



Reg # 7969-76

PM-25

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

FEB 24 1994

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

KAREN R. BLUNDELL  
BASF CORP.  
AGRICULTURAL PRODUCTS  
BOX 13528  
RESEARCH TRIANGLE PARK, N.C. 27709

Subject: Label Amendment Submission of 9/30/93 In Response to PR Notice 93-7  
EPA Reg. No. 7969-76  
STORM HERBICIDE

**IMPORTANT NOTICE:** This Letter Requires You to Submit a Notification to the Office of Compliance Monitoring within 20 Days.

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments listed on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

**SERIOUS ERROR(S) ON SUBMITTED LABELING:**

EPA has determined that one or more of the errors on the labeling you submitted to the Agency is categorized as "serious" as defined in PR Notice 93-11. In general, serious errors are those that may create a potential for harm to workers, handlers, other persons, or the environment; or those that prevent the achievement of the basic goals of the Worker Protection Standard (WPS) or FIFRA.

**YOU MUST NOT SELL OR DISTRIBUTE (INCLUDING RELEASE FOR SHIPMENT) ANY PRODUCT BEARING THE SUBMITTED LABELING.** Sale or distribution of any product with the incorrect labeling is a violation of FIFRA that could result in initiation of an action for civil penalties and/or cancellation of your product. This matter has been referred to the Office of Compliance Monitoring (OCM) for further action.

**YOU MUST SUBMIT A NOTIFICATION TO THE OFFICE OF COMPLIANCE MONITORING WITHIN 20 DAYS OF THE DATE OF THIS LETTER.**



Recycled/Recyclable  
Printed with Soy/Canola Ink on paper that  
contains at least 50% recycled fiber

Each notification must include the following information:

1. Registrant's name and address.
2. EPA Registration number of the product for which the labeling was submitted.
3. Whether any product already has been sold or distributed (this includes released for shipment) bearing the submitted labeling.

In addition, the notification must include the following information, IF you have already sold or distributed any product bearing the submitted labeling:

1. Quantity of the product that has been sold or distributed.
2. EPA Producing Establishment number.
3. Location of the product, if known.
4. Proposed plan for assuring that product with the incorrect labeling in your control, as well as that in the hands of dealers/distributors/users, will be corrected. The plan must include your proposal for assuring that the labeling is corrected as soon as possible.

Submit the notification to:

Michael Wood, Director  
Compliance Division, (7203)  
Worker Protection Notification  
Office of Compliance Monitoring  
U.S. Environmental Protection Agency  
401 M Street SW  
Washington, DC 20460

Failure to submit a notification also may result in initiation of an action under FIFRA for civil penalties, if you sold or distributed (this includes released for shipment) product bearing the incorrect labeling.

**IN ADDITION, YOU SHOULD CONTACT IMMEDIATELY THE PERSONS TO WHOM YOU SOLD OR DISTRIBUTED YOUR PRODUCT AND INFORM THEM NOT TO SELL OR DISTRIBUTE ANY PRODUCT WITH THE INCORRECT LABELING.**

**WHAT THIS ACCEPTANCE MEANS:**

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the WPS labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have neither been reviewed nor accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

**WHAT YOU NEED TO DO NEXT:**

Submit the required notification. Then by the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling as amended

**AND**

- WITHIN one year from date of this acceptance.

Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs (7505C)  
U.S. Environmental Protection Agency  
401 M Street, SW  
Washington, D.C. 20460-0001

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Hand or courier deliveries of final labeling may be made to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief  
Registration Support Branch  
Registration Division (7505W)

Attachment

cc: Office of Compliance Monitoring

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division

Karen R Blundell  
BASF CORP  
AGRICULTURAL PRODUCTS  
BOX 13528  
RESEARCH TRIANGLE PARK NC 27709

Comment for: EPA Reg Nr.7969-76  
STORM HERBICIDE

The following specific comments pertain to your WPS  
labeling submission concerning the product  
cited above:

The bodywear requirement for "applicators and other  
handlers" in the "Personal Protective Equipment" section on  
your proposed labeling is missing or incorrect. Remove the  
incorrect requirement (if any) and add "Long-sleeved shirt  
and long pants." The exact location is shown in Sections A  
and B on Part I of the Product Worksheet in Supplement  
Three-A to PR Notice 93-7.

Delete the crossed-out statements on your proposed label.  
They are redundant statements or phrases.

Correct the typographical errors circled on your proposed  
label.

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**BASF**

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October 1, 1993

# Storm<sup>®</sup>

herbicide

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

FEB 24 1994

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

7969-76

## Postemergence Herbicide

For broad spectrum weed control in soybeans and peanuts.

A soluble liquid formulation containing:

### Active Ingredients\*

Sodium salt of bentazon: sodium (3-isopropyl-1H-2,  
1,3-benzothiadiazin-4(3H)-one-2,2-dioxide . . . . . 29.2%

Sodium salt of acifluorfen: sodium 5-  
[2-chloro-4-(trifluoromethyl)phenoxy]-2-nitrobenzoate . . . . . 13.4%

Inert Ingredients . . . . . 57.4%

TOTAL . . . . . 100.0%

\*Equivalent to 2.67 pounds per gallon bentazon: 3-(isopropyl)-1H-2,1,3-benzothiadiazin-4(3H)-one 2, 2-dioxide  
and 1.33 pounds per gallon of sodium acifluorfen: sodium 5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-  
nitrobenzoate.

EPA Reg. No. 7969-76

**KEEP OUT OF REACH OF CHILDREN**

## DANGER/PELIGRO

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

### Statement of Practical Treatment

If in eyes: Flush with large amounts of water for at least 15 minutes. Get medical  
attention. If on skin: Wash with plenty of soap and water. Consult a physician if  
irritation persists. If swallowed: Call a physician or Poison Control Center. Drink 1 or 2  
glasses of water and induce vomiting by touching back of throat with finger. Do not  
induce vomiting or give anything by mouth to an unconscious person.

Note to physician: Emesis is recommended.

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

### Agricultural Use Requirement

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

Specimen Label

Net contents 2½ gallons

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BASF Corporation

PO Box 13528, Research Triangle Park, NC 27709

## Precautionary Statements

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### Danger

Causes irreversible eye damage. Harmful if swallowed, inhaled, or absorbed through the skin. Do not get in eyes. Avoid breathing vapor or spray mist and contact with skin or clothing. This product may cause an allergic skin response.

### Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Waterproof gloves
- Shoes plus socks
- Protective eyewear

Discard clothing and other absorbent material 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.

#### 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

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. Do not apply when weather conditions favor drift from target area.

### 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.

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For any requirement specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR 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 intervals. 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
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

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## Storage and Disposal

Keep from freezing. Store above 32°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.

### Container Disposal

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

**Bulk/Mini-bulk containers:** Refillable/reusable containers should be returned to the point of purchase for cleaning and refilling. Refillable/reusable containers must be thoroughly cleaned before refilling.

## In Case of Emergency

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

CHEMTREC ..... 800-424 3300  
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

### Steps to be taken in case material is released or spilled:

Dike and contain spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal. Remove contaminated clothing and wash affected skin areas with water. Wash clothing - before re-use. Keep spill out of all sewers and open bodies of water. *do not*

## General Information

**Storm® herbicide** is intended for selective postemergence control of certain broadleaf weeds in soybeans and peanuts. **Storm** is effective mainly through contact action; therefore, weeds must be thoroughly covered with spray. **Storm** may cause some soybean leaf-speckling and leaf-bronzing to occur under certain conditions. (See **Restrictions and Limitations**).

## Timing of Applications

Apply **Storm** early postemergence, when weeds are small and actively growing and before weeds reach the maximum size listed in the **Application Rate Table**. In peanuts apply from cracking through two expanded tetrafoliate leaves. Soybeans would generally be in the 2 to 3 trifoliate stage. Early

application to weeds produces the most beneficial effect on weed control, 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.

## Water Volume and Spray Pressure

Apply recommended rates of **Storm** as follows:

**Ground Equipment:** Use a minimum of 20 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 for flat fan nozzles spaced 20 inches apart. Do not use flood, whirl chamber, or controlled droplet applicator (CDA) nozzles.

**Air Equipment:** Use 5-10 gallons of water per acre and a maximum of 40 psi pressure. Use only diaphragm-type nozzles producing cone or fan spray patterns.

## Aerial Application - Special Directions

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

**Nozzle Height:** 6 to 10 feet above crop.

**Nozzle Orientation:** Nozzles must be oriented so as to



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discharge straight back with the air stream (opposite the direction of travel of the aircraft) and not more than 20 degrees downward.

Nozzles must not be located farther out than three-fourths the distance from the center of the aircraft to the end of the wing or rotor.

Do not apply Storm by aircraft when wind is blowing at a velocity above 10 mph. Coarse sprays (larger droplets) are less likely to drift.

Do not apply Storm by air if ornamentals or sensitive nontarget crops, such as cotton, sugar beets, sunflowers or okra are within 200 feet downwind.

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.

### **Spray Additives**

Additives are needed with Storm to achieve consistent weed control. Either crop oil concentrate, urea ammonium nitrate (UAN), or nonionic surfactant are recommended. Directions for use for each follow.

### **Oil Concentrate**

A nonphytotoxic oil concentrate (commonly referred to as oil concentrate) can be added to the spray tank with Storm. 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, and 4) prove beneficial in local experience. The exact composition of suitable 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 Oil Concentrates at the end of this section.

With the addition of oil concentrate to Storm on soybeans and peanuts, some leaf burn may occur, but generally all new growth is normal and crop vigor is not reduced. The potential for leaf burn is increased when relative humidity and temperatures are high. A few oil concentrates have exhibited excess leaf burn. Refer to your supplier for information concerning successful local experience prior to purchasing any oil concentrate.

### **Rate of Oil Concentrate:**

**Ground application** - 2 pints/acre (maximum).

**Air application** - 1 pint/acre (maximum).

## **Jar Test for Estimating Suitability of Oil Concentrates**

### **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 other spray volumes, adjust proportionately to above.

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

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

1. Storm
2. Oil Concentrate

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

### **6. Evaluation:**

An ideal tank mix combination 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.

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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 curdlike texture as with cottage cheese.

### **Urea Ammonium Nitrate (UAN)**

Commonly referred to as 28%, 30%, or 32% nitrogen solution, may be added in place of other spray additives for improved pigweed and velvetleaf control. The standard use rates are: ground application -  $\frac{1}{2}$  to 1 gallon/acre and air application:  $\frac{1}{2}$  gallon/acre.

### **Nonionic Spray Surfactants**

The standard recommendation is 1-2 pints of an 80% active nonionic spray surfactant per 100 gallons of water. Consult the spray surfactant label for specific recommendations.

### **Mixing/Spraying**

Fill a thoroughly-cleaned sprayer half to two-thirds full with clean water. Start agitation and add Storm; allow to mix thoroughly. Add spray additive and remaining volume of water. Maintain constant agitation during application.

### **Restrictions and Limitations**

Do not apply more than 2 pints of Storm per application or more than a total of 3 pints of Storm per acre per season in soybeans or peanuts.

In both soybeans and peanuts an additional 2.0 pints of Basagran® herbicide may be applied following an application of 3 pints of Storm per acre, but no additional application of Blazer® herbicide should be made.

In both soybeans and peanuts, an additional 3 pints of Basagran or 1 pint of Blazer may be applied following an application of  $1\frac{1}{2}$  pints of Storm per acre per season.

Do not apply sequential applications of Blazer or Storm within 15 days following the initial application of Storm.

Do not apply Storm to soybeans or peanuts that have been subject to stress conditions such as hail damage, flooding, drought, injury from other herbicides, or widely fluctuating temperatures, as crop injury may result.

Do not apply Storm to soybeans or peanuts that show injury (leaf phytotoxicity and/or other prior herbicide applications, because this injury may be enhanced and/or prolonged).

Physical incompatibility, reduced weed control, or crop injury may result from mixing Storm with other pesticides (fungicides, herbicides, insecticides, or miticides), additives, or fertilizers. BASF does not recommend the use of Storm tank mixes other than those listed on BASF labels, supplemental labels, or other technical information bulletins. Local agricultural authorities may be a source of information when using other than BASF-approved tank mixes.

In the Southeast in-furrow treatments of insecticides/nematicides may predispose peanuts to injury from Storm.

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## APPLICATION RATE TABLE

Applications of Storm® herbicide should be made when weeds are small and actively growing and before weeds reach the maximum size listed below. Such applications generally correspond to the soybean growth stages of unifoliate to tow expanded trifoliate leaves. Soybeans may experience slight yellowing, bronzing, speckling, or burning of leaves under certain conditions. Soybean plants generally out grow this condition within 10 days.

WEEDS CONTROLLED	APPLICATION RATES FOR WEED GROWTH STAGES			
	Leaf Stage Up To	Maximum Height*	Rate of Storm Per Acre	Spray Additive Rate/A
Anoda, Spurred	4	2"	1 ½ pts.	See page 3 for details.
Carpetweed	3 diam.	2"		
Cocklebur	6	6"		
Crotalaria	6	6"		
Croton, Tropic	2	<2"		
Croton, Woolly	2	<2"		
Jimsonweed	6	6"		
Ladysthumb	6	6"		
Lambsquarters, Common*	6	2"		
Mallow, Venice	6	2"		
Morningglories	4	2"		1-2 pts. oil concentrate or ½- 1 gal. UAN  or  1-2 pts/100 gals. surfactant
Mustard, Wild	6	4"		
Nightshade, Black	6	2"		
Pigweed, Redroot	6	2"		
Pigweed, Smooth	6	3"		
Ragweed, Common	6	3"		
Ragweed, Giant	4	6"		
Redweed	4	3"		
Sesbania, Hemp	4	6"		
Sida, Prickly or Teaweed*	4	2"		
Smartweed, Pennsylvania	6	6"		
Starbur, Bristly	6	3"		
Texasweed	3	3"		
Velvetleaf*	4	2"		
Waterhemp, Tall	6	3"		

- \* Control may be inconsistent with this rate of Storm. A later application of Basagran® herbicide may be necessary (see label for Basagran).
- \* Sequential applications of 1 ½ pnts/acre of Storm can be made for controlling subsequent weed flushes or escaped weeds before they reach the maximum weed size listed.
- \* The rate of Storm may be increased to a maximum of 2 ½ pnts/acre (for weed suppression) when weed heights exceed heights listed.

Do not apply Storm during prolonged periods of drought or during unseasonably cold weather, as unsatisfactory weed control may result.

Rainfall or overhead irrigation soon after application may decrease the effectiveness of Storm.

Clean sprayer thoroughly prior

to application of Storm, particularly if a herbicide was used which has the potential to injure the crop to be sprayed.

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 Storm for a period of 18 months

following treatment.

Do not apply Storm within 50 days of soybean harvest and 75 days of peanut harvest.

Do not use treated plants for feed or forage.

Do not apply Storm through any type of irrigation equipment.

Overhead irrigation within 8 hours of application may nullify the effectiveness of Storm.

## Storm + Classic Tank Mix in Soybeans

### General Information

A tank mix of Storm plus Classic® herbicide is recommended for the additional or improved control of bristly starbur, Florida beggarweed, sicklepod, and wild sunflower.

Do not apply this tank mix when soybeans are exhibiting injury from previously-applied pesticides or are exhibiting stress symptoms from disease, nematodes, insects; excessive fertilizer or soil salts; wind injury; frost damage, or high temperature stress or wilt; as increased crop response will result.

### Timing of Applications

For optimum control, apply Storm + Classic to actively growing weeds before they exceed the growth stage and size as specified on each respective label.

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## Rate

Use 1½ pints of **Storm** mixed with up to ¾ ounce of **Classic** for each acre being treated.

## Spray Additive

Adjuvants are needed with **Storm** plus **Classic** to achieve consistent postemergence weed control. The standard label recommendation is one to two pints of an 80% active nonionic spray surfactant per 100 gallons of spray mixture.

## Water Volume and Spray Pressure

For additional information refer to the section entitled **Directions for Use**, page 2.

## Ground Equipment

Use a minimum of 20 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). Use standard high pressure pesticide hollow cone or flat fan nozzles spaced 20 inches apart. Do not use flood, whirl chamber, or controlled droplet application (CDA) nozzles. Adjust the height of the boom above the crop to give complete coverage of all weeds. Maintain sufficient agitation during mixing and spraying to insure a uniform spray mixture.

## Air Equipment

Use a minimum of 5-10 gallons of water per acre. Use 40 psi pressure when using flat fan nozzles and use 40-60 psi pressure when using hollow cone nozzles. Consult the respective labels for special directions for aerial applications.

## Mixing

Fill tank of a thoroughly clean sprayer one-half to two-thirds full with clean water. Start agitation and add the recommended amounts of product in the following order: **Classic**, **Storm**, spray adjuvants; then add the remaining quantity of water.

## Restrictions and Limitations (Partial List)

Always read and follow all label directions when using any pesticide alone or in tank mix combinations. The most restrictive labeling applies.

Do not apply this tank mix to soybeans that have been subjected to stress conditions such as drought; flooding; frost or hail damage; high temperature stress or wilt; injury from herbicides or excess fertilizer or soil salts; wind injury; widely fluctuating temperatures; stress symptoms from disease, nematodes or insects; cold temperatures when maximum daily temperature is below 70°F or soil temperature is below 60°F as weeds will not be actively growing and control may be reduced.

Do not apply the tank mix of **Storm** plus **Classic** within 60 days of soybean harvest.

Do not use treated plants for feed or forage.

Do not apply this tank mix through any type of irrigation system.

Avoid drift to all other crops and nontarget areas.

Follow rotational restrictions as provided on each herbicide's respective labeling.

Thoroughly clean sprayer prior and immediately after application of this tank mix.

## Storm + 2,4-DB Tank Mix in Peanuts

### General Information

A tank mix of **Storm** plus 2,4-DB is recommended for control of larger morningglory, cocklebur, common ragweed, redroot pigweed, jimsonweed, burgherkin, and citron in peanuts when the weed size exceeds that specified in Table 1. Control with this mix may decrease with increasing weed size or density of weed or crop canopy due to poor spray coverage. Do not apply the tank mix when peanuts are exhibiting injury from previously-applied pesticides or are exhibiting stress symptoms from disease, nematodes, insects; excessive fertilizer or soil salts; wind injury; frost damage or high temperature stress or wilt; as increased crop response will result.

### Time of Applications

For optimum control apply **Storm** plus 2,4-DB tank mix to actively growing weeds up to the 8-inch stage, usually 3 to 12 weeks after planting. Applications at later weed stages will result in partial control or suppression.

Peanuts should be at least 2

weeks old when using a tank mix of **Storm** and **2,4-DB**. Do not use after pod-filling stage begins.

### Rate

Mix up to 1 pint of **Butyrac 200**, or **Buxtone** with 1 ½ pints of **Storm** for each acre being treated.

### Spray Additives

Add 1 pint of an 80% active nonionic surfactant per 100 gallons or 1-2 pints of oil concentrate per acre to increase control of weeds. The addition of adjuvants will increase the hormonal 2,4-DB crop response.

Cultivation before or during application is not recommended. Cultivation may put weeds under stress, thus making control more difficult to obtain. Timely cultivation 5-7 days after application will usually assist in weed control.

### Water Volume and Spray Pressure

For additional information refer to the section entitled **Directions for Use** page 2.

### Ground Equipment

For best results, the tank mix should be applied with ground equipment. For broadcast application and thorough coverage of weeds apply with flat fan or hollow cone nozzles spaced 20 inches apart in a minimum of 20 gallons of water per acre with a spray pressure of 40 psi.

### Air Equipment

Use a minimum of 10 gallons of total spray solution per acre. Aerial applicators should review **Restrictions and Limitations and Drift Hazards**.

### Mixing

Fill the spray tank one-half to two-thirds full with water and add the recommended amount of **Storm**, **2,4-DB**, and spray adjuvant while the agitator is running, then add the remaining quantity of water.

**Table 2**

**Storm + 2,4-DB Tank Mix in Peanuts**  
**Application Rate Table**

Product	Product Rate	Weeds Controlled	Additive Information
Storm	1 ½ pts/A	See Table 1 for weeds controlled, leaf stage, maximum height.	Surfactant 1-2 pts/100 gals <sup>b</sup> or 1-2 pts oil concentrate/A
-----plus-----	-----plus-----	Weeds Controlled	
Butyrac 200 <sup>a</sup> or Buxtone	8-16 oz/A	Burgherkin Citron Cocklebur Jimsonweed Morningglory Pigweed, Redroot Ragweed, Common	

<sup>a</sup> When weed size exceeds those specified on Table 1.

<sup>b</sup> Tr addition of a nonionic spray adjuvant will increase the hormonal 2,4-DB crop response.

this hazard; however, the drift control agent may also decrease the weed control activity.

### Restrictions and Limitations (Partial List)

Read and follow all directions and use restrictions on **Storm** and **2,4-DB** labels.

Do not apply the tank mix within 75 days of harvest for peanuts.

Do not apply more than one application of the tank mix to

### Drift Hazards

Care must be taken when applying the tank mix to prevent drift to all nontarget crops. Tobacco, ornamentals, mustards, sugar beets, potatoes, vegetables, and cotton are a few of the crops known to be sensitive to this tank mix. Hormone-type injury in non-target crops can result from trace amounts of **2,4-DB** drift. The use of any cleared drift control agent may reduce

peanuts per growing season.

Do not use rates of **Storm** or **2,4-DB** in excess of those recommended on this label, or excessive injury and possible yield reduction could result.

Do not mix oils, liquid fertilizers or other pesticides with this tank mix except as specifically directed on this label or on other approved supplemental labeling. Aerial applicators must be

familiar with the EPA-registered labels and follow the use precautions. In addition, aerial applicators should follow all applicable state and local regulations. In interpreting the label and the local regulations, the most restrictive limitations should apply to avoid hazards.

## 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.

## Appendix

The following are scientific names for the weeds listed in this section. For specific recommendations on control of these weeds, refer to the Application Rate Table.

### Broadleaf Weeds

Common Name	Scientific Name
Anoda, Spurred	<i>Anoda cristata</i>
Butterprint (see Velvetleaf)	---
Buttonweed (see Velvetleaf)	---
Carpetweed	<i>Mollugo verticillata</i>
Cocklebur	<i>Xanthium strumarium</i>
Crotalaria	<i>Crotalaria spectabilis</i>
Croton, Tropic	<i>Croton glandulosus</i>
, Woolly	<i>Croton capitatus</i>
Jimsonweed	<i>Datura stramonium</i>
Ladysthumb	<i>Polygonum persicaria</i>
Lambsquarters, Common	<i>Chenopodium album</i>
Mallow, Venice	<i>Hibiscus trionum</i>
Morningglory, , Cypressvine	<i>Ipomoea quamoclit</i>
, Entireleaf	<i>Ipomoea hederacae</i>
	var. <i>intergruscula</i>
, Ivyleaf	<i>Ipomoea hederacae</i>
, Palmleaf	<i>Ipomoea wrightii</i>
, Pitted	<i>Ipomoea laucunosa</i>
, Purple	<i>Ipomoea muricata</i>
Moonflower	<i>Jacquemontia tamnifolia</i>
, Smallflower	<i>Ipomoea purpurea</i>
, Tall	<i>Sinapsis arvensis</i>
(Common)	<i>Solanum nigrum</i>
Mustard, Wild	<i>Amaranthus retroflexus</i>
Nightshade, Black	<i>Amaranthus hybridis</i>
Pigweed, Redroot	<i>Ambrosia artemisiifolia</i>
, Smooth	<i>Ambrosia trifida</i>
Ragweed, Common	<i>Melochia corchorifolia</i>
, Giant	<i>Sesbania exaltata</i>
Redweed	<i>Sida spinosa</i>
Sesbania, Hemp	<i>Polygonum pennsylvanicum</i>
Sida, Prickly	<i>Acanthospermum hispidum</i>
Smartweed, Pennsylvania	<i>Caperonia palustris</i>
Starbur, Bristly	
Texasweed	<i>Abutilon theophrasti</i>
Teaweed (see Prickly Sida)	<i>Amaranthus tuberculatus</i>
Velvetleaf	
Waterhemp, Tall	

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