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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

JUL - 1 - 1992

T.R. Nelson, Ph.D.  
Manager, Product Registration  
BASF Agricultural Chemicals  
P.O. Box 13528  
Research Triangle Park, NC 27709-3528

Dear Dr. Nelson:

Subject: Laddock Herbicide  
EPA Reg. No. 7969-54  
RE: Amended Labeling (Risk Reduction Measures)  
Your Submissions Dated June 16, 1992

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, are acceptable subject to the comment listed below. A Stamped label is enclosed for your records. Five copies of the finished label must be submitted prior to releasing the product for shipment.

1. Please amend "wetlands" statement to read as follows: "Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high-water mark".
2. On page 9, 2nd paragraph, please revise 1st sentence to read as follows:

"For postemergence applications, if there has been no previous soil application to that crop, the maximum rate of atrazine from all sources is 2 pounds ai/A.

Sincerely yours,

Robert J. Taylor  
Product Manager (25)  
Fungicide-Herbicide Branch  
Registration Division (H7505C)

CONCURRENCES

SYMBOL	H7505C						
SURNAME	Moj/111/						
DATE	7/1/92						

**BASF**

June 15, 1992

# Laddok®

## Postemergence Flowable Herbicide

For selective postemergence broadleaf weed control in field corn, seed corn, silage corn, sweet corn and popcorn; and in sorghum.

### RESTRICTED USE PESTICIDE

(Ground and Surface Water Concerns)

For retail sale to and use only by certified applicators or persons under their direct supervision, and only for those uses covered by the certified applicator's certification.

This product is a restricted use herbicide due to ground and surface water concerns. Users must read and follow all precautionary statements and instructions for use in order to minimize potential for atrazine to reach ground and surface water.

#### Active Ingredients:

Sodium salt on bentazon* [3-(isopropyl)-1H-2,1,3-	
Benzoithiadiazin-4(3H)-one,2,2-dioxide	19.0%
Atrazine* (2-chloro-4-ethylamino-	
6-isopropylamino-s-triazine)	17.5%
Inert Ingredients:	63.5%
<b>TOTAL</b>	<b>100.0%</b>

\*Equivalent to 1.66 pounds per gallon each of bentazon and atrazine.

EPA Reg. No. 7969-54

EPA Est. No. 7969-WG J1

### KEEP OUT OF REACH OF CHILDREN DANGER/PELIGRO

PRECAUCION AL USARIO; Si usted no lee ingles, no use este producto hasta que la eti queta haya sido explicada ampliamente.

Corrosive. Causes eye damage and skin irritation. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful if swallowed.

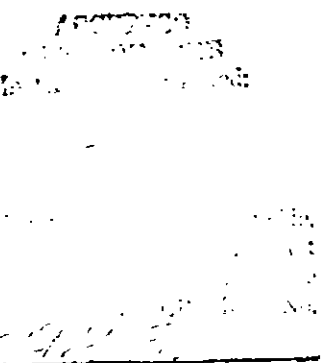
If in eyes, immediately flush eyes with plenty of water. Get medical attention. If on skin, immediately flush skin with plenty of water. Get medical attention if irritation persists. May cause allergic skin response.

SHAKE WELL BEFORE USING

Net Contents 2½ gallons

**BEST AVAILABLE COPY**

BASF Corporation  
PO Box 13528, Research Triangle Park, NC 27709-3528



Not Intended for  
Use in California

## ENVIRONMENTAL HAZARDS

Atrazine, which is present in this product, can travel (seep or leach) through soil and can enter groundwater which may be used as drinking water. Atrazine has been found in groundwater. Users are advised not to apply LADDOK to sand and loamy sand soils where the water table (groundwater) 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 groundwater.

This pesticide is toxic to aquatic invertebrates. Do not apply directly to water or wetlands. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from treated areas. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water by cleaning of equipment or disposal of wastes.

## RE-ENTRY AND WORKERS' PROTECTION STATEMENTS

Users are required to wear long-sleeved shirts and long pants or equivalent, chemical resistant gloves, and boots (waterproofed). In addition, persons involved in mixing/loading operations are required to use heavy-duty chemical resistant gloves or neoprene gloves and a face shield or goggles.

Do not apply this product in such a manner as to directly or through drift, expose workers or other persons. The area being treated must be vacated by unprotected

persons. Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

## DIRECTIONS FOR USE

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

### General Information

Laddok® herbicide is intended for the postemergence control of a broad spectrum of broadleaf weeds. LADDOK does not control grasses. LADDOK is effective mainly through contact action; therefore, weeds must be thoroughly covered with spray. Large crop-and-weed-leaf canopies shelter smaller weeds and prevent adequate spray coverage.

Corn and sorghum are tolerant to LADDOK at all stages of growth. Very slight leaf speckling of corn or sorghum may occur but plants generally outgrow this condition within 10 days.

Corn types included are field, sweet and popcorn and corn grown for seed or silage. Sorghum types include grain and forage. Always add UAN solution, oil concentrate, or Dash® spray adjuvant according to the section entitled Additive Information.

### Timing of Applications

Apply LADDOK early postemergence when weeds are small and actively growing and before weeds reach the maximum

size listed in the Application Rate Table for Corn and Sorghum. Such applications generally correspond to the crop growth stages of one to seven leaves.

Early application to weeds produces the most beneficial effect on weed control, allows use of the lower rate (depending on weed species), and makes it easier to obtain thorough spray coverage. Delay in application which permits weeds to exceed the maximum size stated will result in inadequate control.

Do not cultivate within 5 days before or after application of LADDOK in the following states: AZ, CT, DE, IA, ID, IL, IN, KS, KY, ME, MA, MI, MN, MO, MT, NE, NH, NJ, NY, NC, ND, OH, OR, PA, RI, SD, UT, WA, WI, WV, WY. A cultivation 5 or more days after application may be necessary if all weeds are not controlled or if a second flush of weeds occurs.

## WATER VOLUME AND SPRAY PRESSURE

**Ground Equipment:** Use a minimum of 10 gallons of water per broadcast acre and a minimum of 40 psi pressure (measured at the boom, not at the pump or in the line). When crop and weed foliage is dense use up to 50 gallons of water and up to 80 psi pressure. Use standard high pressure pesticide hollow cone or flat fan nozzles spaced 20 inches apart. DO not use flood or whirl chamber nozzles.

**Air Equipment:** Use a minimum of 5 gallons of water per acre and a maximum of 40 psi pressure. Use only diaphragm-type nozzles producing cone or fan spray patterns.

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## AERIAL APPLICATION SPECIAL DIRECTIONS

To obtain uniform coverage and to avoid drift hazards, the following application equipment and practices should be used:

**Nozzle Height:** Maximum of 10 feet above crop.

**Nozzle Orientation:** Nozzles must be oriented so as to discharge straight back with the air stream (opposite the direction of travel of the aircraft) or at some angle between straight back and straight down.

Nozzles must be located no farther out than  $\frac{1}{4}$  the distance from the center of the aircraft to the end of the wing or rotor.

**Water Volume and Spray Pressure:** See Air Equipment.

Do not apply LADDOK by aircraft within 200 feet upwind of ornamental or sensitive nontarget crops such as soybeans, peanuts, cotton, sugar beets, sunflowers or okra.

Applicator must follow the most restrictive use cautions to avoid drift hazards, including those found in this labeling as well as applicable state and local regulations and ordinances.

## SPECIAL INFORMATION FOR IRRIGATED AREAS

In irrigated areas, it may be necessary to irrigate prior to treatment with LADDOK to ensure weeds are growing actively. Weeds growing under drought conditions usually are not satisfactorily controlled.

## ADDITIVE INFORMATION

**Nitrogen Solution:** UAN (urea ammonium nitrate) solution or AMS (ammonium sulfate) may be added to LADDOK for improved control of velvetleaf. Improved control of cocklebur, wild sunflower, Pennsylvania smartweed, venice mallow and wild mustard may also be attained. Either nitrogen solution (UAN or AMS) should be added to LADDOK when velvetleaf is the primary target weed; however, oil concentrate should also be added when common lambsquarters or common ragweed is present. Consult the Application Rate Table for Corn and Sorghum for specific use recommendations.

UAN solution, commonly referred to as 28%, 30% or 32% nitrogen solution, is an agricultural grade fertilizer. Use only a high quality UAN solution suitable for application with herbicides.

AMS is a dry granular nitrogen source fertilizer. Several grades of AMS are currently available, however, only fine feed grade or spray grade AMS is recommended as an additive. Inferior grades of AMS do not dissolve adequately leading to plugging of spray nozzles. The use of AMS requires some preparation in mixing with LADDOK as compared to UAN. See section entitled **Mixing/Spraying for AMS**. Three quarts of liquid AMS (0-0-0 analysis) may be substituted for 2.5 pounds granular AMS.

### Rate of UAN Solution

**Ground Application:** 5% v/v (concentration); (1 gallon per acre maximum)

**Air Application:** ( $\frac{1}{2}$  gallon per acre maximum) 2  $\frac{1}{2}$  % v/v (concentration)

### Rate of AMS

**Ground Application:** 2.5 pounds per acre

**Air Application:** AMS is not recommended due to potential precipitation problems in reduced water volumes. AMS can be used provided a minimum of 10 gpa of solution is applied. Use only if the source of AMS has been demonstrated to be successful in local experience.

**Oil Concentrate of DASH:** If a nitrogen solution is not used, a nonphytotoxic oil concentrate (commonly referred to as oil concentrate) or DASH should be added to the spray tank. Use oil concentrate if Canada thistle, yellow nutsedge or field bindweed are to be controlled. The oil concentrate must contain either a petroleum or vegetable oil base and must meet the following criteria: 1) be nonphytotoxic 2) contain only EPA-exempt ingredients, 3) provide good mixing quality in the jar test (see below), and 4) be successful in local experience.

The exact composition of suitable oil products will vary; however, vegetable and petroleum oil concentrates should contain emulsifiers which provide good mixing quality. For vegetable oil concentrates, it has been observed that highly refined vegetable oils are more satisfactory than unrefined vegetable oils. For additional information see **Jar Test for Estimating Suitability of Mixes** at the end of this section.

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## Rate of Oil Concentrate or DASH:

**Ground Application:** 1.25% v/v concentration (2 pints/acre maximum)

**Air Application:** 0.625% v/v concentration, (1 pint/acre maximum)

### Jar Test for Estimating Suitability of Oil Concentrate

1. **Water Supply:** use only water from intended source and at the source temperature.

2. **Amount of Water in Jar:** For 20 gal/A spray volume use 3½ cups (800 ml) of water.

For 10 gal/A spray volume use 1½ cups (400 ml) of water.

For 5 gal/A spray volume use 5/6 cup (200 ml) of water.

For other spray volumes, adjust proportionately to above.

3 **Amount of herbicide(s) and oil concentrate (or DASH) to add:** Add herbicide(s) and oil concentrate or UAN solution at the rate of 1 teaspoon (5 ml) for each pint of recommended label rate.

4. **Add components in following sequence, gently mixing between component additions:**

1) Nitrogen solution (if used)

2) LADDOK

3) Other products (if used)

4) Oil concentrate or DASH (if used)

5. **Cap jar, invert 10 cycles.** let stand for 15 minutes, evaluate.

6. **Evaluation:** An ideal tank mix will be uniform; thus, the suitability of the oil concentrate is questionable if any of the following are observed:

**Free oil at the surface** - film or globules.

**Flocculation** - fine particles which may be suspended in the liquid or found as a precipitated layer at the bottom of the jar.

**Clabbering** - thickening texture (coagulated) resembling yogurt or a curd-like texture as with cottage cheese.

TABLE 1

APPLICATION RATE TABLE FOR CORN AND SORGHUM

WEEDS CONTROLLED	APPLICATION RATES FOR LADDOK					
	2 PINTS/A*		2½ PINTS/A*		3½ PINTS/A*	
	LEAF STAGE	MAXIMUM HEIGHT (in)	LEAF STAGE	MAXIMUM HEIGHT (in)	LEAF STAGE	MAXIMUM HEIGHT (in)
Beggarticks	---	---	---	---	Up to 6	6
Bristly Starbur	---	---	---	---	Up to 4	2
Black Nightshade	---	---	2-4	1	2-4	1
Burcucumber	---	---	---	---	3	3
Cocklebur	2-4**	3	2-10**	8	2-10**	8
Common Groundsel	---	---	Up to 4	2	Up to 6	4
Common Lambsquarters	2-6	2	Up to 8	5	8-12	8
Common Ragweed	---	---	Up to 4	4	4-7	5
Dayflower	---	---	---	---	Up to 6	4*
Devilsclaw	---	---	---	---	Up to 6	3
Eastern Black Nightshade	---	---	2-4	1	2-4	1
Giant Ragweed	---	---	Up to 4	Up to 4	4-6	6
Jimsonweed	2-4	3	Up to 6	6	6-10	8*
Kochia	---	---	---	4	---	4
Ladysthumb	2-6	4	Up to 10	10	10-14	12
Morningglory, Annual	---	---	Up to 4	4	4-6	6
Pennsylvania Smartweed	2-6	4	Up to 10	10	10-14	12
Prickly Sida or Teaweed	---	---	Up to 4	2	Up to 6	3
Redroot Pigweed	2-4	2	Up to 10	6	Up to 10	6
Smallflower Morningglory	---	---	Up to 4	4	4-6	6
Smooth Pigweed	2-4	2	Up to 10	6	Up to 10	6
Spurred Anoda	---	---	---	---	Up to 6	3
Tall Waterhemp	---	---	Up to 8	2	6-9	4
Velvetleaf***	2-4	3	Up to 8	8	8-10	10
Velvetleaf	2-4	3	Up to 6	5	Up to 8	8
Verice mallow	---	---	Up to 8	4	Up to 8	4
Wild Buckwheat	---	---	Up to 4	3	4-6	5
Wild Mustard	---	---	Up to 6	4	6-10	8
Wild Sunflower	---	---	Up to 5	6	4-6	8
Triazine Resistant Weeds	* Special Directions Below					
Yellow Nutsedge	See Special Directions Below					
Canada Thistle	See Special Directions Below					
Field Bindweed	See Special Directions Below					

\* Always add UAN solution or oil concentrate or DASH to LADDOK  
 See section Additive Information  
 \*\* Do not treat earlier than leaf stage shown and do not count cotyledon leaves.  
 \*\*\* Always add nitrogen solution, see section entitled, Additive Information.

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## MIXING/SPRAYING

Fill tank of a thoroughly clean sprayer half to two-thirds full with clean water. Start agitation; add nitrogen solution then add LADDOK; allow to mix thoroughly. If used, add oil concentrate or DASH and remaining volume of water. maintain constant agitation during application. Avoid allowing the mixture to stand overnight. Always clean sprayer thoroughly immediately after use by flushing the system with water and a strong detergent. Do not allow cleaning water to contaminate wells, streams or ponds.

## Ammonium Sulfate (AMS)

AMS may be added in place of UAN to the spray solution. Use AMS at 2½ lbs/A. Use only fine feed grade or spray grade AMS. Fill sprayer tank two-thirds full with clean water. Begin agitation, slowly add required amount of AMS to the tank. Adding too quickly may clog outlet lines. Allow AMS crystals to dissolve completely. Complete mixing procedures by addition of LADDOK and remaining water. Maintain agitation during application to ensure complete mixing. Rinse equipment after use to minimize corrosive activity of AMS.

To determine AMS quality perform a jar test by adding ¼ cup of AMS to 1 gallon of water and agitate 1 minute. If undissolved sediment is observed, predissolve AMS in water and filter prior to spray tank addition.

## SPECIAL DIRECTIONS FOR OTHER WEED PROBLEMS

Postemergence application to corn and sorghum must be made

before corn and sorghum reaches 12 inches in height.

### Corn and Sorghum

Canada Thistle  
Yellow Nutsedge  
Field Bindweed

For suppression of these weeds, apply 3½ pints of LADDOK per acre when Canada thistle plants are from 9-10" tall. Add oil concentrate or DASH according to sections, Additive Information, and, Mixing/Spraying. For best results cultivate 7-14 days after application.

### Triazine-Resistant Weeds

Triazine-resistant biotypes of Amaranthus (pigweeds), common lambsquarters, and common groundsel can be controlled with 2½ to 3½ pints/A of LADDOK. Apply according to weed sizes in the Application Rate Table (Table 1).

### Tank Mix of LADDOK plus Stinger® for Use in Field Corn

Canada thistle can be controlled by a tank mix of 2½ to 3½ pints/A of LADDOK plus ½ pint of Stinger® herbicide per acre. Apply when Canada thistle is at least 4 inches in diameter or height; when the majority of the basal leaves have emerged but before the bud stage.

Do not cultivate prior to application. Wait 14 to 20 days after application before cultivating. Refer to this label and the STINGER label for restrictions and limitations. The most restrictive labeling applies to tank mixes.

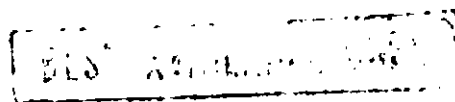
## Mixing with Insecticides

It is permissible to tank mix an insecticide with LADDOK if the proper application timing of the insecticide coincides with the application timing for LADDOK. Insecticides that may be used are Pounce®, Pydrin®, Furadan® 4F, Asana®, dimethoate, malathion, and Lorsban™ 4E. The addition of an insecticide as a tank mix to LADDOK may increase the potential for crop injury. Consult the respective labels for directions for use and restrictions and limitations of each product. The most restrictive labeling applies in tank mixes.

Before a tank mix of LADDOK plus an insecticide is mixed, a jar test should be conducted following the directions in the section, Jar Test for Estimating Suitability of Mixes.

### Tank Mix of LADDOK Plus 2,4-D LVE for Use in Field and Silage Corn Only

A tank mix of LADDOK and 2,4-D LVE (low volatile ester) may be applied for postemergence control of the following troublesome broadleaf weeds; velvetleaf, tall waterhemp, sunflower, and the perennial weeds, Canada thistle, swamp smartweed and field bindweed. The tank mix should be applied to actively growing weeds. Refer to this label and the 2,4-D LVE label to define weeds controlled and conditions of best control. The most restrictive labeling applies to tank mix.



## TIME AND RATE OF APPLICATION

A tank mix of LADDOK plus 2,4-D LVE should be applied after corn has fully emerged through the four-leaf stage of corn growth but before the fifth leaf is visible. Refer to the Recommended Rates for Postemergence Application of LADDOK plus 2,4-D for use rates.

TABLE 2

RECOMMENDED RATES FOR POSTEMERGENCE APPLICATION OF LADDOK PLUS 2,4-D LVE FOR BROADLEAF WEED CONTROL

2,4-D LVE RATE*		
RATE OF LADDOK	4 LB/ GALLON	6 LB/ GALLON
2 1/2 pints/A	1/2 pint/A or 4 fluid oz/A	1/6 pint/A or 2.7 fluid oz/A
*Refer to the section Spray Additives		

## SPRAY ADDITIVES

UAN solution (commonly referred to as 28%, 30% or, 32% nitrogen solution) at 1 gallon per acre may be added to this tank mix to aid in the consistency of control of some broadleaf weeds such as velvetleaf. With the addition of UAN, a slight leaf tip burn or yellowing and speckling may occur. New growth is normal and vigor is not reduced.

Do not use brass or aluminum nozzles when UAN is used.

Do not use oil additives, surfactants or other additives not recommended by each respective label.

## WATER VOLUME AND SPRAY PRESSURE

Use a minimum of 10 gallons of total spray mixture per acre (broadcast basis) and 40 psi pressure with standard flat fan nozzles spaced 20" apart. Use only ground equipment to apply this tank mix.

### Mixing

Fill tank of a thoroughly clean sprayer 1/2 - 3/4 full with clean water. Start agitation of UAN solution (if used) then add LADDOK; allow to mix thoroughly. While the agitator is running add 2,4-D LVE (refer to Jar Test for Estimating Suitability of Mixes), then add the remaining quantity of water.

## RESTRICTIONS AND LIMITATIONS FOR LADDOK PLUS 2,4-D LVE TANK MIX (PARTIAL LIST)

Refer to each respective label for restrictions and limitations. The most restrictive labeling applies to tank mixes.

For use in field and silage corn only.

Do not apply on sorghum, popcorn, sweet corn, or corn grown for seed.

Crop varieties vary in response to 2,4-D and some are injured. Apply this tank mix only to varieties known to be tolerant to 2,4-D.

Do not apply this treatment under cold, wet weather conditions or to corn growing under stress caused by weather, insects, disease, etc. Yellowing of the corn may result from this treatment, particularly if cold adverse growing conditions occur after application. Extended or extreme cold and wet conditions may reduce stands. Thoroughly clean sprayer immediately after spraying.

## TANK MIX OF LADDOK PLUS BLADEX 90DF HERBICIDE FOR USE IN FIELD AND SILAGE CORN ONLY

### GENERAL INFORMATION

A LADDOK plus Bladex® herbicide tank mix may be applied postemergence to field and silage corn for control of major troublesome broadleaf weeds and small annual grasses, and to reduce the potential triazine carryover into rotational crops. The tank mix should be applied to actively growing weeds. Annual grasses controlled by a LADDOK plus BLADEX 90 DF tank mix include; crabgrass, fall panicum, giant foxtail, goosegrass, green foxtail, stinkgrass; (Indian lovegrass), witchgrass and yellow foxtail. Refer to Table 3 for broadleaf weed control. Refer to the label for BLADEX 90 DF for defined conditions of best annual grass control. The most restrictive labeling applies to tank mixes.

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### Time and Rate of Application

A tank mix of LADDOK plus BLADEX 90 DF should be applied after corn has fully emerged but before the fifth leaf is visible. Annual grasses must not exceed 1 1/2" in height for adequate control. Refer to Table 1 for rate and timing for broadleaf weed control. Use BLADEX 90 DF at a rate of 1 1/4 lb/A.

Table 3

LADDOK PLUS BLADEX 90 DF TANK MIX RATE FOR USE IN FIELD AND SILAGE CORN

LADDOK	BLADEX 90 DF
2 pts	1 1/4 lb/A
2 1/2 pts/A	1 1/4 lb/A
3 1/2 pts/A	1 1/4 lb/A

### Spray Additives

Under dry, arid conditions of low humidity and the absence of dew formation at night, add the recommended rate of a surfactant such as X-77 spreader, or an emulsifiable vegetable (EV) oil suitable for use on growing corn. Do not use petroleum-based crop oils. Addition of a surfactant or EV oil is not recommended under moist, rainy conditions and when dew forms at night because injury may occur.

### Water Volume and Spray Pressure

Use a minimum of 10 gallons of total spray mixture per acre (broadcast basis) and 40-50 psi pressure with standard high pressure hollow cone or flat fan

nozzles spaced 20" apart. Use only ground equipment to apply this tank mix.

### Mixing

Fill the spray tank half full with water and add the recommended amount of LADDOK, BLADEX 90 DF and additive, if used, while the agitator is running. Then add the remaining quantity of water.

### RESTRICTIONS AND LIMITATIONS FOR LADDOK PLUS BLADEX 90 DF TANK MIX. (PARTIAL LIST)

Refer to each respective label for restrictions and limitations. The most restrictive labeling applies to tank mixes.

Do not use this tank mix on sand, loamy sand or sandy loam soils that have 1% or less organic matter.

Do not apply to corn if the fifth leaf is visible.

Do not apply this treatment under cold, wet weather conditions or to corn growing under stress caused by weather, insects, disease, etc. Yellowing of the corn may result from this treatment, particularly if cold adverse growing conditions occur after application. Extended or extreme cold and wet conditions may reduce stands.

Plant only corn, peanuts, sorghum, or soybeans the year following use of this mixture. Small grains may be planted 15 months after application and all other crops may be planted after 18 months.

Do not apply on sorghum, popcorn, sweet corn, or corn grown for seed.

Do not use liquid fertilizer as a carrier for this tank mix; use water only.

Do not apply this tank mix by aerial equipment.

### RESTRICTIONS AND LIMITATIONS FOR LADDOK

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

This product may not be mixed/loaded, or used within 50 feet of all wells including abandoned wells, drainage wells, and sink holes.

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

Where there are state/local requirements regarding atrazine use (including lower maximum rates and/or higher set-backs) which are different from the label, the more restrictive requirements apply.

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Do not apply this product through any type of irrigation system.

For postemergence applications, if there has been no previous soil application to that crop, the maximum rate is 2 pounds ai/A. If there has been a previous soil application to that crop, do not exceed a total of 2.5 pounds ai/A per calendar year.

Postemergence application to corn and sorghum must be made before corn and sorghum reach 12 inches in height.

Do not make more than one application of LADDOK per season.

Do not use LADDOK when crop is under stress from prolonged cold, wet weather, poor fertility, or other factors or when crop is wet and succulent from recent rainfall, as crop injury may occur.

Do not apply LADDOK if crop shows injury (leaf phytotoxicity and/or plant stunting) produced by any other prior herbicide applications, because this injury may be enhanced and/or prolonged.

Do not apply LADDOK during prolonged periods of drought or during unseasonable cold

weather, as unsatisfactory weed control may result.

Seed producers should consult the seed company regarding tolerance of seed population inbred lines to LADDOK.

Do not apply to sorghum that is heading out or blooming.

Do not graze treated area of feed treated forage to livestock for 21 days following application.

Rainfall or overhead irrigation soon after application may reduce the effectiveness of LADDOK.

Do not mix or apply LADDOK with any other fertilizer except as specifically recommended on this labeling.

Do not plant sugar beets or sunflower the season following application.

Do not plant oats the season following the application of LADDOK in soil having a calcareous surface layer.

In the intermountain region of the United States, do not plant any other crop the year following the application of LADDOK except corn or sorghum.

## STORAGE AND DISPOSAL

Store above 15°F.

Do not contaminate water, food or feed by storage or disposal. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. Triple-rinse container (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## IN CASE OF EMERGENCY

In case of large-scale spillage regarding this product: avoid contact, isolate area and keep out animals and unprotected persons. Confine spill and call:

**CHEMTREC 800-424-9300**  
**BASF CORP 800-832-HELP**

In case of medical emergency regarding this product, call:

1. Your local doctor for immediate treatment,
2. Your local poison control center (hospital),
3. BASF 800-832-HELP.

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APPENDIX

CONDITIONS OF SALE  
AND WARRANTY

COMMON NAME	SCIENTIFIC NAME
Buggericks	<i>Bidens frondosa</i>
Black Nightshade	<i>Solanum nigrum</i>
Bristly Starbur	<i>Sicyos angulatus</i>
Burcucumber	<i>Acanthospermum hispidum</i>
Canada Thistle	<i>Cirsium arvense</i>
Cocklebur	<i>Xanthium strumarium</i>
Common Lambsquarters	<i>Chenopodium album</i>
Common Ragweed	<i>Ambrosia artemisiifolia</i>
Dayflower	<i>Commelina spp.</i>
Devilsclaw	<i>Proboscidea louisianica</i>
Eastern Black Nightshade	<i>Solanum ptycanthum</i>
Field Bindweed	<i>Convolvulus arvensis</i>
Giant Ragweed	<i>Ambrosia trifida</i>
Jimsonweed	<i>Datura stramonium</i>
Kochia	<i>Kochia scoparia</i>
Ladysthumb	<i>Polygonum persicaria</i>
Morningglory, Annual	<i>Ipomoea spp.</i>
Pennsylvania Smartweed	<i>Polygonum pennsylvanicum</i>
Prickly Sida or Teaweed	<i>Sida spinosa</i>
Redroot Pigweed	<i>Amaranthus retroflexus</i>
Smallflower Morningglory	<i>Jacquemontia tamnifolia</i>
Smooth Pigweed	<i>Amaranthus hybridus</i>
Spurred Anoda	<i>Anoda cristata</i>
Tall Waterhemp	<i>Amaranthus tuberculatus</i>
Velvetleaf	<i>Abutilon theophrasti</i>
Venice Mallow	<i>Hibiscus trionum</i>
Wild Buckwheat	<i>Polygonum convolvulus</i>
Wild Mustard	<i>Sinapis arvensis</i>
Wild Sunflower	<i>Helianthus annuus</i>
Yellow Nutsedge	<i>Cyperus esculentus</i>

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