

PM 25

7969-129

4/24/98

**BASF**

RT Date: 2-22-98  
Copy 2d

text from DFU on to be used as  
text for Storm Supp. and for  
Concl Xtra HC B

BM	OK
TJ	OK
MK	OK
KB	OK

# Conclude® Ultra G

herbicide

### For use on soybeans

**Active Ingredient:**

Sethoxydim: 2-[1-(ethoxyimino)butyl]-5-[2-(ethylthio)propyl]-3-hydroxy-2-cyclohexen-1-one\*.....43.3%

**Inert Ingredients:**.....56.7%

**Total:**.....100.0%

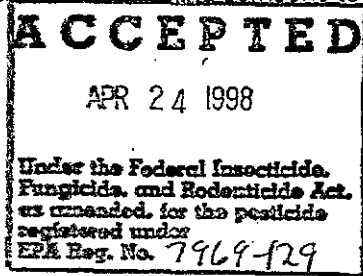
\*Equivalent to 3.5 pounds of sethoxydim per gallon

EPA Reg. No. 7969-129

EPA Establishment Number

### 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 it to you in detail.)



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

**Net contents:**

## Precautionary Statements

### Hazards to Humans and Domestic Animals

Causes substantial but temporary eye injury. Do not get into eyes or on clothing. Harmful if swallowed.

### Statement of Practical Treatment

**If in eyes:** Immediately wash eyes with running water for 15 minutes. If irritation develops, consult a physician.

**If on skin:** Wash affected areas with soap and water. If irritation develops, consult a physician.

**If swallowed:** Do not induce vomiting. Dilute with water and get immediate medical attention. Never give fluids or induce vomiting if the victim is unconscious or having convulsions.

**If inhaled:** Move to fresh air. Aid in breathing if necessary, and get immediate medical attention.

### Personal Protective Equipment (PPE)

Some materials that are chemically resistant to this product are listed below. For more options, refer to category G on an EPA chemical resistance category selection chart.

### Applicators and other handlers must wear:

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves, such as barrier laminate or viton  $\geq 14$  mils
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment, mixing, and loading

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

### Engineering Controls Statement

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

## User Safety Recommendations

### Users should:

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

### Environmental Hazards

This product is toxic to aquatic organisms. For terrestrial uses, 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.

## Endangered Species Concerns

The use of any pesticide in a manner that may kill or otherwise harm an endangered species or adversely modify their habitat is a violation of federal law.

### Tank Mix of Conclude® Ultra B and Conclude® Ultra G herbicides

(Hereafter referred to as Conclude® Ultra)

## 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.

All applicable directions, restrictions, precautions and Conditions of Sale and Warranty are to be followed. This labeling must be in the user's possession during application.

## Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.

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

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves such as barrier laminate, nitrile rubber  $\geq 14$  mils, neoprene rubber  $\geq 14$  mils, or viton  $\geq 14$  mils
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure

### Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal.

**Pesticide Storage:** Do not store below 32° F or above 100° F. Store in a dry place away from heat or open flame. Avoid contamination of feed or foodstuffs.

**Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mix, or rinsate is a violation of federal law. If these wastes cannot be disposed of 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.

### Container Disposal:

• **Plastic Containers:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### • Bulk/Mini-bulk Containers:

Reusable containers should be returned to the point of purchase for cleaning and refilling. Reusable containers can only be refilled with **Conclude® Ultra herbicide**. Do not reuse this container with any other product.

### 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).
- BASF Corporation (800-832-HELP).

### Returnable Container Operating Instructions.

#### Prodigy® System Operating Procedure

**Conclude Ultra** is supplied in the **Prodigy System**, a unique, 120-gallon mini-bulk closed delivery system that contains enough product to treat 320 acres. It consists of a self-discharging tank that does not require any pumping mechanism, and has a dry lock connector which protects the user from exposure to tank contents.

Do not refill **Prodigy System**. Return **Prodigy System** to BASF for cleaning and refilling.

**Conclude Ultra** in a dedicated, returnable **Prodigy System** can only be used with the closed **Prodigy System** in which it comes packaged.

The **Prodigy System**, when operated according to directions, will discharge **Conclude Ultra G** and **Conclude Ultra B** in a 1:1.7 ratio.

**Attention!** The **Prodigy System** is a pressurized delivery system. Do not attempt to open the container. Transfer product only by following these steps:

1. Install a male dry lock connector to the spray tank.
2. Uncoil the hose from the rack and connect the female dry lock connector (at the end of the hose attached to the tank) with the male dry lock connector installed on the spray tank.
3. Turn on the nitrogen gas supply.
4. Push down on the activation handle in the front near the meter until the handle is locked in the lower position allowing the manifold to fill with product and become pressurized. Some tanks do not have a handle; move on to the next step.

5. Turn the meter on by pressing the "ON/TOTAL" button.
6. Press "RESET" button to set current total to "0.00" if desired.
7. Turn the yellow product delivery valve counterclockwise (to horizontal) until the desired amount of product, as indicated on the measuring meter, has been discharged into the spray tank.
8. Turn the yellow product delivery valve clockwise (to vertical) to stop the discharge of product into your spray tank.
9. Lift the activation handle to the unlocked position (in front near the meter) to stop liquid and pressurization from flowing into the manifold. Some tanks do not have a handle; move on to the next step.
10. Turn off the nitrogen gas valve when the **Prodigy System** is not in use.
11. **Hose draining:** Starting at the yellow handle on the **Prodigy Tank**, grasp the hose and walk toward the receiving tank holding the hose level or higher than the dry lock connection allowing all of the product to drain out of the hose.
12. Disconnect the female dry lock connector on the tank hose from the male dry lock connector on the spray tank.
13. Recoil the hose onto the hose rack.
14. Be sure to turn off the nitrogen gas valve on the nitrogen cylinder when the **Prodigy System** operation is completed, or when the tank is empty, or when the tank is ready to be returned to the point of purchase.

Leave all product and bar code labels in place. Product labels must remain in place to comply with Department of Transportation regulations.

#### Return Container Promptly to Distributor

The **Prodigy System** containers are tracked with bar codes and serial numbers. Distributors are responsible for the containers assigned to them. Return this container to the distributor from which it was purchased. Notify the distributor if the container cannot be returned by a specific time. The distributor is responsible for returning the container to BASF. The distributor will be charged for any container not returned within 30 days.

#### Duplex™ II System

**Conclude Ultra B** and **Conclude Ultra G** are provided in a molded jug pack that contains enough **Conclude Ultra** to treat 5 acres.

## I. General Information

**Conclude® Ultra** herbicide is intended for the early postemergence control of a wide spectrum of broadleaf weeds and annual grasses in soybeans (see Table 1). **Conclude Ultra B** must be used in combination with **Conclude Ultra G**.

### Mode of Action

**Conclude Ultra** rapidly enters the target weed through its foliage and translocates throughout the plant. The effects range from slowing or stopping growth (generally within 2 days), to foliage reddening and leaf tip burn. Subsequently, foliage burnback may occur. These symptoms will generally be observed within 3 weeks depending on environmental conditions.

### Crop Tolerance

All soybean varieties are tolerant to **Conclude Ultra** at all stages of growth. Leaf speckling may occur, but plants generally outgrow this condition within 10 days. New growth is normal and crop vigor is not reduced.

### Herbicide Resistance

Repeated use of **Conclude Ultra** (or similar postemergence grass herbicides with the same mode of action) may lead to the selection of naturally occurring biotypes with resistance to these products. If poor performance cannot be attributed to adverse weather conditions or improper application methods, a resistant biotype may be present. Consult your local representative or agricultural advisor for assistance.

### Coverage

Apply **Conclude Ultra** to the foliage of grasses on a spray-to-wet basis uniformly and completely because large leaf canopies shelter smaller weeds and can prevent adequate spray coverage. Do not spray to the point of runoff.

### Irrigation

In irrigated areas, it may be necessary to irrigate before treatment to ensure active weed growth.

### Cultivation

Do not cultivate within 5 days before or 7 days after applying **Conclude Ultra**. Cultivating 7-14 days after treatment may help provide season-long control.

### Cleaning Spray Equipment

Clean spray equipment thoroughly using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions before and after applying this product, particularly if a herbicide with the potential to injure crops was used.

## II. Application Instructions

For optimum results with **Conclude Ultra** in a total postemergence, one-pass weed control system for soybeans, the following recommendations should be followed:

- plant rows 15" wide or less
- eliminate all vegetative weed growth prior to soybean planting
- apply **Conclude Ultra** according to weed sizes stated on this label (about 21 days after soybean planting).

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Apply 38 ounces of **Conclude Ultra** (14 ounces of **Conclude Ultra G** and 24 ounces of **Conclude Ultra B**) per acre early postemergence (generally when soybeans are in the 2nd to 3rd trifoliate leaf stage of growth). The most effective control will result from making postemergent applications of **Conclude Ultra** early, when weeds are small. Delaying application permits weeds to exceed the maximum size stated and will prevent adequate control. Do not apply when conditions favor drift from target area or when windspeed is greater than 10 mph.

All **Conclude Ultra** applications to control volunteer cereals (barley, corn, oats, rye, and wheat) should be made before tillering. Volunteer cereals that emerged the previous fall may not be adequately controlled with **Conclude Ultra** for spring control.

### Air Application

**Water Volume:** Use a minimum of 5 gallons of water per acre.

**Spray Pressure:** Use up to 40 psi.

**Application Equipment:** Use only diaphragm-type nozzles that produce fan spray patterns.

**Nozzle Height:** 6-10 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) and not more than 20° downwind. Nozzles must be located no farther out than 3/4 the distance from the center of the aircraft to the end of the wing or rotor.

### Special Directions for Aerial Application

To obtain uniform coverage and to avoid drift hazards, follow these guidelines:

- Do not apply **Conclude Ultra** by aircraft when wind is blowing more than 10 mph. Use coarse sprays (larger droplets) as they are less likely to drift.
- Do not apply **Conclude Ultra** by air if ornamental or sensitive nontarget crops such as cotton, sugar beets, sunflowers, or okra are within 200 feet downwind.

The 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.

### Ground Application (Broadcast)

**Water Volume:** Use a minimum of 10 gallons of water per broadcast acre.

**Spray Pressure:** Use a minimum of 40 psi (measured at the boom, not at the pump or in the line).

**Application Equipment:** Use standard high-pressure pesticide flat fan or hollow cone nozzles spaced up to 20 inches apart. Do not use flood, whirl chamber, or controlled droplet applicator (CDA) nozzles as erratic coverage can cause inconsistent weed control. Do not use selective application equipment such as recirculating sprayers or wiper applicators. When tall weeds such as volunteer corn are to be controlled, the boom should be high enough to cover the entire plant. Refer to the nozzle manufacturer's directions for recommended height.

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Table 1. Maximum weed heights controlled by 38 ounces of Conclude Ultra per acre (24 ounces of Conclude Ultra B and 14 ounces of Conclude Ultra G per acre) with crop oil concentrate (1 pint per acre)

Broadleaves*	Leaf Stage	Maximum Weed Height	Grasses*	Maximum Weed Height
Anoda, Spurred*	4	2"	Barnyardgrass	4"
Carpetweed	3" diam.	2"	Crabgrass, Large	4"
Cocklebur	6	6"	Crabgrass, Smooth	4"
Copperleaf, Hophornbeam	4	4"	Cupgrass, Woolly	4"
Crotalaria	6	6"	Foxtail, Giant	4"
Croton, Tropic	2	4"	Foxtail, Green	4"
Woolly	2	4"	Foxtail, Yellow	4"
Eclipta	6	6"	Goosegrass	4"
Jimsonweed	6	6"	Johnsongrass (seedling)	4"
Ladysthumb	6	6"	Junglegrass	4"
Lambsquarters*	6	2"	Millet, Wild Proso	12"
Mallow, Venice	6	2"	Oats, Wild	3"
Morningglories	4	2"	Panicum, Browntop	4"
Mustard, Wild	6	4"	Panicum, Fall	4"
Nightshade, Black	6	2"	Panicum, Texas	4"
Pigweed, Redroot	6	3"	Red Rice	1"
Smooth	6	3"	Shattercane	6"
Ragweed, Common	6	3"	Signalgrass, Broadleaf	4"
Giant	4	6"	Sprangletop, Red	4"
Redweed	4	3"	Volunteer Corn	12"
Sesbania, Hemp	4	6"	Witchgrass	4"
Sida, Prickly or Teaweed*	4	2"		
Smartweed, Pennsylvania	6	6"	<b>Perennials:</b>	<b>Maximum Weed Height</b>
Starbur, Bristly	6	3"	(top growth suppression)	
Texasweed	3	3"	Johnsongrass (Rhizome)	Based on application timing of annual grasses
Velvetleaf*	4	2"	Nutsedge, Yellow <sup>b</sup>	
Waterhemp, Common	6	3"	Thistle, Canada <sup>b</sup>	
Tall	6	3"		

\* For new germination or perennial regrowth, follow up with Basagran<sup>®</sup>, Poast Plus<sup>®</sup>, Storm<sup>®</sup>, or Blazer<sup>®</sup> herbicide. Refer to the respective labels for Directions For Use.  
<sup>b</sup> Control may be inconsistent. A later application of Basagran may be necessary. (See Basagran label.)

### III. Additives

When using the Prodigy System, add oil concentrate after Conclude<sup>®</sup> Ultra herbicide has been added to the spray tank. Under excessively dry, wet, or cold conditions which may reduce herbicidal activity, use the maximum rate of oil concentrate (refer to Table 2.)

#### Oil Concentrate

A crop oil concentrate must contain either a petroleum or vegetable oil base and must meet all of the following criteria:

- be nonphytotoxic,
- contain only EPA-exempt ingredients,
- provide good mixing quality in the jar test, and
- be successful in local experience.

The exact composition of suitable products will vary; however, vegetable and petroleum oil concentrates should contain emulsifiers to provide good mixing quality. Highly refined vegetable oils have proven more satisfactory than unrefined vegetable oils. Refer to **Compatibility Test for Mix Components** for more information.

Table 2. Additive Rates Per Acre

Additive	Ground Application	Aerial Application
Oil Concentrate	1-2 pints	1-2 pints

#### Compatibility Test for Mix Components

Add components in the following sequence using 2 teaspoons for each pound or 1 teaspoon for each pint of recommended label rate per acre.

- 1) **Water.** For 20 gallons per acre spray volume, use 3.3 cups (800 ml) of water. For other spray volumes, adjust rates accordingly. Use only water from the intended source at the source temperature.

- 2) Correct amounts of Conclude Ultra G and B. Cap the jar and invert 10 cycles.
- 3) **Emulsifiable concentrates** (oil concentrate). Cap the jar and invert 10 cycles.
- 4) Let the solution stand for 15 minutes.
- 5) **Evaluate** the solution for uniformity and stability. The spray solution should not have free oil on the surface, nor fine particles that precipitate to the bottom, nor thick (clabbered) texture. Do not use any spray solution that could clog spray nozzles.

### IV. Mixing Order

The following steps apply when using the Duplex<sup>®</sup> II container system.

- 1) **Water:** Begin by agitating a thoroughly clean sprayer tank three-quarters full of clean water.
- 2) **Agitation:** Maintain constant agitation throughout mixing and application.
- 3) **Conclude Ultra B**
- 4) **Emulsifiable concentrates** (oil concentrate)
- 5) **Conclude Ultra G**
- 6) Remaining quantity water

Maintain constant agitation during application. Do not attempt to pour the contents of the Duplex II container system into the tank simultaneously or poor mixing will result.

### V. Tank Mixing Application

No tank mixes are specifically recommended with this product. Consult your local BASF representative or agricultural advisor for assistance.

## VI. General Restrictions and Limitations — All Crops

- **Maximum seasonal use rate:** Do not apply more than **38 ounces of Conclude® Ultra herbicide** (14 ounces of **Conclude Ultra G** and 24 ounces of **Conclude Ultra B**) per acre, per season.
- Make only one application of **Conclude Ultra** per acre, per season.
- After an application of **Conclude Ultra**, do not apply more than 1.5 pounds of a.i. of bentazon per acre, per season; 0.25 pounds of a.i. of sodium acifluorfen per acre, per season; or 0.55 pounds of a.i. of sethoxydim per acre, per season.
- Do not apply sequential applications of **Blazer®**, **Galaxy®** herbicide, or **Storm®** within 15 days following the application of **Conclude Ultra**.
- **Preharvest Interval (PHI):** Do not apply within **75 days** of soybean harvest.
- **Restricted Entry Interval (REI): 48 hours.**
- In case of **crop failure**, only peanuts or soybeans may be immediately replanted.
- **Crop Rotation Restriction:** Root crops (such as carrots, turnips, sweet potatoes, etc.) must not be planted in fields treated with **Conclude Ultra** for **18 months** following treatment.
- Do not use treated plants for feed or forage.
- Do not apply to grasses or crops under **stress** such as stress due to lack of moisture, hail damage, flooding, herbicide injury, mechanical injury, or widely fluctuating temperatures, as **unsatisfactory control** will probably result.
- Do not apply to crops that show **injury** (leaf phytotoxicity or plant stunting) produced by any other prior herbicide applications, because this injury may be enhanced or prolonged.
- Avoid drift to all other crops and nontarget areas.
- Do not use **selective application equipment** such as recirculating sprayers, wiper applicators, or **shielded applicators**.
- **Rainfast Period:** Do not apply if rainfall or overhead irrigation is expected soon after application.
- Do not apply through any type of **irrigation equipment**.
- This product cannot be used to **formulate** or reformulate any other pesticide product.

Table 3. Crop-Specific Restrictions and Limitations for Conclude Ultra herbicides

Crop	Minimum Time From Application to Harvest (PHI)	Maximum Rate Per Acre Per Application	Maximum Rate Per Acre Per Season	Livestock Grazing or Feeding	Aircraft Application
Soybeans	75 days	38 ounces	38 ounces	No	Yes

## VII. Crop-Specific Information

### Soybeans

#### Special Directions for Problem Weeds

##### Rhizome Johnsongrass:

Rhizome johnsongrass is best controlled when **Conclude® Ultra** herbicide is followed by **Poast Plus®** herbicide when johnsongrass is 6-8" tall. The timing of **Conclude Ultra** should follow label directions for control of the annual grasses and broadleaf weeds. This timing will usually not be optimum for controlling rhizome johnsongrass, however, the **Conclude Ultra** will provide effective control of the johnsongrass vegetation and some rhizomes.

The sequential application of **Poast Plus** (1.5 pints per acre) will control the newly emerging vegetation as well as deplete the rhizome reserves when the following rates are used:

- **Conclude Ultra:** 38 fluid ounces per acre based on the annual grass labelled directions.
- **Poast Plus:** 1.5 pints per acre on 6-8" rhizome johnsongrass

Use 2 pints of oil concentrate per acre in each spray mix.

##### Yellow Nutsedge:

At the optimum application time of **Conclude Ultra** for most pests, yellow nutsedge may not be at the correct growth stage for optimum control. The best nutsedge control will be achieved by applying **Conclude Ultra** and a sequential application of **Basagran®** herbicide at 1.5-2.0 pints per acre.

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**Crops:**  
 This product can be used on the following crops:  
**Soybeans**  
 Look inside for complete **Restrictions and Limitations and Application Instructions.**

**Weeds listed in this label:**

Common Name	Scientific Name
Anoda, Spurred	<i>Anoda cristata</i>
Barnyardgrass (Watergrass)	<i>Echinochloa crus-galli</i>
Carpetweed	<i>Mollugo verticillata</i>
Cocklebur	<i>Xanthium strumarium</i>
Copperleaf, Hophornbeam	<i>Acalypha ostryifolia</i>
Crabgrass, Large	<i>Digitaria sanguinalis</i>
, Smooth	<i>Digitaria ischaemum</i>
Crotolaria	<i>Crotalaria spectabilis</i>
Croton, Tropic	<i>Croton glandulosus</i>
, Woolly	<i>Croton capitatus</i>
Cupgrass, Woolly	<i>Eriochloa villosa</i>
Eclipta	<i>Eclipta alba</i>
Foxtail, Giant	<i>Setaria faberi</i>
, Green	<i>Setaria viridis</i>
, Yellow	<i>Setaria glauca</i>
Goosegrass	<i>Eleusine indica</i>
Jimsonweed	<i>Datura stramonium</i>
Johnsongrass	<i>Sorghum halepense</i>
Junglegrass	<i>Cenchrus incertus</i>
Ladysthumb	<i>Polygonum persicaria</i>
Lambsquarters, Common	<i>Chenopodium album</i>
Mallow, Venice	<i>Hibiscus trionum</i>
Millet, Wild Proso	<i>Panicum miliaceum</i>
Morningglory, Cypressvine	<i>Ipomoea quamoclit</i>
, Entireleaf	<i>Ipomoea hederacea, var. integruscula</i>
, Ivyleaf	<i>Ipomoea hederacea</i>
, Palmleaf	<i>Ipomoea wrightii</i>
, Pitted	<i>Ipomoea lacunosa</i>
, Purple	<i>Ipomoea turbinata</i>
Mustard, Wild	<i>Sinapis arvensis</i>
Nightshade, Black	<i>Solanum nigrum</i>
Nutsedge, Yellow	<i>Cyperus esculentus</i>
Oats, Wild	<i>Avena fatua</i>
Panicum, Browntop	<i>Panicum fasciculatum</i>
, Fall	<i>Panicum dichotomiflorum</i>
, Texas	<i>Panicum texanum</i>
Pigweed, Redroot	<i>Amaranthus retroflexus</i>
, Smooth	<i>Amaranthus hybridus</i>
Ragweed, Common	<i>Ambrosia artemisiifolia</i>
, Giant	<i>Ambrosia trifida</i>
Red Rice	<i>Oryza sativa</i>
Redweed	<i>Melochia corchorifolia</i>
Sesbania, Hemp	<i>Sesbania exaltata</i>
Shattercane/Wildcane	<i>Sorghum bicolor</i>
Sida, Prickly, (Teaweed)	<i>Sida spinosa</i>
Signalgrass, Broadleaf	<i>Brachiaria platyphylla</i>
Smartweed, Pennsylvania	<i>Polygonum pennsylvanicum</i>
Sprangletop, Red	<i>Leptochloa filiformis</i>
Starbur, Bristly	<i>Acanthospermum hispidum</i>
Texasweed	<i>Caperonia palustris</i>
Thistle, Canada	<i>Cirsium arvense</i>
Velvetleaf	<i>Abutilon theophrasti</i>
Volunteer Corn	<i>Zea mays</i>
Waterhemp, Common	<i>Amaranthus rudis</i>
, Tall	<i>Amaranthus tuberculatus</i>
Witchgrass	<i>Panicum capillare</i>

**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. BASF 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. BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL BASF 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 duly authorized representative of BASF.

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**Additional Information**

For additional information, call BASF's **COMMSERV**® at 1-800-874-0081.

BASF Corporation  
 P.O. Box 13528  
 Research Triangle Park, NC 27709

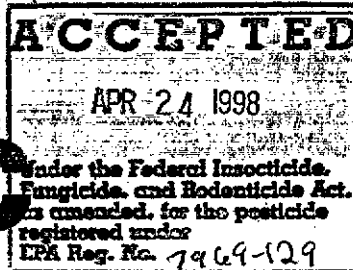




PM 25 7969-129  
Supplemental Labeling

# Poast<sup>®</sup> HC

herbicide



Tank mix with Storm<sup>®</sup> herbicide for postemergence use in soybeans

EPA Reg. No 7969-129

All applicable directions, restrictions, precautions and **Conditions of Sale and Warranty** on the EPA-registered label are to be followed. This labeling must be in the possession of the user at the time of herbicide application.

### 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. All applicable directions, restrictions, precautions and **Conditions of Sale and Warranty** are to be followed. This labeling must be in the user's possession during application.

### Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal.

**Pesticide Storage:** Do not store below 32° F or above 100° F. Store in a dry place away from heat or open flame. Avoid contamination of feed or foodstuffs.

**Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mix, or rinsate is a violation of federal law. If these wastes cannot be disposed of 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.

### Container Disposal:

#### • Plastic Containers for Duplex<sup>®</sup> II system:

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

#### • Bulk/Mini-bulk Containers:

Reusable containers should be returned to the point of purchase for cleaning and refilling. Reusable containers can only be refilled with **Storm** and **Poast HC**. Do not reuse this container with any other product.

### 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).
- BASF Corporation (800-832-HELP)

### Returnable Container Operating Instructions. Prodigy<sup>®</sup> System Operating Procedure

**Storm** and **Poast HC** are supplied in the **Prodigy System**, a unique 120-gallon mini-bulk closed delivery system that contains enough product to treat 320 acres. It consists of a self-discharging tank that does not require any pumping mechanism, and has a dry lock connector which protects the user from exposure to tank contents.

Do not refill **Prodigy System**. Return **Prodigy System** to BASF for cleaning and refilling. **Storm** and **Poast HC** in a dedicated, returnable **Prodigy System** can only be used with the closed **Prodigy System** in which it comes packaged. The **Prodigy System**, when operated according to directions, will discharge **Poast HC** and **Storm** in a 1:1.7 ratio. **Attention!** The **Prodigy System** is a pressurized delivery system. Do not attempt to open the container. Transfer product only by following these steps:

1. Install a male dry lock connector to the spray tank.
2. Uncoil the hose from the rack and connect the female dry lock connector (at the end of the hose attached to the tank) with the male dry lock connector installed on the spray tank.
3. Turn on the nitrogen gas supply.
4. Push down on the activation handle in the front near the meter until the handle is locked in the lower position allowing the manifold to fill with product and become pressurized. Some tanks do not have a handle; move on to the next step.
5. Turn the meter on by pressing the "ON/TOTAL" button.
6. Press "RESET" button to set current total to "0.00" if desired.
7. Turn the yellow product delivery valve counterclockwise (to horizontal) until the desired amount of product, as indicated on the measuring meter, has been discharged into the spray tank.
8. Turn the yellow product delivery valve clockwise (to vertical) to stop the discharge of product into your spray tank.

9. Lift the activation handle to the unlocked position (in front near the meter) to stop liquid and pressurization from flowing into the manifold. Some tanks do not have a handle; move on to the next step.
10. Turn off the nitrogen gas valve when the **Prodigy System** is not in use.
11. Hose draining: Starting at the yellow handle on the **Prodigy Tank**, grasp the hose and walk toward the receiving tank holding the hose level or higher than the dry lock connection allowing all of the product to drain out of the hose.
12. Disconnect the female dry lock connector on the tank hose from the male dry lock connector on the spray tank.
13. Recoil the hose onto the hose rack.
14. Be sure to turn off the nitrogen gas valve on the nitrogen cylinder when the **Prodigy System** operation is completed, or when the tank is empty, or when the tank is ready to be returned to the point of purchase.

Leave all product and bar code labels in place. Product labels must remain in place to comply with Department of Transportation regulations.

**Return Container Promptly to Distributor.** The **Prodigy System** containers are tracked with bar codes and serial numbers. Distributors are responsible for the containers assigned to them. Return this container to the distributor from which it was purchased. Notify the distributor if the container cannot be returned by a specific time. The distributor is responsible for returning the container to BASF. The distributor will be charged for any container not returned within 30 days.

### Duplex™ II System

**Storm** and **Poast HC** are provided in a molded jug pack that contains enough product to treat 5 acres.

#### I. General Information

A tank mix of **Poast HC** and **Storm** is intended for the early postemergence control of a wide spectrum of broadleaf weeds and annual grasses in soybeans (See **Table 1**). **Storm** must be used in combination with **Poast HC**.

#### Mode of Action

**Poast HC** and **Storm** rapidly enters the target weed through its foliage and translocates throughout the plant. The effects range from slowing or stopping growth (generally within 2 days), to foliage reddening and leaf tip burn. Subsequently, foliage burnback may occur. These symptoms will generally be observed within 3 weeks depending on environmental conditions.

#### Crop Tolerance

All soybean varieties are tolerant to **Poast HC** and **Storm** at all stages of growth. Leaf speckling may occur, but plants generally outgrow this condition within 10 days. New growth is normal and crop vigor is not reduced.

#### Coverage

Apply **Poast HC** and **Storm** to the foliage of grasses on a spray-to-wet basis uniformly and completely because large leaf canopies shelter smaller weeds and can prevent adequate spray coverage. Do not spray to the point of runoff.

#### Irrigation

In irrigated areas, it may be necessary to irrigate before treatment to ensure active weed growth.

#### Cultivation

Do not cultivate within 5 days before or 7 days after applying **Poast HC** and **Storm**. Cultivating 7-14 days after treatment may help provide season-long control.

#### Cleaning Spray Equipment

Clean spray equipment thoroughly using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions before and after applying this product, particularly if a herbicide with the potential to injure crops was used.

### II. Application Instructions

For optimum results with **Poast HC** and **Storm** in a total postemergence, one-pass weed control system for soybeans, the following recommendations should be followed:

- plant rows 15" wide or less
- eliminate all vegetative weed growth prior to soybean planting
- apply **Poast HC** and **Storm** according to weed sizes stated on this label (about 21 days after soybean planting).

Apply 14 ounces of **Poast HC** and 1.5 pints **Storm** per acre early postemergence (generally when soybeans are in the 2nd to 3rd trifoliate

late leaf stage of growth). The most effective control will result from making postemergent applications of **Poast HC** and **Storm** early, when weeds are small. Delaying application permits weeds to exceed the maximum size stated and will prevent adequate control. Do not apply when conditions favor drift from target area or when wind-speed is greater than 10 mph.

All **Poast HC** and **Storm** applications to control volunteer cereals (barley, corn, oats, rye, and wheat) should be made before tillering. Volunteer cereals that emerged the previous fall may not be adequately controlled with **Poast HC** and **Storm** for spring control.

#### Air Application

**Water Volume:** Use a minimum of 5 gallons of water per acre.

**Spray Pressure:** Use up to 40 psi.

**Application Equipment:** Use only diaphragm-type nozzles that produce fan spray patterns.

**Nozzle Height:** 6-10 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) and not more than 20° downwind. Nozzles must be located no farther out than 3/4 the distance from the center of the aircraft to the end of the wing or rotor.

#### Special Directions for Aerial Application

To obtain uniform coverage and to avoid drift hazards, follow these guidelines:

- Do not apply **Poast HC** and **Storm** by aircraft when wind is blowing more than 10 mph. Use coarse sprays (larger droplets) as they are less likely to drift.
- Do not apply **Poast HC** and **Storm** by air if ornamental or sensitive nontarget crops such as cotton, sugar beets, sunflowers, or okra are within 200 feet downwind.

The 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.

#### Ground Application (Broadcast)

**Water Volume:** Use a minimum of 10 gallons of water per broadcast acre.

**Spray Pressure:** Use a minimum of 40 psi (measured at the boom, not at the pump or in the line).

**Table 1. Maximum Weed Heights Controlled by 24 ounces of Storm and 14 ounces of Poast HC per acre with Crop Oil Concentrate (1 pint per acre)**

Broadleaves <sup>a</sup>	Leaf Stage	Maximum Weed Height	Grasses <sup>a</sup>	Maximum Weed Height
Anoda, Spurred <sup>a</sup>	4	2"	Barnyardgrass	4"
Carpetweed	3" diam.	2"	Crabgrass, Large	4"
Cocklebur	6	6"	Smooth	4"
Copperleaf, Hophornbeam	4	4"	Cupgrass, Woolly	4"
Crotalaria	6	6"	Foxtail, Giant	4"
Croton, Tropic	2	2"	Green	4"
Woolly	2	2"	Yellow	4"
Eclipta	6	6"	Goosegrass	4"
Jimsonweed	6	6"	Johnsongrass (seedling)	4"
Ladysthumb	6	6"	Junglegrass	4"
Lambsquarters <sup>a</sup>	6	2"	Millet, Wild Proso	12"
Mallow, Venice	6	2"	Oats, Wild	3"
Morningglories	4	2"	Panicum, Browntop	4"
Mustard, Wild	6	4"	Fall	4"
Nightshade, Black	6	2"	Texas	4"
Pigweed, Redroot	6	3"	Red Rice	1"
Smooth	6	3"	Shattercane	6"
Ragweed, Common	6	3"	Signalgrass, Broadleaf	4"
Giant	4	6"	Sprangletop, Red	4"
Redweed	4	3"	Volunteer Corn	12"
Sesbania, Hemp	4	6"	Witchgrass	4"
Sida, Prickly or Teaweed <sup>a</sup>	4	2"		
Smartweed, Pennsylvania	6	6"	<b>Perennials:</b>	<b>Maximum Weed Height</b>
Starbur, Bristly	6	3"	(top growth suppression)	
Texasweed	3	2"	Johnsongrass (Rhizome)	Based on application timing of annual grasses
Velvetleaf <sup>a</sup>	4	3"	Nutsedge, Yellow <sup>a</sup>	
Waterhemp, Common	6	3"	Thistle, Canada <sup>a</sup>	
Tall	6	3"		

<sup>a</sup> For new germination or perennial regrowth, follow up with Basagran<sup>®</sup>, Poast Plus<sup>®</sup>, Storm<sup>®</sup>, or Blazer<sup>®</sup> herbicide. Refer to the respective labels for **Directions For Use**.  
<sup>b</sup> Control may be inconsistent. A later application of Basagran may be necessary. (See Basagran label.)

**Application Equipment:** Use standard high-pressure pesticide flat fan or hollow cone nozzles spaced up to 20 inches apart. Do not use flood, whirl chamber, or controlled droplet applicator (CDA) nozzles as erratic coverage can cause inconsistent weed control. Do not use selective application equipment such as recirculating sprayers or wiper applicators. When tall weeds such as volunteer corn are to be controlled, the boom should be high enough to cover the entire plant. Refer to the nozzle manufacturer's directions for recommended height.

**III. Additives**

When using the Prodigy System, add oil concentrate after Poast HC and Storm have been added to the spray tank. Under excessively dry, wet, or cold conditions which may reduce herbicidal activity, use the maximum rate of oil concentrate (refer to Table 2.)

**Oil Concentrate**

A crop oil concentrate must contain either a petroleum or vegetable oil base and must meet all of the following criteria:

- be nonphytotoxic,
- contain only EPA-exempt ingredients,
- provide good mixing quality in the jar test, and
- be successful in local experience.

The exact composition of suitable products will vary; however, vegetable and petroleum oil concentrates should contain emulsifiers to provide good mixing quality. Highly refined vegetable oils have proven more satisfactory than unrefined vegetable oils. Refer to **Compatibility Test for Mix Components** for more information.

**Table 2. Additive Rates Per Acre**

Additive	Ground Application	Aerial Application
Crop Oil Concentrate	1-2 pints	1-2 pints

**Compatibility Test for Mix Components**

Add components in the following sequence using 2 teaspoons for each pound or 1 teaspoon for each pint of recommended label rate per acre.

- 1) **Water.** For 20 gallons per acre spray volume, use 3.3 cups (800 ml) of water. For other spray volumes, adjust rates accordingly. Use only water from the intended source at the source temperature.
- 2) **Correct amounts of Storm and Poast HC.** Cap the jar and invert 10 cycles.
- 3) **Emulsifiable concentrates** (oil concentrate). Cap the jar and invert 10 cycles.
- 4) Let the solution stand for 15 minutes.
- 5) **Evaluate** the solution for uniformity and stability. The spray solution should not have free oil on the surface, nor fine particles that precipitate to the bottom, nor thick (clabbered) texture. Do not use any spray solution that could clog spray nozzles.

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**IV. Mixing Order**

- 1) **Water:** Begin by agitating a thoroughly clean sprayer tank three-quarters full of clean water.
- 2) **Agitation:** Maintain constant agitation throughout mixing and application.
- 3) **Storm.**
- 4) **Emulsifiable concentrates** (oil concentrate)
- 5) **Poast HC**
- 6) Remaining quantity water

Maintain constant agitation during application. Do not attempt to pour the contents of the Duplex II container system (Poast HC and Storm) into the tank simultaneously or poor mixing will result.

**V. Tank Mixing Application**

No tank mixes are specifically recommended with this product. Consult your local BASF representative or agricultural advisor for assistance.

**VI. General Restrictions and Limitations**

- **Maximum seasonal use rate:** Do not apply more than 14 ounces of Poast HC and 24 ounces of Storm per acre, per season.
- Make only one application of Poast HC and Storm per acre, per season.
- After an application of Poast HC and Storm, do not apply more than 1.5 pounds of a.i. of bentazon per acre, per season; 0.25 pounds of a.i. of sodium acifluorfen per acre, per season; or 0.55 pounds of a.i. of sethoxydim per acre, per season.
- Do not apply sequential applications of Blazer, Galaxy™ herbicide, or Storm within 15 days following the application of Poast HC and Storm.
- **Preharvest Interval (PHI):** Do not apply within 75 days of soybean harvest.
- **Restricted Entry Interval (REI):** 12 hours.
- In case of crop failure, only peanuts or soybeans may be immediately replanted.
- **Crop Rotation Restriction:** Root crops (such as carrots, turnips, sweet potatoes, etc.) must not be planted in fields treated with Poast HC and Storm for 18 months following treatment.
- Do not use treated plants for feed or forage.
- Do not apply to grasses or crops under stress such as stress due to lack of moisture, hail damage, flooding, herbicide injury, mechanical injury, or widely fluctuating temperatures, as unsatisfactory control will probably result.
- Do not apply to crops that show injury (leaf phytotoxicity or plant stunting) produced by any other prior herbicide applications, because this injury may be enhanced or prolonged.
- Avoid drift to all other crops and nontarget areas.
- Do not use selective application equipment such as recirculating sprayers, wiper applicators, or shielded applicators.
- **Rainfast Period:** Do not apply if rainfall or overhead irrigation is expected soon after application.
- Do not apply through any type of irrigation equipment.
- This product cannot be used to formulate or reformulate any other pesticide product.

**Special Directions for Problem Weeds**

**Rhizome Johnsongrass:** Rhizome johnsongrass is best controlled when Poast HC and Storm is followed by Poast Plus® herbicide when johnsongrass is 6-8" tall. The timing of Poast HC and Storm should follow label directions for control of the annual grasses and broadleaf weeds. This timing will usually not be optimum for controlling rhizome johnsongrass, however, the Poast HC and Storm will provide effective control of the johnsongrass vegetation and some rhizomes.

The sequential application of Poast Plus (1.5 pints per acre) will control the newly emerging vegetation as well as deplete the rhizome reserves when the following rates are used:

- **Poast HC and Storm:** 38 fluid ounces per acre based on the annual grass labelled directions.
- **Poast Plus:** 1.5 pints per acre on 6-8" rhizome johnsongrass

Use 2 pints of oil concentrate per acre in each spray mix

**Yellow Nutsedge:**

At the optimum application time of Poast HC and Storm for most pests, yellow nutsedge may not be at the correct growth stage for optimum control. The best nutsedge control will be achieved by applying Poast HC and Storm and a sequential application of Basagran at 1.5-2.0 pints per acre.

**Table 3. Crop-Specific Restrictions and Limitations for Poast HC and Storm Herbicides**

Crop	Minimum Time From Application to Harvest (PHI)	Maximum Rate Per Acre Per Application	Maximum Rate Per Acre Per Season	Livestock Grazing or Feeding	Aircraft Application
Soybeans	75 days	38 ounces	38 ounces	No	Yes

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**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.

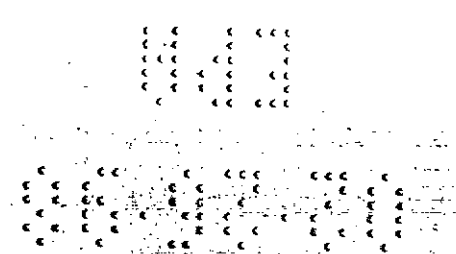
BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above.

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