

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

7-19-07

Syngenta Crop Protection, Inc. P.O. Box 18300 Greensboro, NC 27419-8300

Subject: EPA Reg. No. 100-1152 / Lumax Atrazine RED Label Amendment

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provided the following changes are made to the label:

- 1. Change the Hazards to Humans and Domestic Animals statements to "Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.".
- 2. Per the metolachlor RED add the following text to the PPE section "chemical resistant headgear for overhead exposure".
- 3. Change the early entry PPE to "Coveralls over short sleeve shirt and short pants, Chemical resistant gloves made of any waterproof material, chemical resistant footwear plus socks, and chemical resistant headgear for overhead exposures".
- 4. To the application instructions add "Do not rotate to food or feed crops other than those listed on this label." and remove any contradictory language from the label.
- 5. Add a 45 day PHI for sweet corn forage to the label.
- 6. To the Conditions of Sale and Limitation of Warranty and Liability section change "All such risks" to "To the extent consistent with applicable law, all such risks", "Syngenta makes no other" to "To the extent consistent with applicable law, Syngenta makes no other", "In no event shall" to "To the extent consistent with applicable law, in no event shall", and "the exclusive remedy" to "To the extent consistent with applicable law, the exclusive remedy".

Amended labeling will supercede all previous accepted ones. A stamped copy of labeling is enclosed for your records. Please submit one copy of your final printed label. If you have any

questions please call Erik Kraft at 703-308-9358.

Sincerely,

James A Tompkins

Product Manager 25

Herbicide Branch

Registration Division (7505P)

ACCEPTED W/comments

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide

registered under EPA Reg. No.

100-1152

PULL HERE TO OPEN

# RESTRICTED USE PESTICIDE

(GROUND AND SURFACE WATER CONCERNS)

FOR RETAIL SALE TO AME 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 RETTRUITED-USE MERBEIDE DUE TO GROWND AND SURFACE WATER CONCERNS. USERS MUST READ AND MALOW ALL PRECEDITIONARY STATEMENTS AND INSTRUCTIONS FOR USE IN ORDER TO MINIMIZE POTENTIAL FOR ATRAZME TO SEACH GROWND AND SURFACE WATER.

# (LUMAX.

# Selective Herbicide

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

Active Ingredients\*

Simetolachion (CAS No. +1/92 12-1)	29.40%
Attrazine\*\*: (CAS No. +1/92 12-1)	11.00%
Mesotrione (CAS 140, 1042)6-22	2.94%
Other Ingratients	56.66%
Total	100.00%

\*\* Active ingredients per gallon: 5 for leaction 2 lie pounds. Me atrion=3,258 peop lib, and Atrazine 1.0 pound.
\*\* Atrazine lath a month, in 1984 and 1994 and 1994 area.

# KEEP OUT OF REACH OF CHILDREN. CAUTION!

See additional preciousor: y surceives and director for use inside booklet.

TOT USE INSIDE BOOKING
EPA Reg. No. 100 1152 FPA Est. 100-LA-UC?

SCP 1152A-L10 0105

2.5 gallors

syngenta

# Lumax<sup>®</sup>

	FIRST AID
If in eyes	Hold or open and rinse slowly and gently with water for 15-20 minutes.     Remove contact isnses, if present, after the first 5 minutes, then continue rinsing evo.     Call a Poisian Control Center or doctor for treatment advice.
If on skin or clothing	Tails off contactinated clothing. Ring in immediately with plenty of water for 15-20 minutes. Call a Poison Control Center or doutor for treatment advice.
If inhaled	Move person to fresh sit     If person is not breathing, call \$11 or an ambulance, then give artificial respirition, 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 thereon so a glass of water if able to swallow. Do not induce vorniting unless teld to do so by a poison control center or doctor.  Do not give anything by mouth to an unconscious person.
Have the prod going for treat	uct contains for lacel with you when calling a poison control center or doctor, or thent.
ayalang diselektion - recorder forester , direction and ex	HOT LINE NUMBER  For 24 Hour Modical Emergency Assistance (Purnan or Animal) or Chemical Emergency Assistance (Spill), Leak, Fire or Accident),  Call 1-200-886-8372

# PRECAUTIONARY STATEMENTS

# HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

Causes moderate ege intery. Do not get in eyes or on clothing. Avoid contact with skin or dothing. Harmful if swallowed. Which theroughly 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 parts, socks plus shoes and gloves. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

# Personal Protective Equipment (PPE)

Some materials that are themical-resistant to this product are listed below. If you want more options, follow the instructions for Category Alon an EPA Chemical-resistant Category Selection Chart.

# Mixers, Loaders, Applicators and other handlers must wear:

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant alexes. Category A.F. ig. but rict lams be a servit rubber, nutrile rubber, neoprene rubber, natural rubber, polyctaylene, polyvinyl chloride (PVC) or viton)
- Chemical-resistant footwear plus socks
- Chemical-resistant apron when mixing/loading, cleaning up spills, or cleaning equipment, or otherwise exposed to the concentrate.

See engineering controls for advartional requirements.

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

Aerial application is problimed

# **Engineering Control** Statements

When applicators use class of 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) (5)], the handler PPE requirements may be or duced or modified as specified in the WPS.

Aerial application is problemed.

# **User Safety Recommendations**

# Users should:

- · Wash hands before eating drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/FPE initial diately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove FPE immediately after handling this product. Wash the outside of gloves before removing. As soon its possible, wash thoroughly and change into clean clothing.

# 5/19

# **Environmental Hazards**

This product is toxic to aquatic line nebrates. 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 week 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. Do not apply when weather conditions favor drift from treated areas.

# Ground Water Advisory

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

Atrazine can travel (seep or leads) 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 leamy 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-metolachior has the contential to leach through soil into ground water under certain conditions as a result of agricultural use. The 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 the ditions, the active ingredients may also have a high potential for runoff into surface water (primerity via dissolution in runoif water) for several months post-application. These include poorly drained or svet 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 runose. 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 ribsates.

Check valves or antisiphology devices must be used on mixing equipment.

This product must not be mixed/loaded or used within 50 ft of wells, including abandoned wells, drainage wells, and sin) holes. Operations that involve mixing, loading, rinsing, or washing of this product into or from postic do handling or application equipment or containers within 50 ft. of any well are prohibited, onto is conduct into an 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 tall 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 immoded pad shall be of sufficient capacity to contain, at a minimum, 110% of the capacity of the largest posticide container or application equipment on the pad. A pad that is covered by a roof of sufficient rapacity of 100% of the capacity of the largest posticide container or application from contains with the pad shall have a minimum contains on the pad. Containment capacities as described above shall be maintained at all times. The above upg ified in nimum containment capacities do not apply to vehicles when delivering posticide shipments to the mixing/loading site.

Additional State imposed triquitements regarding well head setbacks and operational area containment must be observed.

This product must 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 at impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66 ft. buffer or settrack from runoff entry points must be planted to crop, or seeded with grass or other suitable crop.

# Tile-Outletted Terraced fields Containing Standpipes

One of the following restrictio, a must be used in applying atrozine to tile-outletted terraced fields containing standpipes:

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

# Physical and Chemical Hazards

Do not use or store near that or can flame

### Lumax\*

# CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entrie Directions for the 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 accordanced with the united this product. Crop injury, ineffectiveness or other unintended consequences may result include of such factors as manner of use or application, weather or crop conditions, presence of other charterals or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROF PROTECTION, Inc. or Sefer. 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 his product conforms to the chemical description on the label and is reasonably fit for the purpose istated 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 cost any to abel instructions, or an der abnormal conditions or under conditions not reasonably toresconably to or beyond the control of Seller or SYNGENTA, and Buyer and User assume the tisk 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 SYNGERITA or Seller be liable for any incidental, consequential or special damages resulting from the use or hindling 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 UNICLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OF 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 office this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement sign of my a duly authorized representative of SYNGENTA.

# DIRECTIONS FOR USE

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

ANY USE OF THIS PRODUCT IN A LAREA WHERE USE IS PROHIBITED IS A VIOLATION OF FEDERAL LAW. Before using this product it, you must consult the Atrazine Watershed Information Center (AWIC) to determine whether the use of this product is prohibited in your watershed. AWIC can be accessed through wave-the-linear or above 150 or 1-866-865-3014, if use of this product is prohibited in your watershed, you may return to your point of purchase or contact Syngenta Crop Protection, Inc. for a refund.

Lumax should be used only in accordance with recommendations on this label or in separately published Syngenta supplemental Libelian recommendations for the product.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only problemed hadders may be in the area during application. For any requirements specific to your State or finde, consult the one sty 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 remembourss, and handlers of agricultural posticides. It contains requirements for training decontain institution, notification, and emergency assistance. It also contains specific instructions under deprions pertaining to the studements on this label about personal protective equipment (PTI), and restricted entry interval. The requirements in this box only apply to uses of this product out 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 soli-injected or soli-incorporated, the Worker Protection Standard, under certain cords intervely, allows workers to enter the treated area if there will be no contact with anything that has been treated.

For early entry to treating are in that is permutted under the Worker Protection Standard and that involves contact with they like in this has been treated, such as plants, soil and water, wear:

- Coveralls over short, it excel court and short pants
- · Socks and chemical it sist not be obvious
- Chemical-resistant Grove. Catagory A (cas, barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyestylena, polyvinyl chlorida (PVC) or viton)

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

Note: Not for sale, use, or distribution in Massau County or Sulfolk County, New York.

# **GENERAL INFORMATION**

Lumax may be used in the culture of field corn, field corn seed corn, and field corn silage. Lumax may also be used in the culture of swinds corn and yellow popcorn, but the application must be made prior to crop emergence, or severe crop injury may occur.

Lumax is a selective herbicine recommended for preemergence use for control of most annual grasses and broadleaf weeds in the corn types described above. Lumax may also be applied early postemergence for the control of broadleaf weeds in field corn (pre-emergence only in sweet corn and yellow popcorn). See Table 1 and 2 for a list of weeds controlled. Lumax will not provide adequate control of most grasses that are emerged at the time of application.

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

- When tank mixing or sequentially applying atrazine or products containing atrazine with Lumax to corn, do not exceed an products or rate of 2.0 pounds active ingredient of atrazine per acre for any single application and the toler member of atrazine application and the toler members of atrazine application and per acre must not exceed 2.5 pounds active ingredient per acre pur yillo.
- Maximum broadcast application rates for atrazine in corn must be as follows:
  - If no atrazine was applied prior to corn emergence, apply a maximum of 2.0 lbs. a.f./A broadcast.
     If a postemergence treatment is required following an earlier herbicide application, the total atrazine applied may not exceed 2.5 lbs. a.i./A per calender year.
  - Apply a maximum of 2.0 lbs a i/A as a single preemergence application on soils that are not highly erodible or on highly crodible soils (as defined by the Natural Resource Conservation Service) if at least 30% of the soil is covered with plant residues.
  - Apply a maximum of 3.6 fb, a.i./A as a single preemergence application on highly erodible (as
    defined by the Natural Resource Conservation Service) soils if <30% of the surface is covered with
    plant residues; or 2.0 ft s. p.3./A if only applied postemergence.</li>

#### **USE PRECAUTIONS**

Read all label directions before using.

- Do not apply this product three shappy by glocarigation system.
- Do not apply under conditions which favor runoff or wind erosion of soli containing this product to nontaiget areas.
- . To prevent off-site movement durito runoff or wind erosion:
  - Avoid treating powricity 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 failwater from the first flood or furrow irrigation of treated fields to treat nontarget crops, unless at least 1/2 inch of rainfall has occurred between application and the first irrigation.
- Where reference is mode to words 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.
- Dry weather following preomergence application of Lumax or a Lumax tank mixture may reduce effectiveness. Cultivate if weeds develop in conventional tillage corn.
- Observe all precautions and line stions on the label of each product used in tank mixtures.
- Thoroughly client sprayer or office 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 closiding of the application device may occur.
- This product will not provice consistent control of emerged grass weeds.
- Do not apply more than 3 qts. of turnex per growing season.
- Do not apply other medicitions containing products (Camix®, Caliisto®, or Lexar®) to ground that
  has been treated with Lumax in the same season.
- Do not apply Lumax postemergence (emerged corn) to corn that has received an at-plant application of Counter® inscriticide as severe corn injury may occur. Temporary corn injury may occur if Lumax is applied to energed corn where organophosphate insecticides other than Counter were applied at planting
- Do not make postemargance (animged corn) applications of Lumax in a tank mix with any organophosphate or carbamate inservices, or severe corn injury may occur.
- Do not make a poster edgence (emerged corn) application of any organophosphate or carbamate insectide within 7 days before a 7 days later a Lemax application, or severe corn injury may occur.
- Do not use Lumax on any crop other than field corn (for grain, seed, or silage), sweet corn (preemergence applications only), or yellow popcorn (pre-emergence applications only).
- Do not use Lumax in the toltare of white popcorn or ornamental (Indian) corn or injury may occur.
- Do not contaminate arragarion water used for crops other than field corn or water used for domestic purposes.
- · Avoid drift onto acted in cross.

- · Avoid spray overlap, as crop incury may result.
- . Do not allow Lumax to contaminate feed or food.
- . Do not store Lumax near series, fertilizers, or foodstuffs.
- All containers of taimes: usi be kept tightly closed when not in use.
- · Do not use aerial application to apply summs herbioids.
- Do not apply Lunax to sweet corn or yellow popcorn after the crop has emerged or severe crop injury may occur.

Applied according to a rections 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 day weather, insight or plant disease attack, carryover posticide residues, the use of certain soil applied systemic insightides, improperly placed fertilizers or soil insecticides, may weaken crop seedlings. Lumax until pind in these conditions could result in crop injury.

# RESISTANCE MANAGEMENT

Naturally occurring bioty; is of diction provided weed species with resistance to triazines or ALS inhibiting herbidides are known to exist. Hereever, no known resistance to this product exists and there are no known inscenses 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 the rare listed in Table 1 and 2.

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

# INTEGRATED PEST (WELD) MANAGEMENT

Lurnax may be integrated into an overall pest management strategy. Practices known to reduce weed development (tillage, creat 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 or which the application is to be made must be known or determined prior to application. The per rate of cumax 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 12 inches tall. Lumax is not recommended on soils with greater than 10% organic matter, or poor weed control may result.

# **RATE LIMITATIONS**

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

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

# REDUCED AND NO-THL SYSTEMS

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

# **WEEDS CONTROLLED**

Lumax applied as directivit 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 recombinations. Always consult the tank mix product labels for specific rates and use directions.

# Lumax€

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

Common Name	Wood Type!	Scientific Name	C = Control PC = Partial Control
Sarnyaregrass		Echinochioa crus yalli	C C
Brisdy starbur	6	Acanthospermum hispidum	С
Ircad eaf signalgrass	G	Brachiaria platyphy la	PC
Prowntop particula:	seria comercia comina	Panicum fasciculate n	С
iuffalebur	+?	Salanum rostratum	C
Carpetweed	·	Mollugo verticilista	c
Cocklebur, common	8	Yanthium strumaric m	PC
žrabgrass	5	Digitario spp.	C
rowłociasus	raine i este de minima de la composition della c	Buctyloctenium vegyptum	c
fall panicum		Prinicum dichosimillarum	
ield sandbur		Cenchrus incertus	PC
Torida beggarweed	igas are cano o o o o o o o o o o o o o o o o o o	Desmodium tortuosum	
lorida pusley		Richardia scebra	1 c
oxtail millet		Setaria italica	
Salinsoga		Galiusoga parvillora	<del>c</del>
Giant foxtail		Setaria faberi	- <del>                                    </del>
Soosegrasa		Heusine indica	Ē
Green foxial		1 Serala viridis	
Hemp sesbania	F:	Serbania exaltata	1 c
imsonweed		Datura stramonium	- <del> </del>
(ochia	,, B	Kochia scoparia	~ <del>`</del>
ambsquarters, common		Grenopodium album	— <del>-</del>
Morningolory, ivyleaf:	8	Ipomoea hederacea	PC
Narrowleaf signalgrass	G	Brachiaria piligera	C
Nightshade, black		Sclanum nigrum	- T
Vightchade, castern black		Solanum ptycanthum	
Nightshade, nairy	8	Solarum sarrachordes	<u> </u>
Palmer amaranth	8	Amaranthus palmeri	C
Powell amaranti	8	Amaranthus powellä	<del>-   -   -   -   -   -   -   -   -   -  </del>
Prairic cupgras	(i	Eriochloa contracta	
Prickly sida	B	Sida spinoso	PC
Pursiane, common	**************************************	i Portulaça oloração	
Ragweed, common	is a management	Ambrosia artemisidoria	PC
Ragweed, glant	B	Ambrosia trifiga	PC
Red rice		→ Ory :a sativa	Č
Red sprangletop	G	Lep orhioa liliformis	č
Redroot pigweed	in and the second	An eranthus retroflexus	- T
Robust foxtail (purple, white)	()	Setaria spp.	C
Seedling johnsorgrass	6	Sorghum hatepense	PC
Shattercane	G	Sorghum bicolos	PC
Smartiveed, ladysthurr b	i,	Folygonum persicaria	c
Smartweed, Pennsylvania	£	Polygonum pensylvanicum	c
Smooth plg-veed	i 3	Amaranthus hybridus	<b>C</b> .
Southwestern coograss	(5	Lilochloa gracilis	
Sunflover, co mnon	) ************************************	Hellanthus annus	PC
Texas panicum	6	Panicum texamum	PC
Velvetleaf		Abution theophrasii	- <del>'</del> c
Venise roallow	for a management	Hibseus thorum	Č

continued...

Table 1. Weeds Controlled or Pastrally Controlled by Preemergence Applications of Lumax (continued)

Common Name	Voted Type!	Scientific Name	C = Control PC = Partial Control
Waterhemp, common	8	Amaranthus tuberculatus	C
Waterhemp, tail	. 8	Amaranthus rudis	C
Wild buckwheat	9	Polygonum convolvulus	C
Wild mustard	B	Brassica kaber	C
Wild proso miliet	Č3	Panicum miliaceum	PC
Wild radish	8	Raphanus raphanistrum	ζ
Witchgrass	G	Panicum capillare	ι τ
Woolly cupgrass	6	Eriochica villos :	PC
Yellow foxtari	G	Setaria glauka	С
Yellow nutredge	5	Cyperus esculentus	c

¹B=8roadleaf, G=Grass, S=5educ

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 cultivation is recommended as soon as weeds emerge.

Table 2. Weeds Controlled or Padiably Controlled by Early Posternergence Applications of Lumax

Common Nanie	Weed Type!	Scientific Name	C = Control PC = Partial Control
Broadreaf signalgrass	G	Brochiaria platyphylla	Ç2
Buffalobur	8	Sofanum rostraturo	С
Carpetweed	fi	Mollugo verticiliata	C
Cocklebur, common	A	Kanthium strumarium	C
Crabgrass, large	(i)	Digitaria sanguinalis	C2
Dandelion	3	Taraxacum officinale WEBER	PC
Florida beggarweed	8	Desmodium tortuosum	ζ
Florida pusiey	0	Richardia scabra	C
Galinsoga	B	Galansoga parviflore	C
Hemp	F.	Cannobis sativa L.	C
Hemp sesbania		Sesbania exaltata	C
Horsenettle	: B	Splanum carolinense	c
Horsevæed	B	Conyza canadensis	C
Jimsonweed		Datura stramonium	C
Kochia	ß	Rochia scoparia	C
Lambsquarters, common	3	Chenopodium album	C
Marestail	.3	H-ppuris vulgaris L.	C
Morningglory, ivyleat/ entireleaf		lpomoea hederacea.	C
Nightshade, black	; ii	Solenam nigrum	C
Nightshade, eastern black	1	Solanum ptycanthum	C
Nightshade, hairy		Solenum saracheides	С
Palmer amaranth	÷:	Ameranthus paime i	C
Powell amaranth		Amaranthus powcilli	C
Pokeweed	i B	Hyto:acca americana	C
Potatoes, volunteer	. 1	Solanum spp.	C
Prickly sida	7	Sida (pinosa	C
Purstane, common	3	Portulaça oleracijo	C
Ragweed, common	3	Ambros a artemisafolia	C
Ragwred, giant	1 3	Ambrosia trifida	1 C

continued...

# Lumax®

Table 2. Weeds Controlled or Partially Controlled by Early Posternergence Applications of Lumax (continued)

Common Name	Viced Type <sup>1</sup>	Scientific Name	C = Control PC = Partial Control
Redroot plaweed	3	Amaranthus retroflexus	C
Smartweed, ladysthumb	- 6	Polygonum persicatia	C
Smartweed, Pennsylvani.	13	Polygonum pensylvaricum	(
Smooth pigweed	8	Amaranthus hybridus	C
Sunflower, common	В	Helianthus annus	C
Thistle, canada	5	Cirsium arvense (L.) SCOP.	- c
Velvetleaf	2	Abutiion theophrasti	C
Venice mailow	8	Hibiscus trionum	C
Waterhemp, common	8	Amarenthus tuberculatus	c
Waterhemp, tall	£.	Amaranthus rudis	c
Wild buckwheat	8	Polygonum convolvulus	C
Wild mustard	6	Brassica kaber	C
Wild radish	-;	Raphanus raphanistrum	, c
Yellow nutseage	3	Cyperus esculentus	PC
MARTIN AND AND AND AND AND AND AND AND AND AN		£	

¹BœBroadleat, G∞Grass, 5- teoge

2Apply before the weed to condo 2 inches in height

Lumax will not provide consistent control of emerged grass woeds.

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

Do not apply Lumaic to sever troom or yellow popcom after the crop has emerged, or severe crop injury may occur.

#### **ROTATIONAL CROPS**

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

- Do not rotate to crops other than corn (all types), cotton, small grain cereals, soybeans, sorghum or peanuts the spring following repurcation of Lumax.
- Do not graze or feed to age or fodder from cotton to livestock, or illegal residues may result.
- Injury may occur to soybeins printed the year following application on soils having a calcareous surface layer if addition if an exine or attrazing-containing products are used.
- In eastern parts of the Dakotas, r.S., 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 (46), or soybean injury may occur.
- If Lumax is applied after June 1, rotating to crops other than corn (all types) or sorghum the next spring, may result in crop injury.
- 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 (at types) or sorghum is to follow field corn, or a crop of
  untreased corn (all types) or sorghum is to precede other rotational crops.
- Winter wheat, barley, or eye may be planted 41/2 months following application.
- · For all other crops, wait 18 months

# **APPLICATION PROCEDURES**

# **ADJUVANTS**

Where Lumax is applie I after the field corn has emerged, a non-ionic surfactant at 0.25% v/v (1 qt/100 gais.) may be used. The use of crop oil concentrate (COC) may result in temporary crop injury. If used, add COC at a rate not to exceed 1% v/v (1 gal/100 gais.) or not more than the equivalent of 1 qt/A. Do not use not open bised adjuvants (AMS or UAN) or methylated seed oil (MSO) with Lumax when applied alon, to reorged field corn, or when Lumax is applied as a postemergence tank mixture with other products, used as directed for a specific tank mix on this label or as part of a supplemental Lumax lates. Any of these adjuvants may be used at a preemergence or preplant timing, i.e. where the corn crop has not yet emerged to increase burndown activity on existing weeds. Do not apply Lumax to everged sweet corn or yellow popcorn, or severe crop injury may occur.

For Lumax tank mixtures with Liberty® Herbicide applied to emerged field corn (LibertyLink® hybrids only), AMS may be added as directed on the Liberty label. However, AMS should be the only adjuvant added to this tank mixture, or macre crop injury may occur.

Early Proplant: Lumax of exposing procupies to delys prior to arentical

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

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

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# Lumax<sup>®</sup>

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

Row width in inches

Row width in inches

Rate per acre for a broad ast treatment a Amount needed per acre

Early Postemergence: Lo into, may be implied after field corn emergence. See the "Adjuvants" section of this label for adjuvant recommit dations. Do not apply early post-emergence to field corn in liquid fertilizer or severe propingly may occur. Apoly this treatment to small broadled weeds (less than 3 inches tall). Occasional field corn local burn may result, but this thin affect later growth or corn yield. Do not apply turned to emerged sweet corn or yellow popiorn or severe crop injury may occur. Postemargence applications to field corn must be made before crop reaches 12 inches in height.

This product will not provide consistent control of emerged grass, words. For control of emerged grass weeds a grass herbicide tablemia table mixing be required (see tank mix section of this label). Tank mixes of AAtrex can improve control of emerged annual grass and broadleaf weeds. Refer to the AAtrex label for weeds controlled and use restrictions.

If Biced II MAGNUME, Free Life II MAGNUME, AAtrex (attazine), Dual MAGNUME, or Dual II MAGNUME alone or in rack mixtures have been applied early preplant, preplant surface, preplant incorporated, or preemorphise, limit the Lumax early post application to not exceed a total of 2.5 lbs. of active ingredient of Attazine or 3.75 lbs. of 5 metalachlor active per acre, or illegal residues may result.

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

Preharvest Interval (PHI): % Id core may be treated up to 12 inches tall. Do not harvest forage, grain, or stover within 50 days of the appropriation.

Sprinkler Irrigation: Do not apply Lumax by sprinkler irrigation. Use a sprinkler system only to incorporate Lumax lefter application. After Lumax has been applied, a sprinkler irrigation system set to deliver 1/2-4 inch of water play his red to incorporate the product. Using more than 1 inch of water could result in reduced performunce. On candy soil low in organic matter, use no more than 1/2 inch of water. Do not use flood irrig, Usin to apply or incorporate Lun ax.

# **CULTIVATION**

Should weerls develop, a stalloan estavation or rotary lineing will generally result in improved weed control. If Lumax was incorporated, cultivate less than half the depth of incorporation.

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

# SPRAY EQUIPMENT

# Ground Application

Spray nozzles should be emformly spaced, the same size and type, and should provide accurate and uniform application. Use spray nozzles that provide medium to course droplet size to avoid drift yet provide good coverage. Ensure that all indials strainer and nozzle screens in the sprayer are 50-mesh or coarser. Use a pump that can indiatal 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 at long as adequate coverage is maintained. Always ensure that agitation is maintained and improve than 5 minutes, re-suspend the spray solution by running on full agitation prior to spraying.

Preemergence: Apply in a surey volume of 10 80 gais.A.

Early Postemergence: Social wised 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, is a print the end on to give uniform coverage. Apply in a spray volume of 10-30 gall/A Whether the country is a ray, and minimine apply related 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 as neitral an of the crop and provide better coverage.

# Spray Drift

AVOIDING SPEAY DIRECT AT THE ARE LOCATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR. The interaction of equipment and would enrelated factors determine the potential for drift. The applicator is responsible for considering these factors when making an application decision.

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

# Lumax®

# 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 peoply 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 unravariable environmental conditions.

# Controlling Droplet Siz-

- Volume Use high flavo rate nozzies to apply the highest practical spray volume. Nozzles with higher rared flows produce larger droplets.
- Pressure Do not exercit the notate manufacturer's recommended pressures. For many nozzle types, lower pressure pressure pressure droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increment, 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 soray segles produce larger droplets. Consider using low-drift nozzles.

# **Application** Height

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

# Wind

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

Leave a sufficient buffer deproved of the application to avoid drift to sensitive crops. This buffer may be untreated com rows or field border species maintained for this purpose. The width of the buffer needed for a specific application with 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 to trict 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 as a and often continue into the morning. Their presence can be indicated by ground fog; however, if fog a not present, inversions can also be identified by the movement of smoke from a ground source of an alteralit smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under loss wind conditions) indicates an inversion, while smoke that moves upward and repidly displaces, incomes good vertical air mixing.

# Sensitive Areas

Lumax herbidde should only but 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 plowing 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 notables with clean water.
- 2 Prepare a cleaning solution of a gal, of household ammonia per 25 gals, of water. Many commercial spray tank cleanurs—as 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 planning. 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, varay lines, and negates for at least 1 minute with the cleaning solution.
- 5. Dispose of ripsate from mean 1-3 in an appropriate manner.
- 6. Repeat step: 2-5
- Remove nozzles, sere and strainers and clean separately in the ammonia solution after completing the above preseduce.
- 8. Rinse the complete spraking system with clean system

# MIXING PROCEDURES

# CARRIER

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

#### ADDING TO SPRAY TABLE

The spray tank must be  $(\cdot)$  an, thoroughly rinsed and decontaminated before adding either Lumax alone or with tank  $mix \downarrow -$  ness. If water is used as the carrier, use clean water.

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

Tank Mixed Ref. (at the coordinate his label for recommendate the mixes. Always refer to labels of the tank mix partitions for a sum of an atomic and precommendate the mixed label dosage rates, nor combined maximum sectional down for mesotrione, 5-metolaction, or atrazine. This product cannot be mixed with any product charring a label prohibition against such mixing. If a tank mixture is used, a compatibility test most in dotal Sec Compatibility Test section for details on the procedure for such a test.

If the tank mix partner is con partner, is the tank half full. Start and continue agitation throughout mixing. All return lines to the spacy tank must discharge below the liquid level. Prepare the components and add in the forces inglander.

- If a wettable powder or dry fromable formulation is used, make a slurry with water and add it slowly through the some name the tank. Agitale during the procedure.
- If a flowable formulation is used, additionally through screen into the tank. Mixing and compatibility may be improved when a dry flowable is diluted with water before adding to the tank.
- Add Lumax and any tonk mix products next, by adding dry products first, flowables next, and emulsifiable concentrates by t
- 4 Add an arbuvant long if the long
- Complete filling the property contains and continue agritation apply as soon as possible after spray mixture is prepared. Do not leave mixture in spray tank overnight without agritation or unattended.

# COMPATIBILITY TEST

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

Note: Nitrogen substitutes or contribute liquid fertilizers, excluding suspension fertilizers, may replace all or part of the water in the proxite rause liquid fertilizers vary, even within the same analysis, always check compatibility with perticibers) before use, incompatibility of tank mixtures is more common with mixtures of fertilizers and posticides.

# **Test Procedure**

- Add 1.0 bt. of carrier (firshlips) or water) to each of two 1 qt. jars with tight lids. Note: Use the same source of water that via bin in the firsh mak 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 nutriliters 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 pars, and the equivarphete amount of passicide(s) in their relative proportions based on recommended label rates. If more than one posticide is used, add them separately with dry pesticides first, flowables next, and a mais-flable co-maintrates last. After each addition, shake or stir gently to thoroughly mix.
- 4. After adding all impresions, purified on and tighten, and invertieach jar ten times to mix. Let the mixtures stand 15-30 minute 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 soray mixture or comparing the two jars. If either mixture separates, but can be remixed readily, the mixture includes of soray as good agitation is used. If the mixtures are incompatible, test the following methods of improving compatibility (a) sturry the dry pesticide(s) in water before addition in (b) and ½ the compatibility agent to the fertilizer or water and the other lab to the emissilicities of concentrate or flowable posticide before addition to the mixture. If incompatibility is still objected in the mixture.
- After composibility a stand is complete, dispose of any pesticide wastes in accordance with the Storage and Disposal's intion in this label.

# SPECIFIC USE DIRECTIONS

# LUMAX TANK MIX COMBINATIONS

# Use of Spray Adjuvants With Tank Mixtures

When Lumax is used as a precinciplence melbioide, and before weeds have emerged, spray adjuvants have little or no influence on cerformance. However, in burnorwn situations where the weeds have emerged and the corn fits not, an adjuvant may be used with Comax applied alone or when applied in tank mixture with a burnor when herbidde as allowed on the individual product labels. Use only those adjuvants approved for a incultural crop use. See the "Adjuvants" section under "Application Procedures" for further instructions.

# Preemergence Tank Mix Combinations (Applied Before the Crop has I merged)

The tank mix partners list. The low may be used in either conventional, reduced, or no-till systems and be applied by the same in clods and at the same timings as turnix unless otherwise specified in the tank mix product label. Follow ill tank mix product labels for use rates and restrictions. Perform a compatibility test. Timk in Parent in the 24-b are allowed, but should only be done with extreme care with regard to ensure in mpatibility in dishould be checked each time a water or carrier source, water or carrier temperature, product source, or mark mixture recipe is changed.

Tank Mix	flate (Max.)	Objective
AAtrex or other splo Atrazine products	0.5-1.25 lbs. a.l/A	Improved broadleaf and grass weed control
Princeo®	0.5-1.3 lb :: a.l./A	improved broadleaf and grass viced control
Gramoxone Max	2.7 pts/A	Burndown existing weeds
Touchdown brands	7 Q53/A	Burndown existing weeds
Roundup brands	200 product label	Burndown existing weed
Warrior	84 ff, 685 /A	To control insects, such as

# Burndown Combinations for Pedaced Tillage Situations

In reduced or no-till corplind before the crop has emerged, Lumax tank mixes with Gramoxone Max, Roundup brands or Touris down brands will buindown existing weeds. Gramoxone Max should be applied to emerged weeds when every are small. Best results are achieved when weeds are 1-6 inches in height. Consult the Gramoxone Max, Roundup brand, or Touchdown brand product label for further information on the description of the policy of the controlled and application timing.

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

The tank mix partners listed balax may be used in either conventional, reduced or no-till systems and can be applied by the same improved and at the same timings as Lumax unless otherwise specified in the tank mix product land. E. sider all tank a bi-product labels for use rates and restrictions. Perform a compatibility test. Tank a warm 2,4-D and allowed, but should only be done with extreme care with regard to ensuring a mp militry and should be checked each time a water or carrier source, water or tarrier tensorers. A pre-fact source, or tank mixture motion is changed.

Tank Mix Recommend rions are Early replained early

Tank Mix 1	Rate (Max.)	Objective
AAtrex or other solo Atrazine produces	6.5-1.25 lbs. a.U/A	improved broadleaf and annual grass weed control
Warrior	3 94 ft. oz/A	To control insects, such as cutworm
Accente	Table product label	Emerged grass control
Basis®	As per product label	Emerged grass control
Liberty (only for com hybrids designated as Liberty Line)	A pe. pr. d. at label	Emerged grass control
Steadfost®	A: per product label	Emerged grass control
Steadfast ATZ®	h per promot label	Emerged grass control

<sup>\*</sup>Consult the \*Adjuvant\* is ction of this ratio! for recommendations when applying Lumax alone or in tank mixture to emoty disloid corn.

# Lumax<sup>©</sup>

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# Lumax Programs With Glyphosace for Glyphosate Tolerant Corn

Lumax may be applied a rily posteniorgence at a rate down to 2 qts./A in tank mixture with a solo glyphosate product (e.g. Youd, Joyn or Roundup brands) that is registered for use over-the-top in glyphosate tolerant field from the groundup Ready or Agrisure \* GT Corn). To minimize weed competition with the crop, target the application of this mixture to weeds in the 1 to 2 inch range. Do not apply this mixture to corn that is greater than 12 inches tall. If the glyphosate product has a built-in adjuvant system (i.e. the product label does not ask for additional adjuvant), only spray-grade ammonium sulfate (AMS) at 8.5 lbs./199 gal should be added to this mixture. If the glyphosate product label calls for an adjuvant in addition to AMS, add a non-louid surfactant (NIS) at 0.25% viv and AMS to this spray mixture. Do not add ureal ammonium nitrate (UAN), crop oil concentrate (COC), or methylated and restrictions on the glyphosate product label.

Alternatively, Lumax may be apolled preemergence at a rate down to 2 qts./A as part of a two-pass weed control system when followed by a postemergence application of a glyphosate based product in glyphosate tolerant come (c. g. Roundup heady or Agrisure GT Corn). When used in this way, Lumax will provide reduced come obtain of the weed-listed in Table 1 for a period of 30 or more days, thus improving the timing the doublity and effectiveness of the glyphosate based product application. Follow all directions for use and a strictions on the glyphosate product label.

# Lumax Programs with Liberty for LibertyLink Corn

Lumax may be applied any periomergence at a rate nown to 2 qts/A in tank mixture with Liberty and applied over-the-top in field corn designated as LibertyLink. To minimize weed competition with the crop, target the applied on of this mixture to wreds in the 1 to 2 inch range. Do not apply this mixture to corn than is arrest of any 12 inches tall. Ammonium suifate (AMS) may be added as a spray adjuvant as directed on the table of the Nowever, AMS should be the only adjuvant added to this tank mixture. Do not add a use a sumonium entrate (DAN), crop oil concentrate (COC), non-ionic surfactants (NIS), or methyla's disend oil (MSO) type disjuvants to these mixtures, or crop injury may occur. Follow all cirections for use and restrictions on the Liberty product label.

Alternatively, Lumax may be applied preemergence at a rate down to 2 qts/A as part of a two-pass weed control system whom followed by a postemergence application of Liberty in field corn designated as LibertyLipk. When used in this way, Lumax will provide reduced competition of the weeds listed in Table 1 for a pointed of 30 or more days, thus improving the timing flexibility and effectiveness of the Liberty application. Follow all directions for use and restrictions on the Liberty product label.

# STORAGE AND DISPOSAL

Do not contaminate water, food, is need by storage or disposal.

# Pesticide Storage

Keep container tightly cless a when not in use. Do not store near seeds, fertilizers, or foodstuffs. Can be stored at temperatures as low as -10°F. Reep away from heat and flome.

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

# Pesticide Disposal

Open dumping is prohibit. 1. Where resulting from the use of this product may be disposed of on site or at an approved waste disposal racility. Rinse spray equipment. Pesticide wastes are acutely hazardous. Improper disposal of excers pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be the cool of as described above, confact your State Pesticide or Environmental Control Agency, or the Federal bus Waste Representative at the nearest EPA Regional Office for guidance.

# Container Disposal

Triple rinse (or equivalent) then other for recycling or reconditioning, or puncture and dispose of in a sanitary landfult, or by incidence in, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

For minor spills, leaks, etc. foliable all precautions on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-888-8372, day or night. If the container is damaged and making or material has been spoiled follow these procedures:

- 1. Cover spill was about the material.
- 2. Sweep into disposal contenies.
- 3. Wash area with dictes sent and water and follow with clean water rinse.
- 4. Do not allow to contaminate water supplies.
- 5. Dispose of according to instructions.

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This product is protected by U.S. Fatent N.S. 5.006,158 and 5,698,493. Other patents pending. No ficense granted to preplice any tank mixtures other than those expressly provided herein.

AAtrex®, Agrisure™ GT. Bicep II MAGNUM®, Bicep Lite II MAGNUM®, Callisto®, Camix®, Dual II MAGNUM®, Dual M #3NUM®, Gramoxone® Max, Lexal®, Lumax®, Princep®, Touchdown®, Warrior®, and the Synge 117 Torm are trademarks of a Syngemia Group Company.

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Counterily is a fordemark of BASE Corporation

Liberty<sup>19</sup> and intertyLini - tradematics of Bayer CropScience

Roundup® trademark of Monsseto Company

€2006 Syngenta

For non-emergency information (e.g., current product information), call Syngeria Crop Protection at 1-800-334-9451

Synge ita Crop Protection, inc Greensboro, North Carolina 27:409 www.xugecila.ca.com

SCP 1152A-L1D 0106

# RESTRICTED USE PESTICIDE

IGROUND AND SURFACE WATER CONCERNS

FOR RETAIL SALE TO AND UTE CHECKBY CLIFTINED APPLICATORS OR PERSONS UNDER THEIR DIRECT SUPERVISION, AND ONLY FOR 19-00. USES 1-0/16-00 BY THE CERTIFIED APPLICATOR'S CLIFTICATION.

THIS PRODUCT IN A RESERRED FASH REPORTED OUR TO GROUND AND SUBFACE WATER CONCERNS. USERS MUST REAR. AND FORLESS ALL RESCAUTIONARY STATEMENTS AND INSTRUCTIONS FOR USE IN ORDER TO MINIMIZE POTENTIAL POR ACKE THE TO REACH GROWND AND SURFACE WATER



# Selective Herbicide

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Active lagrations."		
Simetolachion (CASIV), (ETIAL) (2.5)		9.613
Atraziese** (CAS %- 15-12 /4 9)		15 Su
Mesonskie d'AS (F. 1242 Y 6, 11)		( -3
Other ingreseers	Ma. manara	5x .+
Teta!	*******	

\*Active trap species of applies of the second of a second of the second

# EFA Reg No. 1 5 117-2 FIRST AID

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©20th Seather

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# KEEP OUT OF REACH OF CHILDREN. CAUTION

Procautionary Statements

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months post application. These include poorly drained or wet sold wide enably visible slopes toward adjacent surface waters. Incipantly, Booded areas, areas overlaying attenuities, hashible yound where, areas with in-field contails or earthest that drain to surface water, areas not expatated from adjacent surface waters with vegetined fillus stript, and areas overlaying the draining systems that drain on parface waters.

that state in unfact words. A level, well maintained supplied and surface water areas to which this product is applied and surface water leaders such as ponds, streams, and prings will reduce the potential for contamination of water from month flundt of this product will be reduced by avoiding applications when raintail is forecasted to occur within 48 hours Sound errogion control practices will make the product strategies to to scrat mithin 48 hours Sound errogion control practices will make this product strategies to to surface water contamination.

Mixing/Loading Instructions

Mixing/Loading Instructions.

Let must be inlean when using this product to prevent back substancing into wells, solls, or improper disposal of backs persions, so eye instructions, or insular.

Check volves a unsuphorong devices must be used on nowing equipment.

This product insulated be mandificated or used within 50 ft. of wells, including abandoned wells, disposal waste, and usin holes.

"For exceptions to these restrictions, see the Environmental Hazards's section of the Precautionary Statement in attached booklet.

Tile-Outletted Terraced Fields Containing

Standpipes
One of the following restrictions must be used in applying arrasme to tile-outletted terraced fields containing standpipes:

sandigues

1. De not apply this product within 66 ft, of standigues as the capacited serviced fields.

2. Apply this, product to the entire tile-outletted terriced field and immediately incorporate if to a depth of 23 suches in the entire field.

3. Apply this product to the entire field outletted terraced field ender a ro-fill practice only when a high crop residue is sunappenent oracine is practiced. High crop residue is unappenent oracine is practiced. High crop residue is unappenent of described as a crop management practice, there is the oracle of the product of the product of the composition of the compositi

Physical and Chemical Hazards

Physical and Chemical Hazards
Do and as an store near or open flarine.
Perticified storage skeep container tightly dissed when not in see Do not store near seets, fertilizers, or food-stoffs. Can be stored at temperatures as love as 10°F.
Seep away from heat and flarine. Ground water contamination days be reduced by filting and flooring of permanent legach bolk storage sites with an impermable material.

Contains, it is noticed. The course for materials them.

makeral.

Containe. Disposal: Triple rinse for equivalent) then offer for recycling or reconditioning, or puncture and dispose of a sanitary bradiil, or by inchestion, or, if anknow it js. State and local authorities, by burning. If burned stay but of snoke