

U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505C) 1200 Pennsylvania, N.E. Washington, D.C. 20460 EPA Reg. Number:

Date of Issuance:

241-377

Sept.1,2004

Term of Issuance:

Conditional - Expires Sept. 30, 2008

Name of Pesticide Product:

Lightning Herbicide

NOTICE OF PESTICIDE:

x Registration Reregistration

Name and Address of Registrant (include ZIP Code):

Ms. Rebecca L. Johnston

BASF Corporation

P.O. Box 400

EFA Form/8570-6

Princeton, NJ 08543-0400

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

Your request for an unconditional registration is currently under review and your current registration (241-377) expires September 30, 2004; therefore, the Agency is extending this conditional registration to September 30, 2008 pending a responsive from our reviewers.

This product is conditionally registered in accordance with FIFRA Section 3(c)(7)(A) provided that you:

- 1. Submit and/or cite all data required for registration of your product under FIFRA Section 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA Section 4.
- 2. At this time, Agency policy concerning warranty statements is in review. After final decision on the policy has been made, the warranty language may need to be changed. Approval of this label should not be construed as a decision by the Agency that the current language is not misleading.

CONTINUED ON NEXT PAGE -	
Signature of Approving Official:	Date:
James A. Tompkins, PM-25	September 1, 2004

page 2 72155-15

- 3. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
- 4. If the conditions enumerated above are not complied with, the registration will be subject to cancellation in accordance with FIFRA Section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.
- 6. A stamped copy of the labelis enclosed for your records.

Jim Tompkins

Prøduct Manager (25)

Herbicide Branch

Registration Division (7505C)

Enclosure: stamped label

BASF

ACCEPTED
, with COMMENTS
in EPA Letter Dated

Under the Federal Insecticitie, Fungicide, and Rodenticide Act an amended, for the posticide registered under EPA Reg. No.

Lightning®

For use on CLEARFIELD™ corn hybrids only.

Active Ingredient:	
Imazethapyr (+)-2-14,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1 H-imidazol-	
2-yl-5-ethyl-3-pyridinecarboxylic acid	.52.5%
Imazapyr 2-(4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1 H-	
imidazól-2-yíl-3-pyridinecarboxylic acid	.17.5%
Inert Ingredients:	
Total	100.0%

LIGHTNING is packaged in a water soluble bag. (1 bag contains 0.084 pounds of imazethapyr and 0.028 pounds of imazethapyr as the free acid)

EPA Registration Number: 241-377 EPA Establishment Number: 241-PR-002

KEEP OUT OF REACH OF CHILDREN. WARNING!/AVISO!

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

See inside booklet for complete Precautionary Statements, Statement of Practical Treatment, Directions For Use, and Conditions of Sale and Warranty.

Net contents: 5 X 2.56 ounce packets.

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 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 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 vorniting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.	
	HOT LINE NUMBER	

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).

Note to physician: Probable mucosal damage may contraindicate the use of gastric lavage.

Precautionary Statements

Hazards to Humans and Domestic Animals

Warning! Causes substantial but temporary eye injury. Do not get in eyes, on skin or on clothing. Harmful if swallowed or absorbed through skin.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow instructions for category A on an EPA chemical resistant category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long parts
- Chemical-resistant gloves, such as butyl rubber ≥ 14 mils, or natural rubber ≥ 14 mils, or neoprene rubber ≥ 14 mils, or nitrile rubber ≥ 14 mils
- · Shoes plus socks
- · Protective eye wear

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 and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

In Case of Emergency

In case of large-scale spillage regarding this product, call:

CHEMTREC

800-424-9300

BASF Corporation

800-832-HELP

In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment.
- Your local poison control center (hospital).
- BASE Corporation (800-832-HELP)

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.

Environmental Hazards

DO NOT apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.

DO NOT contaminate water when disposing of equipment washwaters.

Groundwater Advisory and Proper Handling Instructions

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. This product may not be mixed or loaded within 50 feet of any wells (including abandoned wells and drainage wells), sink holes, perennial or intermittent streams and rivers, and natural or impounded takes or reservoirs. This setback does not apply to properly capped or plugged abandoned wells and does not apply to impervious pad or properly diked mixing/loading areas.

Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 feet of any well are prohibited unless conducted on an impervious pad constructed to withstand the weight of the heavlest 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 rainwater 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 specific minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading site. States may have in effect additional requirements regarding wellhead setbacks and operational containment.

DO NOT apply this product through any type of irrigation system.

Product must be used in a manner which will prevent back siphoning in wells, spills or improper disposal of excess pesticide, spray mixtures or rinsate.

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.

This labeling must be in the user's possession during application.

Observe all cautions and limitations on this label and on the labels of products used in combination with Lightning* herbicide. Do not use Lightning other than in accordance with the instructions set forth on this label. The use of Lightning not consistent with this label may result in injury to crops.

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, nursenes, 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 12 hours. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coverals
- Chemical-resistant gloves, such as butyl rubber ≥ 14 mils, or natural rubber ≥ 14 mils, or neoprene rubber ≥ 14 mils, or nitrile rubber ≥ 14 mils
- Shoes plus socksProtective eye wear

Storage and Disposal

PROHIBITIONS:

 DO NOT contaminate water, food or feed by storage or disposal.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: DO NOT reuse outer packaging. Dispose of outer packaging in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned stay out of smoke.

DISCLAIMER

The label instructions for the use of this product reflect the opinion of experts based on research and field use. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, herbicide resistant weed populations, or the use of, or application of the product contrary to label instructions, all of which are beyond the control of BASF Corporation (BASF). All such risks shall be assumed by the user.



resulting from use of this product in any manner not set forth on this label.

User assumes all risks associated with the use of this product in any manner not specifically set forth on this label

BASF warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the directions for use, subject to the risks referred to above. BASF DOES NOT MAKE OR AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTIES, EXPRESS OR IMPLIED AND EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. **BUYER'S EXCLUSIVE REMEDY AND BASF'S** EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF LIGHTNING. In no case shall BASF or the seller be Sable for consequential, special or indirect damages resulting from the use or handling of this product.

Uses with Other Products (Tank-Mixes) If this product is used in combination with any other product except as specifically recommended in writing by BASF Corporation, then BASF Corporation shall have no liability for any loss, damage or injury arising out of its use in any such combination not so specifically recommended. If used in combination recommended by BASF Corporation, the liability of BASF Corporation shall in no manner extend to any damage, loss or injury not directly caused by the inclusion of the BASF Corporation product in such combination use, and in any event shall be limited to return of the amount of the purchase price of the BASF Corporation product.

I. General Information

Apply Lightning* herbicide only on selected field com hybrids (CLEARFIELD*corn) warranted by the seed company to possess resistance/tolerance to direct application of certain imidazofinone herbicides. DO NOT apply Lightning to com hybrids that lack resistance/tolerance to imidazofinone herbicides. Contact your seed supplier, chemical dealer or BASF to obtain information regarding CLEARFIELD corn hybrids.

When applied as directed at the broadcast rate of 1.28 ounces per acre, **Lightning** herbicide will control or reduce competition from the weeds listed in **Table 1.**

NOTE: R = Reduced Competition

The number under Maximum Leaf Stage indicates the MAXIMUM number of leaves at which weeds should be sprayed postemergence.

DO NOT count cotyledon leaves when determining weed stage of growth.

Table 1. General Weed List

Broadleaf POSTEMERGENCE		ERGENCE
Weeds Controlled	Maximum Leaf Stage	Size (Inches)
Alligator weed	4	1.3
Anoda, spurred	2	1-2
Articholic, Jerusalem	8	6-10
Buckwheat, wild	4	1-3
Buffalobur	4	1.3
Bristly starbur	2	1-2
Carpetweed	4	1-3
Cacklebur, common	6	7-8
Bindweed, field	R	1-3
Jimsonweed	4	1-3
Knotweed	4	1-3
Kochia (non-ALS resistant)	4	7-3
Lambsquarters, common	4	1-3
Marshelder	4	1.3
Milkweed, honeyvine	4	1.3
Morningglory		
entireleaf	2	1-2
ivyleaf	4	7.3
pitted	2	1-2
smallflower	4	1-3
tall	4	1-3
Mustard sp.	4	1-3
Nightshade		
black	4 1	1-3
eastern black	4	1.3
hairy	4	1.3
Pigweed		·
pairner	4	1-3
prostrate	8	1-6
redroot	8	. 1-8
smootn	8	1-8
sorry	8	1-8
Ragweed		·
common	R	1-3
giant	4	1-3
Sage, barriyard	R	1-3
Sicklepod*		1-3
Skla, prickly	4	1.3
Smartweed		
ladystrumo	4	1-3
Pennsylvania	7 7	1-3
Spurge		
prostrate	4	1-3
sported		1-3
Sunflower	4	7-3
Vervedeat	4	1-3
Vervice Mallow	4	1-3
Thistie, Canada	R	1-3

^{*}Additional applications of other broadleaf herbicides may be necessary to control subsequent flushes of sicklepod.

4

Annual Grass POSTEMERGENCE		
and Sedge Weeds	Maximum	Size
Controlled	Leaf Stage	(inches)
Barnyardgrass	3	1.3
Crabgrass		
large	3	1-3
smooth	3	1.3
Cupgrass, wooly	3	1.3
Foxtal		
giant	6	1.6
green	3	1-3
yellow	3	1-3
Goosegrass	3	1-3
Johnsongrass		
seedling	1 8 1	1-8
rhizome		8-16
Millet, wild proso	3	1-3
Nutsedge		
purple	R	1-3
yellow	R	1-3
Panicum, fall	3	1-3
Quackgrass	3	1-3
Red rice	3	1-3
Ryegrass, kakan	3	1-6
Sandour, field	3	2
Shattercane	6	J-8
Signalgrass, broadlesf	4	
Sorghum áim um		1-3
Volunteer Com		
(non-CLEARFIELD com)	<u> 8 </u>	1-12
Wild Oat	6	1-8
Witchgrass	3	1-3

Mode of Action

Lightning® kills weeds by root and/or foliar uptake and rapid translocation to the growing points. Adequate soil moisture is important for optimum Lightning activity. When adequate soil moisture is present. Lightning will provide residual control of susceptible germinating weeds: activity on established weeds will depend on the weed species and the location of its root system in the soil.

Herbicide Resistance

Naturally occurring biotypes* of some of the weeds listed on this label may not be effectively controlled by this and/or other products with the ALS/AHAS enzyme inhibiting mode of action. Other herbicides with the ALS/AHAS enzyme inhibiting mode of action include the imidazolinones (e.g. PURSUIT*, SCEPTER*, RAPTOR*, etc.), the sulfonylureas (e.g. Accent*, Classic*, Permit*, Steadfast*, Spirit*, etc.) the sulfonamides (e.g. Python*, etc.) and the pyrimidyl benzoates (e.g. Staple*, etc.). If naturally occurring biotypes are present in a field which are resistant to this herbicide, Lightning should be tankmixed or applied sequentially with an appropriate registered herbicide having a different mode of action to ensure control.

"A weed biotype is a naturally occurring individual within a given species that has a slightly different, but distinct genetic makeup from other plants. Lightning is active against many broadleaf and grass weed species. For long term weed management, use two herbicides with different modes of action to reduce the potential for weed resistance.

Crop Tolerance

בשטעשטעשרוט פר טעעב אוז פטס

Crops growing under stressful environmental conditions can exhibit various injury symptoms which may be more pronounced if herbicides are used. Corn plants treated with Lightning may exhibit yellowing on new growth. Such effects occur infrequently and are temporary. Normal growth and appearance should resume within 1 to 2 weeks. Use of Lightning herbicide in accordance with label directions is expected to result in normal growth of rotational crops in most situations; however, various, environmental and agronomic factors make it impossible to eliminate all risks associated with the use of this product and, therefore, rotational cropinjury is always possible. Under some conditions (such as heavy texture soil, high organic matter, low pH or low rainfall) Lightning may cause injury to subsequent planted crops. See the ROTATIONAL CROP GUIDELINE section of this label for recommended rotation intervals to sensitive crops.

Soil Insecticide Information:

All soil insecticides, including labeled banded or infurrow applications, may be used in combination with Pioneer imidazolinone resistant (IR) corn hybrids and Lightning.

BASF recommends that Counter CR* and Thirmet* in banded applications may be used in combination with Lightning on imidazolinone tolerant (IT) corn hybrids.

DO NOT use Counter* 15G systemic insecticidenematicide, when Lightning will be applied to imidazolinone tolerant corn hybrids. BASF has not tested all hybrids in which the imidazolinone tolerance trait is claimed and cannot be responsible for factors which are beyond its control, such as growing conditions, environmental conditions, grower practices and the specific genetics of each hybrid tolerance to herbicide and insecticide applications.

Cultivation

For maximum weed control, cultivate 7-10 days following **Lightning** application. This timely cultivation will enhance residual weed control, especially under dry conditions.

Cleaning Spray Equipment

To avoid injury to sensitive crops, drain and clean application equipment thoroughly using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions and then triple rinse the equipment before and after applying Lightning.

II. Application Instructions

Lightning* herbicide is effective in controlling annual weeds in conservation tillage as well as in conventional production systems. Apply Lightning herbicide as a postemergence treatment to CLEARFIELD* corn when crop and weeds are actively growing. For optimal weed control apply Lightning before weeds exceed labeled height.

LIGHTNING Application Use Area, Rate and Timing:

- · Not for use in California
- In New York Not for Sale or Use on Long Island.
- Apply Lightning at a broadcast rate of 1.28 ounces per acre. At this broadcast rate, one water-soluble bag of Lightning will treat 2.0 acres of CLEARFIELD com.
- Lightning can be applied posternergence (including spike stage) on CLEARFIELD comhybrids.
- Lightning must be applied with drop nozzles (i.e. post-directed anto weeds) under the following conditions: if the corn is greater than 20 inches tall or corn has 6 or more leaf collars (V6), whichever is the more restrictive, or if the crop canopy prevents adequate weed coverage.

Delaying a Lightning application for 48 hours from the time temperatures increase above 50°F, (i.e., after air temperatures have remained below 50°F for 10 or more hours) will improve weed control and reduce the potential for crop response. Unusually cool temperatures (50°F or less) reduce photosynthesis and transpiration and thus reduce the uptake and translocation (and effectiveness) of Lightning herbicide in weeds.

Lightning should be applied a minimum of one hour before rainfall or overhead irrigation.

Ground Application Methods and Equipment: Uniformly apply with properly calibrated ground equipment in 10 or more gallons of water per acre. A spray pressure of 20 to 40 psi is recommended. DO NOT apply when wind velocity is greater than 10 mph. (See SENSITIVE CROP PRECAUTIONS section for application guidelines near sensitive crops.) To ensure thorough coverage a minimum of 10 gallons of water per acre is recommended when applying Lightning herbicide to minimum till or no-till CLEARFIELD corn. Use higher gallonage for fields with dense vegetation or heavy crop residues. Flat-fan nozzles tips are recommended for postemergence applications.

Avoid overlaps when spraying.

Aerial Application Methods and Equipment: Uniformly apply with properly calibrated aerial equipment in 5 or more gallons of water per acre. Addition of a non-ionic surfactant AND fertilizer solution are required for optimum weed control: apply a non-ionic surfactant at the rate of 1 quart per 100 gallon of spray solution OR a crop oil concentrate at the rate of 1.25 gallon per 100 gallon of spray solution. AND a liquid fertilizer at the rate of 1.25 gallon per 100 gallon of spray solution.

To avoid injury to sensitive crops from drift, berial applicators must adhere to the following SPECIAL AERIAL USE DIRECTIONS AND PRECAUTIONS.

- Nozzle height above ground must be a maximum of 10 feet.
- Nozzles must be pointed towards the rear of the aircraft. The downward angle of the nozzle should not be greater than 20 degrees.
- To minimize wing-tip vortex roll, nozzles or spray boom must not be located any closer to end of wing or rotor than three-fourths the distance from the center of the aircraft.
- Use a maximum spray pressure of 40 psi.
- A buffer zone must be established between the area to be sprayed and sensitive crops.
- DO NOT spray when wind velocity is greater than 5 mph. Coarse sprays (larger droplets) are less likely to drift.

Applicator is responsible for any loss or damage that results from spraying Lightning in a manner other than recommended in this label. In addition, applicator must follow all applicable state and local regulations and ordinances in regard to spraying.

SENSITIVE CROP PRECAUTIONS:

Lightning herbicide may cause injury to desirable trees and plants, particularly cotton, flowers, fruit trees, grapes, ornamentals, potatoes, sugar beets, sunflowers, tobacco, tomatoes and other broadleaf plants when contacting their roots, stems or foliage. These plants are most sensitive to Lightning herbicide during their development or growing stage. FOLLOW THE PRECAUTIONS LISTED BELOW WHEN USING Lightning HERBICIDE:

- Do not treat areas where either possible downward movement into the soil or surface washing may cause contact of Lightning herbicide with roots of desirable plants such as trees and shrubs.
- Avoid making applications when spray particles may be carried by air currents to areas where sensitive crops and plants are growing. Do not spray near sensitive plants if wind is gusty or in excess of 10 mph and moving in the direction of nearby sensitive crops. However, always make applications when there is some air movement to



determine the direction and distance of possible spray drift. Leave an adequate buffer zone between area to be treated and sensitive plants! Coarse sprays are less likely to drift out of the target area than fine sprays.

- Use coarse sprays to avoid potential herbicide drift. Select nozzles which are designed to produce minimal amounts of fine spray particles such as Spraying Systems XR flat fans. A spray pressure of 20 psi and spray volume at or above 20 gpa, are recommended to reduce drift to sensitive crops.
- Agriculturally approved drift-reducing additives may be used.
- To avoid injury to desirable plants, equipment used to apply Lightning* herbicide should be thoroughly cleaned (see CLEANING SPRAY EQUIPMENT) before reusing to apply any other chemicals.

III. Additives

Ground, postemergence applications of Lightning herbicide require the addition of an ADJUVANT AND a NITROGEN FERTILIZER SOURCE, QR a BASIC BLEND*

I. ADJUVANTS:

Surfactants - cleared for application to growing crops. Use a non-ionic surfactant containing at least 80% active ingredient. Apply the surfactant at the rate of 1 quart per 100 gallons. An organo-silicone surfactant may be used in place of a non-ionic surfactant.

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Crop Oil Concentrate - The use of a petroleumbased or vegetable seed-based oil concentrate or methylated seed oil with Lightning herbicide is permitted according to supplemental labeling. Refer to supplemental labeling for use directions and conditions. The supplemental tabeling must be in possession of the user at the time of pesticide application.

AND

II. NITROGEN FERTILIZER SOURCE:

Recommended nitrogen based fertilizers include liquid fertilizers (such as 28%N, 32%N or 10-34-0) at the rate of 1-2 quarts per acre. Use the higher rate when weeds are under moisture or temperature stress. Instead of a liquid fertilizer, spray grade ammonium sulfate may be used at the rate of 2.5 pounds per acre.

"Alternatively, the use proprietary "basic blend" products that contain both a non-lonic surfactant and a nitrogen source that provide equivalent spray additive activity to those additives mentioned above, may be used with Lightning herbicide. Other premixes containing a surfactant and a nitrogen source may be used as long as performance and rate guidelines for surfactant and nitrogen amounts are met.

IV. Mixing Order

DO NOT use figured fertilizer as a carrier (use water only) for postemergence applications of **Lightning** herbicide.

WATER:

- 1. Fill the spray tank 1/2 to 3/4 full with clean water.
- Add the required amount of Lightning to the spray tank while agitating.
- After the Lightning has visibly dispersed, add spray additives and fill the remainder of the tank with water. An antifoam agent may be added if needed.

SLURRY PREPARATION:

Lightning may be slumed prior to addition to the spray tank.

- Add 1 to 2-water soluble packets per gallon of water.
- Allow water soluble bags to dissolve for 3-5 minutes or until bags have ruptured.
- Agritate slurry for 10 -15 minutes or until water soluble bags are completely in solution.
- Transfer slurry to spray tank (begin spray tank agitation) filled 1/2 to 3/4 full with clean water

TANK-MIX PREPARATION:

When tank-mixing Lightning with recommended herbicides, add the other herbicides and other components in the following order, white agitating:

- 1. Fill spray tank 1/2 to 3/4 full with clean water.
- 2. Add Lightning and thoroughly mix
- 3. Add other aqueous solution products.
- Add other soluble packet products and thoroughly mix,
- Add WP (wettable powder), DG (dispersible granule), DF (dry flowable), or LF (liquid flowable) formulations.
- 6. Add EC (emulsifiable concentrate) products.
- 7. Add surfactant to the spray tank.
- 8. Add liquid fertilizer.
- While agitating, fill the remainder of the tank with water,

V. General Tank Mixing Information

When **Lightning** is used in combination with another herbicide, refer to the respective label for rates, spray additives, methods of application, proper timing, weeds controlled, restrictions and precautions. Always use in accordance with the more restrictive label restrictions and precautions. No label dosages should be exceeded.

VI. General Restrictions and Limitations

- · Only one application of Lightning* may be made during the growing season
- If replanting is necessary in a field previously treated with Lightning, the field may be replanted only to CLEARFIELD* com. Rework the soil no deeper than the treated zone. DO NOT apply a second treatment of Lightning. In the event of a crop loss due to weather, CLEARFIELD com seed hybrids can be replanted following an application of Lightning herbicide. If Lightning was tank-mixed with other herbicides, the label restrictions for these herbicides must also be followed:

 DO NOT apply Lightning within 45 days of corn harvest (silage, fodder, or grain).

 DO NOT grazé or feed treated corn forage, sitage, fodder, or grain for at least 45 days after an application of Lightning

More restrictive crop growth stage limitations of tank-mix partners must be followed.

• ROTATIONAL CROPS GUIDELINE: Use of Lightning herbicide in accordance with label directions is expected to result in normal growth of rotational crops in most situations; however, various environmental and agronomic factors make it impossible to eliminate all risks associated with the use of this product and. therefore, rotational crop injury is always possible. The following rotational crops may be planted after applying Lightning herbicide at the recommended rate in corn. Planting earlier than the recommended interval may result in crop injury:

Time after	r LIGHTNING	Application
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Crop(s) to be Grown

5.10. CO	
Anytime	CLEARFIELD corn hybrids
Four months	Rye, Wheat
Eight and one-half months	Field Corn, Field corn grown for seed*
Nine months	Soybeans
Nine and one-half months	Affalfa, Barley*. Edible beans and peas, Peanuts, Tobacco
Eighteen months	Catton**, Lettuce, Dats, Popcorn, Safflower, Sorghum, Sunflowers, and Sweet corn
Twenty six months	Potatoes
Forty months***	All crops not listed elsewhere in ROTATIONAL CROPS

*Rotational interval for barley is 18 months in the following states: ID, MT, OR (country of Malheur), and WY (counties of Bighorn, Cambell, Crook, Fremont, Hot Springs, Johnson, Park, Sheridan, Teton, Washakie, Weston).

"In the following states (AL, AR, FL, GA, KY, LA, MO, MS, NC, SC, TN, VA) refer to supplemental labeling for reduced rotational cropping intervals.

***Following forty months after a Lightning herbicide application, and before any crop not listed in the ROTATIONAL CROP GUIDELINE, a successful field bioassay must be completed. The field bioassay consists of a test strip of the intended rotational crop planted across the previously treated field and grown to maturity. The test strip should include low areas and knolls, and include variations in soil such as type and pH. If not crop injury test strip should include low areas and knows, and include variations in soil such as type and ph. If not crop injury is evident in the test strip rotational crop may be planted the following year.

Only rotational crops harvested at maturity may be used for feed or food.

BASF recommends that products containing imazethapyr (PURSUIT' PURSUIT' Plus EC) should not be applied to CLEARFIELD com the same year as Lightning or injury to follow crops may occur.

If the field is limited to adjust ph prior to planting rotational crops not listed in the ROTATIONAL CROP GUIDELINE, apply the lime at least 12 months prior to planting the rotational crop.

EXCEPTIONS TO ROTATIONAL CROP GUIDELINE

If corn is furrow irrigated, till the soil prior to planting winter wheat or barley. The beds should be broken up and the soil mixed with tillage equipment set to cut 4-6 inches deep.

*Com interest contact the seed lines may be planted the year following an application of Lightning.

Due to the proprietary nature of seed production, BASF has not been given access to the inbred data.

Growers are directed to contact the seed company for information and recommendations regarding the planting of corn grown for seed in fields treated with Lightning the previous year. Since growing conditions, environmental conditions, and grower practices are beyond the control of BASF, ALL RISKS AND CONSEQUENCES ASSOCIATED WITH PLANTING SEED CORN INBREDS INTO FIELDS TREATED PREVIOUSLY WITH LIGHTNING SHALL BE ASSUMED BY THE USER.

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VII. Crop-Specific Information

CLEARFIELD" Corn

Lightning can be applied posternergence (including spike stage) on CLEARFIELD corn hybrids.

Tank Mixes

Recommended Tank-Mix Postemergence Applications with Lightning are: CLARITY**

CLARITY**
DISTINCT**
FRONTIER
GUARDSMAN*
GUARDSMAN MAX*
MARKSMAN**
OUTLOOK
PROWL

2,4-D* Atrazine* Banvel** Banvel K + Attazine* Bicep il Magnum^a Bicep Lite II Magnum* Buctril* Buctri+atrazine* Callisto⁴ Dual II Magnum Fultime™ Harness* Harness* Xtra Shotgun** Sterling™* Sterling Plus ***
Stinger Surpass Top Notch* Tough*

"Use of crop oil concentrate or methylated seed oils in tank-mixes with Lightning with 2,4-0, atrazine, Banvel, Banvel K + Atrazine, CLARITY, DISTINCT, MARKSMAN, Shotgun, Sterling, or Sterling Plus may result in crop injury if applied during periods of cold, wet weather or hot and/or humid weather. Under these environmental conditions the use of a nonionic surfactant is recommended.

DO NOT use Lightning in combination with products containing flumetsulam, thifensulfuron or rimsulfuron (e.g. Accent Gold*, Basis*, Basis Gold*, Hornet*, Python*, Steadfast*).

Sequential Herbicide Combinations and Uses

Lightning controls many grass species. However, when heavy grass pressure is anticipated, a soil surface application of any grass herbicide underlay (such as PROWL*, FRONTIER*, OUTLOOK*, Dual II Magnum*, Doubleplay*, Harness* or Surpass*) is recommended. Lightning may also be used in sequential programs with registered burn-down herbicides.

Table 2.	
1	sted in this label:
Common Name	Scientific Name
Aligatorweed	Alternanthera philoxeroides
Anoda, spurred	Anoda cristata
Artichoke, Jerusalem	Helianthus tuberosus
Barnyardgrass	Echinochiaa crus-galii
Buckwheat wild	Polygonum convolvulus
Buitalobur	Solanum rostratum
	Acanthospermum hispidum
Bristly starbur	Molugo verticillata
Carpetweed Crabgrass, large	Digitaria longiflorai
Crabgrass, smooth	Digitaria ischaemum
Cocklebur, Common	Xanthium pensylvanicum
Cupgrass, woolly	Enochlos villoss
Bindweed, field	Convolvulus arvensis
Foxtail, giant	
	Setaria faberi
Foxtal green	Setaria vividis
Foxtail, yellow	Setaria kitescens
Goosegrass	Eleusine indica
Jimsonweed	Datura stramonium
Johnsongrass,	Sorghum halepense
(seeding, rhizome)	<u> </u>
Knotweed, prostrate	Polygonum aviculare
Kocha	Kochia scopana
Lambsquarters, Common	Chenopodium album
Mallow, Venice	Hibiscus trionum
Marsheider	Na xanthifolia
Milloweed, honeyvine	Ampelamum albidus
Millet, wild proso	Panicum milaceum
Morningglory, Entireleal	Ipomoea hederacea var.
<u></u>	integruscula
Morningglory, hyteaf	ipomoea hedenfolia
Morningglory, smallflower	Jacquemontia tamnifolia
Morningglory,	Ipomoea lacunosa
small white (pitted)	·
Morningglory,	Ipomoea purpurea
tall (common)	
Musterd	Brassica sp.
Nightshade.	Solanum ptycanthum
Eastern Black	
Nightshade, black	Solanum nigrum
Nightshade, hairy	Solanum sarracholdes
Nutsedge, purple	Cyperus rotundus
Nutsedge, yellow	Cyperus esculentus
Panicum, fall	Panicum dichotomillorum
Pigweed, palmer	Amaranthus palmer
Pigweed, prostrate	Amaranthus bitoides
Pigweed, redroot	Amaranthus retrollexus
Pigweed, smooth	Amaranthus hybridus
Pigweed, spiny	Amaranthus albus
Quackgrass	Agropyron repens
Ragweed, common	Ambrosia artemisficiia
Ragweed, glant	Ambrosie trifide
Red rice	Oryza sativa
Ryegrass, italian	Lollum multiflorum
Sage, barnyard	Saliva, sp.
Sandbur, field	Cenchrus incertus

Table 2. (Cont);

in this label (cont.):
Scientific Name
Sorghum bicolor
Cassia obtusifolia
Sida spinosa
Brechana platyphylle
Polygonum pensylvanicum
Polygonum persicana
Sorghum almum
EUphorbia humistrata
Euphorbia maculata
Helianthus sp.
Helianthus annuus
Cirsium arvense
Abusion theophrasti
Avena fatua
Panicum capitare
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Crops

This product can be used on the following crops:

Clearfield Corn Hybrids

Look inside for complete Restrictions and Limitations and Application Instructions.

Conditions of Sale and Warranty

The Directions For Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. All such risks shall be assumed by the Buyer. BASE warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions For Use, subject to the inherent risks, referred to above. BASE MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL BASE OR THE SELLER BE LIABLE FOR CONSEQUENTIAL. SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. BASF and the Seller offer this product. and the Buyer and User accept it, subject to the foregoing Conditions of Sale and Warranty which may be varied only by agreement in writing signed by a duty authorized representative of BASF.

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