROCEDURES

In reduced or no-till systems, a burndown herbicide such as Gramoxone Extra, Gramoxone Max, Roundup UltraMax, Roundup Ultra, Touchdown, or 2,4-D may be tank mixed with Lumax if emerged weeds are present at the time of application and the field corn has not yet emerged.

ADJUVANTS

Where Lumax is applied after the field corn has emerged, a non-ionic surfactant may be used. The use of crop oil concentrate may result in temporary crop injury. Do not use nitrogen based adjuvants (AMS or UAN) or methylated seed oil (MSO) with Lumax when applied alone or in tank mixture with other products to field corn that has emerged. Any of these adjuvants may be used preemergence or preplant where the field corn has not yet emerged.

Early Preplant: Lumax may be applied up to 14 days prior to planting.

Preemergence Surface: Do not exceed 3.0 qts.of Lumax per season. Lumax may be applied to the soil surface as a broadcast or banded application.

Banding Preemergence: Lumax may be applied in a 10-15 inch band after corn planting but prior to corn emergence.

Band Applications: For band applications, using row and band width measurements in inches, calculate the amount to be applied per acre as follows:

Band width in inches x Rate per acre for = Amount needed per acre
Row width in inches a broadcast treatment

Early Postemergence: A maximum of 3.0 qts./A of Lumax may be applied after corn emergence. Do not apply early postemergence to corn in liquid fertilizer or severe crop injury may occur. Apply this treatment to small broadleaf weeds (less than 3 inches tail) and before corn exceeds 5 inches in height. Occasional corn leaf burn may result, but this will not affect later growth or corn yield.

This product will not provide consistent control of emerged grass weeds. Tank mixes of AAtrex can improve control of emerged annual grass weeds. Refer to the AAtrex label for weeds controlled and use restrictions.

If Bicep II MAGNUM®, Bicep Lite II Magnum®, AAtrex (atrazine), Dual MAGNUM®, or Dual II MAGNUM® alone or in tank mixtures have been applied early preplant, preplant surface,

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preplant incorporated, or preemergence, limit the Lumax early post application to not exceed a total of 2.5 lbs. of active ingredient of Atrazine or 3.75 lbs. of S-metolachlor active per acre, or illegal residues may result.

Grazing Restriction: To avoid possible illegal residues, do not graze or feed forage from treated areas for 45 days following application.

Preharvest Interval (PHI): Corn may be treated up to 5 inches tall. Do not harvest forage, grain, or stover within 45 days after application.

Sprinkler Irrigation: Do not apply Lumax by sprinkler irrigation. Use a sprinkler system only to incorporate Lumax after application. After Lumax has been applied, a sprinkler irrigation system set to deliver ½-1 inch of water may be used to incorporate the product. Using more than 1 inch of water could result in reduced performance. On sandy soil low in organic matter, use no more than ½ inch of water. Do not use flood irrigation to apply or incorporate Lumax.

CULTIVATION

Should weeds develop, a shallow cultivation or rotary hoeing will generally result in improved weed control. If Lumax was incorporated, cultivate less than half the depth of incorporation.

If cultivation is necessary due to soil crusting, compaction, or escaped weeds, adjust equipment to run shallow and minimize soil movement. This will decrease the possibility of diluting or moving the herbicide from the weed control zone.

SPRAY EQUIPMENT

Ground Application

Spray nozzles should be uniformly spaced, the same size and type, and should provide accurate and uniform application. Use spray nozzles that provide medium to coarse droplet size to avoid drift yet provide good coverage. Ensure that all in-line strainer and nozzle screens in the sprayer are 50-mesh or coarser. Use a pump that can maintain a pressure of at least 35-40 psi at the nozzles and provide proper agitation within the tank to keep the product dispersed. Lower pressures may be used with extended range or drift reduction nozzles as long as adequate coverage is maintained. Always ensure that agitation is maintained until spraying is completed, even if stopped for brief periods of time. If the agitation is stopped for more than 5 minutes, re-suspend the spray solution by running on full agitation prior to spraying.

Pre-emergence: Apply in a spray volume of 10-80 gals./A.

Post-emergence: Good weed coverage is essential for optimum weed control. Boom height for broadcast over-the-top applications should be based on the height of the crop – at least 15 inches above the crop canopy, but only high enough to give uniform coverage. Apply in a spray volume of 10-30 gals./A. When weed foliage is dense, use a minimum spray volume of 20 gals/A. Flat fan nozzles of 80° or 110° are recommended for optimum postemergence coverage. Do not use floodjet nozzles or controlled droplet application equipment for postemergence applications. Nozzles may be angled forward 45° to enhance penetration of the crop and provide better coverage.

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Spray Drift

AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR. The interaction of equipment and weather related factors determine the potential for drift. The applicator is responsible for considering these factors when making an application decision.

Do not apply when weather conditions may cause drift to non-target areas. Drift may result in injury to adjacent crops and vegetation. To avoid spray drift, DO NOT apply when the wind speed is greater than 10 mph or during periods of temperature inversions.

Information on Droplet Size

The most effective way to reduce spray drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions.

Controlling Droplet Size

- Volume Use high flow rate nozzles to apply the highest practical spray volume. Nozzles
 with higher rated flows produce larger droplets.
- Pressure Do not exceed the nozzle manufacturers recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of Nozzles Use the minimum number of nozzles that provide uniform coverage.
- 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.

Application Height

Applications should be made at the lowest height above the target area that still provides uniform coverage of the target. Making applications at the lowest yet effective height reduces exposure of droplets to wind.

Wind

Drift potential is lowest between wind speeds 10 mph or less. However, many factors, including droplet size, pressure, and equipment type determine drift potential at any given wind speed. NOTE: Local terrain can influence wind patterns.

Leave a sufficient buffer downwind of the application to avoid drift to sensitive crops. This buffer may be untreated corn rows or field border species maintained for this purpose. The width of

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the buffer needed for a specific application will depend on the wind speed, distance to sensitive crops, and application equipment parameters.

Temperature Inversions

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures 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.

Sensitive Areas

LUMAX herbicide should only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, nontarget crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

Cleaning Equipment After Application

Special attention must be given to cleaning equipment before spraying a crop other than field corn. Mix only as much spray solution as needed.

- 1. Flush tank, hoses, boom, and nozzles with clean water.
- 2. Prepare a cleaning solution of 1 gal. of household ammonia per 25 gals. of water. Many commercial spray tank cleaners may be used.
- 3. Use a pressure washer to clean the inside of the spray tank with this solution. Take care to wash all parts of the tank, including the inside top surface. If a pressure washer is not available, completely fill the sprayer with the cleaning solution to ensure contact of the cleaning solution with all internal surfaces of the tank and plumbing. Start agitation in the sprayer and thoroughly recirculate the cleaning solution for at least 15 minutes. All visible deposits must be removed from the spraying system.
- 4. Flush hoses, spray lines, and nozzles for at least 1 minute with the cleaning solution.
- 5. Dispose of rinsate from steps 1-3 in an appropriate manner.
- 6. Repeat steps 2-5.
- 7. Remove nozzles, screens, and strainers and clean separately in the ammonia solution after completing the above procedures.
- 8. Rinse the complete spraying system with clean water.

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MIXING PROCEDURES

CARRIER

Liquids: Either water or liquid fertilizers, excluding suspension fertilizers, may be used as carriers for preemergence applications. If fluid fertilizers are used, a compatibility test must be done. See Compatibility Test section for compatibility testing. Even if Lumax is physically compatible with a fluid fertilizer, constant agitation is necessary to maintain a uniform mixture during application. Use only water as the carrier when applying Lumax after field corn emergence.

ADDING TO SPRAY TANK

The spray tank must be clean, thoroughly rinsed and decontaminated before adding either Lumax alone or with tank mix partners.. If water is used as the carrier, use clean water.

Used Alone: When Lumax is used alone, add the recommended amount to the spray tank when the tank is half filled, then add the rest of the water or fluid fertilizer. Provide sufficient agitation during mixing and application to maintain a uniform mixture.

Tank Mixed: Refer to the sections on this label for recommended tank mixes. Always refer to labels of the tank mix partners for mixing directions and precautions. Do not exceed label dosage rates, nor combined maximum seasonal doses for mesotrione, S-metolachlor, or atrazine. This product cannot be mixed with any product bearing a label prohibition against such mixing. If a tank mixture is used, a compatibility test must be done. See Compatibility Test section for details on the procedure for such a test.

If the tank mix partner is compatible, fill the tank half full. Start and continue agitation throughout mixing. All return lines to the spray tank must discharge below the liquid level. Prepare the components and add in the following order:

- 1. If a wettable powder or dry flowable formulation is used, make a slurry with water and add it slowly through the screen into the tank. Agitate during the procedure.
- If a flowable formulation is used, add slowly through screen into the tank. Mixing and compatibility may be improved when a dry flowable is diluted with water before adding to the tank.
- 3. Add Lumax next.
- 4. Add Gramoxone Extra, Gramoxone Max, Touchdown, Roundup Ultra, Roundup UltraMax, Warrior® or 2,4-D and a nonionic surfactant last, if needed.
- Complete filling the sprayer tank and continue agitation. Apply as soon as possible after spray mixture is prepared. Do not leave mixture in spray tank overnight without agitation or unattended.

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COMPATIBILITY TEST

A compatibility test is recommended before tank mixing to ensure compatibility of Lumax with other pesticides. The following test assumes a spray volume of 25 gals/A. For other spray volumes, make appropriate changes in the ingredients.

Note: Nitrogen solutions or complete liquid fertilizers, excluding suspension fertilizers, may replace all or part of the water in the spray. Because liquid fertilizers vary, even within the same analysis, **always check compatibility with pesticide(s) before use.** Incompatibility of tank mixtures is more common with mixtures of fertilizer and pesticides.

Test Procedure

- Add 1.0 pt. of carrier (fertilizer or water) to each of two 1 qt. jars with tight lids. Note:
 Use the same source of water that will be used for the tank mix and conduct the test at
 the temperature the tank mix will be applied.
- 2. To one of the jars, add 1/4 tsp. or 1.2 milliliters of a compatibility agent approved for this use, such as Compex or Unite (1/4 tsp. is equivalent to 2.0 pts./100 gals. spray). Shake or stir gently to mix.
- 3. To both jars, add the appropriate amount of pesticide(s) in their relative proportions based on recommended label rates. If more than one pesticide is used, add them separately with dry pesticides first, flowables next, and emulsifiable concentrates last. After each addition, shake or stir gently to thoroughly mix.
- 4. After adding all ingredients, put lids on and tighten, and invert each jar ten times to mix. Let the mixtures stand 15-30 minutes and then look for separation, large flakes, precipitates, gels, heavy oily film on the jar, or other signs of incompatibility. Determine if the compatibility agent is needed in the spray mixture by comparing the two jars. If either mixture separates, but can be remixed readily, the mixture can be sprayed as long as good agitation is used. If the mixtures are incompatible, test the following methods of improving compatibility: (a) slurry the dry pesticide(s) in water before addition, or (b) add 1/2 the compatibility agent to the fertilizer or water and the other 1/2 to the emulsifiable concentrate or flowable pesticide before addition to the mixture. If incompatibility is still observed, do not use the mixture.
- 5. After compatibility testing is complete, dispose of any pesticide wastes in accordance with the **Storage and Disposal** section in this label.

SPECIFIC USE DIRECTIONS

LUMAX TANK MIX COMBINATIONS

Use of Spray Adjuvants With Tank Mixtures

When Lumax is used as a preemergence herbicide, and before weeds have emerged, spray adjuvants have little or no influence on performance. However, in burndown situations where the weeds have emerged and the corn has not, an adjuvant may be used with Lumax applied

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alone or when applied in tank mixture with a burndown herbicide as allowed on the individual product labels. Use only those adjuvants approved for agricultural crop use.

Preemergence Tank Mix Combinations (Applied Before the Crop has Emerged)

The tank mix partners listed below may be used in either conventional, reduced, or no-till systems and be applied by the same methods and at the same timings as Lumax unless otherwise specified in the tank mix product label. Follow all tank mix product labels for use rates and restrictions. Perform a compatibility test.

Conventional Tillage

Tank Mix	Rate (Max.)	Objective
AAtrex or other solo Atrazine products	0.5-1.3 lbs. a.i./A	Improved broadleaf weed control
Princep®	0.5-1.3 lbs. a.i./A	Improved broadleaf weed control
Warrior	3.84 fl. ozs./A	To control insects, such as cutworm

Reduced or No-Till Corn

Tank Mix	Rate (Max)	Objective
Gramoxone Max	2.7 pts./A Burndown existing wee	
Touchdown	2 qts./A	Burndown existing weeds
Roundup Ultra	2 qts./A	Burndown existing weeds
Roundup Ultra Max	1.6 qts./A	Burndown existing weeds
Roundup Weathermax	See product label	Burndown existing weeds
2,4 D	See Label	Burndown existing weeds
Warrior	3.84 fl. ozs./A	To control insects, such as cutworm

LUMAX, GRAMOXONE MAX, TOUCHDOWN, 2,4-D

In reduced or no-till corn, Gramoxone Max, Gramoxone Extra, Touchdown, and/or 2,4-D will burndown existing weeds. Gramoxone Max or Gramoxone Extra should be applied to emerged weeds when they are small. Best results are achieved when weeds are 1-6 inches in height.

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Consult the Gramoxone Max, Gramoxone Extra, Touchdown, or 2,4-D product label for further information on weeds controlled.

Early Postemergence Tank Mix Combinations (Applied After the Crop has Emerged)

The tank mix partners listed below may be used in either conventional, reduced or no-till systems and can be applied by the same methods and at the same timings as Lumax unless otherwise specified in the tank mix product label. Follow all tank mix product labels for use rates and restrictions. Perform a compatibility test.

Tank Mix Recommendations for Early Postemergence

Tank Mix	Rate (Max)	Objective
AAtrex or other solo Atrazine products	0.5-1.3 lbs. a.i./A	Improved broadleaf and annual grass weed control
Warrior	3.84 fl. ozs./A	To control insects, such as cutworm

This product is protected by U.S. Patent Nos. 5,006,158 and 5,698,493. Other patents pending. No license granted to prepare any tank mixtures other than those expressly provided herein.

AAtrex®, Bicep II MAGNUM®, Bicep Lite II MAGNUM®, Callisto™, Camix™, Dual II MAGNUM®, Dual MAGNUM®, Gramoxone® Extra, Gramoxone® Max, Princep®, Lumax™, Touchdown®, Warrior®, and the Syngenta logo are trademarks of a Syngenta Group Company.

Counter® is a trademark of BASF Corporation

Inter 8E II and Inter Plus II are brand names of TRI Chemicals, Inc.

Roundup® Ultra, Roundup® UltraMax, and Weathermax[™] are trademarks of Monsanto Company

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For non-emergency information (e.g., current product information), call

Syngenta Crop Protection at 1-800-334-9481

Syngenta Crop Protection, Inc. Greensboro, North Carolina 27409 www.syngenta-us.com

SCP 1152A-L1x xxxx (2.5 gal.) SCP 1152A-L2x xxxx (Bulk)

LUM 1152 L1-L2 AMD-1 1202 - pd - 12/14/02

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Base/Container Label 2.5, 120, 220, 330 Gallon and Bulk

RESTRICTED USE PESTICIDE (GROUND AND SURFACE WATER CONCERNS)

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.

THIS PRODUCT IS A RESTRICTED-USE HERBICIDE DUE TO GROUND AND SURFACE WATER CONCERNS. USERS MUST READ AND FOLLOW ALL PRECAUTIONARY STATEMENTS AND INSTRUCTIONS FOR USE IN ORDER TO MINIMIZE POTENTIAL FOR ATRAZINE TO REACH GROUND AND SURFACE WATER.

Lumax™ Selective Herbicide

A Preemergence Herbicide for Control of Annual Grass and Broadleaf Weeds in Field Corn, Field Production Seed Corn, and Field Silage Corn

Active Ingredients*:

S-metolachlor: (CAS No. 87392-12-9)	29.40%
Atrazine**: (CAS No. 1912-24-9)	11.00%
Mesotrione: (CAS No. 104206-82-8)	
Other Ingredients:	
Total:	100.0%

^{*}Active ingredients per gallon: S-metolachlor 2.68 pounds, mesotrione 0.268 pounds, atrazine 1.0 pound.

KEEP OUT OF REACH OF CHILDREN.

CAUTION

^{**} Atrazine with a maximum of 0.4% related triazines.

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See directions for use in attached booklet. [2.5 Gallon]

To be used in accordance with directions for use in Lumax label booklet. [120/220/330 Gallon, Bulk]

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in Directions for Use section for information about this standard.

EPA Reg. No. 100-1152

EPA Est. 100-LA-001

2.5 gallons

120 Gallons

220 Gallons

U.S. Standard Measure

U. S. Standard Measure

U. S. Standard Measure

330 gallons

gallons

U.S. Standard Measure

U.S. Standard Measure

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Causes moderate eye injury. Do not get in eyes or on clothing. Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling and before eating, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse. Wear long-sleeved shirt and long pants, socks plus shoes and gloves. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

	FIRST AID
If in eyes	 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. Call a poison control center or doctor for treatment advice
If on skin or clothing	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
lf inhaled	 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
If swallowed	 Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
Have the produ	ct container or label with you when calling a poison control center or
doctor, or going	en de la companya de
	HOT LINE NUMBER
Fo	r 24 Hour Medical Emergency Assistance (Human or Animal)
or C	hemical Emergency Assistance (Spill, Leak, Fire or Accident),
	Call
	<u> </u>

Environmental Hazards

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate. This pesticide contains atrazine, which has been shown to be toxic to aquatic invertebrates. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas.

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Ground Water Advisory

Lumax contains the active ingredients S-metolachlor, mesotrione and atrazine.

Atrazine can travel (seep or leach) through soil and can enter ground water which may be used as drinking water. Atrazine has been found in ground water. Users are advised not to apply atrazine to sand and loamy sand soils where the water table (ground water) is close to the surface and where these soils are very permeable, i.e., well-drained. Your local agricultural agencies can provide further information on the type of soil in your area and the location of ground water.

S-metolachlor has the potential to leach through soil into ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

Surface Water Advisory

The active ingredients in this product have the potential to contaminate surface water through ground spray drift. Under some conditions, the active ingredients may also have a high potential for runoff into surface water (primarily via dissolution in runoff water) for several months post-application. These include poorly drained or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlaying tile drainage systems that drain to surface water.

A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices will reduce this product's contribution to surface water contamination.

Mixing/Loading Instructions

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Care must be taken when using this product to prevent back-siphoning into wells, spills, or improper disposal of excess pesticide, spray mixtures, or rinsates.

Check values or antisiphoning devices must be used on mixing equipment.

This product may not be mixed/loaded or used within 50 ft. of wells, including abondoned wells, drainage wells, and sink holes. Operations that involve mixing, loading, rinsing, or washing to this product into or from pesticide handling or application equipment or containers within 50 ft. of any well are prohibited, unless conducted on all impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or wash water, and rain water that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self-contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum, 110% of the capacity of the largest pesticide container or

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application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above specified minimum containment capacities do not apply ot vehicles when delivering pesticide shipments to the mixing/loading site.

States may have in effect additional requirements regarding well head setbacks and operatinal area containment.

This product may not be mixed or loaded within 50 ft. of perennial or intermittent streams and rivers, natural or impounded lakes and reservoirs. This product may not be applied within 66 ft. of the points where field surface water runoff enters perennial or intermittent streams and rivers or within 200 ft. around natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66 ft. buffer or setback from runoff entry points must be planted to crop, or seeded with grass or other suitable crop.

Tile-Terraced Fields Containing Standpipes

To ensure protection of surface water from runoff through standpipes with tile-outlets in terraced fields, one of the following options may be used:

- 1. Do not apply this product within 66 ft. of standpipes in tile-outletted terraced fields.
- Apply this product to the entire tile-outletted terraced field and immediately incorporate it to a depth of 2-3 inches in the entire tile-outletted terraced field.
- Apply this product to the entire tile-outletted terraced field under a no-till practice only when a high crop residue management practice is practiced. High crop residue management practice is described as a crop management practice where little or no crop residue is removed from the field during and after crop harvest.

Physical and Chemical Hazards

Do not use or store near heat or open flame.

Container Disposal (2.5 gal.)

Triple rinse (or equivalent) 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.

For Bulk and Mini-Bulk Containers (all bulk and mini bulk)

Container Disposal

When this container is empty, replace the cap and seal all openings that have been opened during use; and return the container to the point of purchase or to a designated location named at time of purchase of this product. The container must only be refilled with this pesticide

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product. DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transporting. Do not transport if this container is damaged or leaking. If the container is damaged, leaking or obsolete, contact Syngenta Crop Protection, Inc. at 1-800-888-8372. If not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling. Disposal of this container must be in compliance with state and local regulations.

Container Precautions

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Before refilling, inspect thoroughly for damage such as cracks, punctures, bulges, dents, abrasions, and damaged or worn threads on closure devices.

For Mini-Bulk Containers (all bulk and mini-bulk)

REFILL ONLY WITH Lumax herbicide. The contents of this container cannot be completely removed by cleaning. Refilling with materials other than Lumax will result in contamination and may weaken container.

After filling and before transporting, check for leaks.

Do not refill or transport damaged or leaking container.

Circulation before dispensing is required.

DO NOT USE MINI-BULK CONTAINERS FOR THE STORAGE OF FOOD, FEED, OR DRINKING WATER!

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Syngenta Crop Protection, Inc. Greensboro, North Carolina 27409 www.syngenta-us.com

SCP 1152A-L1x xxxx (2.5 gal.)

LUM 1152 L1-L2 AMD-1 1202 - pd - 12/14/02