

# BASF

# BAS 530 04 H

## Postemergence Herbicide

For broad spectrum weed control in soybeans.

A soluble liquid formulation containing:

**Active Ingredients\*:**

Sodium salt of bentazon .....	29.0%
Sodium salt of fomesafen .....	12.9%
Inert Ingredients .....	<u>58.1%</u>
<b>TOTAL .....</b>	<b>100.0%</b>

\*Equivalent to 2.66 pounds per gallon bentazon (3-(1-methylethyl-1H-2,1,3-benzothiadiazin-4(3H)-one 2,2 dioxide and 1.21 pounds per gallon of fomesafen (5-(2-chloro-4-trifluoromethyl)phenoxy)-N-methylsulfonyl)-2-nitrobenzamide.

EPA Reg. No. 7969-82

### KEEP OUT OF REACH OF CHILDREN.

## DANGER/PELIGRO

**Precaucion AL USARIO: Si usted ne lee ingles, no use este producto hasta que la etiqueta haya sido explicada ampliamente.**

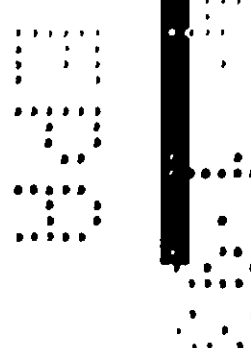
Net Contents 2 1/2 gallons

**BASF Corporation**  
Agricultural Products  
PO Box 13528  
Research Triangle Park,  
North Carolina 27709-3528

~~ACCEPTED~~  
~~with COMMENTS~~  
in EPA Letter Dated:

APR 19 1993

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
7969-82



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## Precautionary Statements

### HAZARDS TO HUMANS DANGER

This product contains fomesafen which has been determined to cause tumors in laboratory animals (mice). Risks can be reduced by closely following use directions and precautions and by wearing the protective clothing specified elsewhere on this label.

This product causes irreversible eye damage. Do not get in eyes, on skin or on clothing. Wear protective clothing, goggles or full face shield and rubber gloves when handling or mixing this product. Wear protective clothing and rubber gloves when spraying. Avoid breathing vapors or spray mist. Wash thoroughly with soap and water after handling and before eating or smoking. Remove contaminated clothing and wash before reuse.

### Statement of Practical Treatment

**If in eyes:** Flush eyes immediately with large amounts of water for at least 15 minutes. Get medical attention.

**If on skin:** Immediately remove contaminated clothing and wash thoroughly with plenty of soap and water. Get medical attention if irritation persists.

**If swallowed:** 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. Call a physician or Poison Control Center.

### Environmental Hazards

Keep out of lakes, ponds and streams. Do not apply directly to water, areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters. Do not apply when weather conditions favor drift from target area.

### Re-entry and Workers' Protection Statements

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 crops treated with this product, consult your State Department of Agriculture for further information.

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## Directions for use

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

## Storage and disposal

Do not allow product to freeze.

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

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide spray mixture, 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

**Metal Containers:** Triple-rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

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

**Glass Containers:** Triple-rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by other state and local procedures.

**Mini Bulk Container Precautions** - Before refilling, inspect thoroughly for damage, such as cracks, puncture, bulges, dents, abrasions and damaged or worn thread on closure devices. **REFILL ONLY WITH BAS 530 04 H.** The contents of this container cannot be completely removed by cleaning. Refilling with materials other than **BAS 530 04 H** will result in contamination and may weaken container. After filling and before transporting, check for leaks. Do not refill or transport damaged or leaking container. **CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.**

## 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:

1. Your local doctor for immediate treatment.
2. Your local poison control center (hospital).
3. BASF Corporation - 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.

## General Information

**BAS 530 04 H** herbicide is intended for selective postemergence control of certain broadleaf weeds in soybeans. **BAS 530 04 H** is effective mainly through contact action; therefore, weeds must be thoroughly covered with spray. Soybeans are tolerant to **BAS 530 04 H** when applied at recommended rates. **BAS 530 04 H** may cause some soybean leaf-speckling and leaf-bronzing to occur under certain conditions; however, soybeans soon outgrow these effects with no subsequent adverse effects noted (See Restrictions and Limitations).

**BAS 530 04 H** is intended for use in the following states or parts of states:

Alabama, Arkansas, Georgia, Louisiana, Mississippi, North Carolina, Oklahoma (east of U.S. Highway 75 and east of Indian Nation Parkway), South Carolina, Tennessee, and Texas (counties east of U.S. Highway 75 and Interstate 45, additional counties of Austin, Brazoria, Chambers, Colorado, Fort Bend, Harris, Matagorda, Waller, and Wharton).

Indiana, Illinois, Maine, Massachusetts, Missouri, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, Vermont and West Virginia.

Iowa, Kansas (all counties east of U.S. Highway 75), Michigan (all counties south of U.S. Highway 46), Minnesota (all counties south of Highway 12), Nebraska (all counties east of U.S. Highway 81), and Wisconsin (all counties south of Interstate 94).

Delaware, Kentucky, Maryland, and Virginia.

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## Timing of Applications

Make postemergence applications of BAS 530 04 H early, when weeds are small and actively growing and before weeds reach the maximum size listed in the Application Rate Table. Delay in application which permits weeds to exceed the maximum size stated will result in inadequate control.

Cultivation before or during the 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

Apply recommended rates of BAS 530 04 H as follows:

**Ground equipment:** Use sufficient spray volume and pressure to ensure thorough weed coverage. Use 10-20 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 or flat fan nozzles spaced 20 inches apart. Do not use flood, whirl chamber, or controlled droplet applicator (CDA) nozzles.

**Air equipment:** Use sufficient spray volume and pressure to ensure thorough weed coverage. 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 and restrictions

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 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 further out than 3/4 the distance from the center of the aircraft to the end of the wing or rotor.

Do not apply BAS 530 04 H by aircraft when the wind is blowing at a velocity above 10 mph. Coarse sprays (larger droplets) are less likely to drift.

Do not apply BAS 530 04 H by air if ornamentals or sensitive non-target 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.

### Addition of Oil Concentrate

A nonphytotoxic crop oil concentrate (commonly referred to as oil concentrate) should be added to the spray tank with BAS 530 04 H to achieve consistent weed control.

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

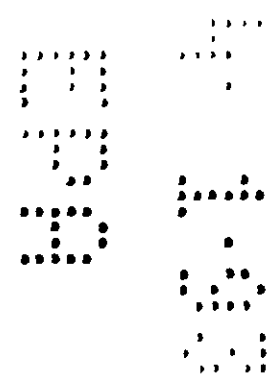
Information see Jar test for estimating suitability of oil concentrates at the end of this section.

With the addition of oil concentrate to BAS 530 04 H on soybeans, 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 temperature are high. A few oil concentrates have exhibited excessive leaf burn. Refer to your supplier for information concerning successful local experience prior to purchasing any oil concentrate.

#### Rate of oil concentrate:

Ground application - 1 pint/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:** Ground application - For 20 gals./A spray volume use 3½ cups (800 ml) of water. Air application - For 10 gals/A spray volume use 1½ cups (400 ml) of water. For other spray volumes, adjust proportionately to above.
3. **Amount of BAS 530 04 H and oil concentrate to add:** Add BAS 530 04 H and oil concentrate 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:**
  - a. BAS 530 04 H
  - b. 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 (film or globules) at the surface.

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.

### Mixing/Spraying

Fill tank of a thoroughly clean sprayer half to two-thirds full with clean water... Start agitation and add BAS 530 04 H; allow to mix thoroughly. Add spray additive and remaining volume of water. Maintain constant agitation during application.

# APPLICATION RATE TABLE

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Applications of BAS 530 04 H should be made when weeds are small and actively growing and before weeds reach the maximum size listed in the Application Rate Table. Such applications generally correspond to the soybean growth stages of unifoliate to two expanded trifoliate leaves. Soybeans may experience slight yellowing, bronzing, speckling, or burning of leaves under certain conditions. Soybean plants generally outgrow this condition within 10 days.

WEEDS CONTROLLED*	WEED GROWTH STAGES		BAS 530 04 H RATE PER ACRE	OIL CONCENTRATE RATE
	MAXIMUM LEAF STAGE	MAXIMUM HEIGHT		
Bristly Starbur	2-6	3"	1.5 pints/A	1.0 pint/A
Black Nightshade	2-4	3"		
Carpetweed	6" Diameter	2"		
Cocklebur <sup>a</sup>	2-4	6"		
Common Lambsquarters <sup>b</sup>	2-4	2"		
Common Purslane	Multi-leaf	6" Diameter		
Common Ragweed	4-6	3"		
Giant Ragweed	Up to 4	6"		
Hemp Sesbania	4	6"		
Jimsonweed	Up to 4	4"		
Ladysthumb	Up to 6	6"		
Morningglory, Cypressvine	4	4"		
, Entireleaf	2	2"		
, Ivyleaf	2	2"		
, Purple Moonflower	2	2"		
, Small White (pitted)	2	2"		
, Tall (Common)	2	2"		
Pennsylvania Smartweed	Up to 6	6"		
Prickly Sida or Teaweed <sup>b</sup>	Up to 4	2"		
Redroot Pigweed	Up to 6	3"		
Redweed	2-4	3"		
Showy Crotalaria	4	2"		
Smooth Pigweed	Up to 6	3"		
Spurred Anoda	4	2"		
Tropic Croton	2	1"		
Velvetleaf	Up to 4	2"		
Vernice Mallow	Up to 6	2"		
Wild Mustard	Up to 6	4"		
Wild Poinsettia	4	4"		
Wild Sunflower	2	3"		

\* Do not treat earlier than leaf stage shown and do not count cotyledon leaves.  
<sup>a</sup> Control may be inconsistent with this rate of BAS 530 04 H. A later application of Basagran may be necessary (see label for Basagran).  
<sup>b</sup> See Appendix for scientific names.

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## **Restrictions and Limitations**

**Do not apply more than a total of 1 ½ pints of BAS 530 04 H per acre per season.**

**Make applications of BAS 530 04 H before soybeans bloom.**

**Do not apply BAS 530 04 H to soybeans 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 BAS 530 04 H to soybeans that show injury (leaf phytotoxicity and/or plant stunting) produced by other prior herbicide applications, because this injury may be enhanced and/or prolonged.**

**Do not apply BAS 530 04 H during prolonged periods of drought or during unseasonably cold weather, as unsatisfactory weed control may result.**

**Rainfall or overhead irrigation soon after application may nullify the effectiveness of BAS 530 04 H.**

**Physical incompatibility, reduced weed control, or crop injury may result from mixing BAS 530 04 H with other pesticides (fungicides, herbicides, insecticides, or miticides), additives, or fertilizers. BASF does not recommend the use of BAS 530 04 H tank mixes other than those listed on BASF labels, supplemental labels, or technical information bulletins. Local agricultural authorities may be a source of information when using other than BASF approved tank mixes.**

**Clean sprayer thoroughly prior to application of BAS 530 04 H, particularly if a herbicide was used which has the potential to injure the crop to be sprayed.**

**Do not graze treated areas or harvest for forage or hay.**

**In the case of crop failure, only soybeans may be immediately replanted.**

**Avoid overlapping spray swaths. Otherwise, injury may occur to rotational crops.**

**Avoid drift to all other crops and nontarget areas.**

**Do not apply BAS 530 04 H through any type of irrigation system.**

**Do not apply Reflex® 2LC herbicide during the same year after application of BAS 530 04 H.**

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Do not apply more than 3.0 pints of Basagran® herbicide following an application of 1.5 pints of BAS 530 04 H per acre per season.

Do not apply BAS 530 04 H to any field more than once every two years in the following states or parts of states:

Indiana, Illinois, Maine, Massachusetts, Missouri, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, Vermont, West Virginia, Iowa, Kansas (all counties east of U.S. Highway 75), Michigan (all counties south of U.S. Highway 46), Minnesota (all counties south of Highway 212), Nebraska (all counties east of U.S. Highway 81), Wisconsin (all counties south of Interstate 94), Delaware, Kentucky, Maryland and Virginia.

### Rotational Crop Restrictions

The following rotational crops may be planted after applying BAS 530 04 H at recommended rates in soybeans:

<u>Crop to be Planted</u> <u>Application)</u>	<u>Minimum Rotation Interval</u> <u>(Months After Last BAS 530 04 H Application</u>
Small grains, such as wheat, barley, rye .....	4
Corn, cotton, peanuts, rice .....	10
To avoid crop injury do not plant sunflowers, sugar beets, sorghum or any other crop not listed above within .....	18

Do not graze rotated small grain crops or harvest for livestock forage or straw.

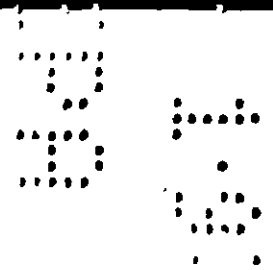
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### APPENDIX

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

#### Broadleaf Weeds

Common Name	Scientific Name
Bristly Starbur	<i>Acanthospermum hispidum</i>
Black nightshade	<i>Solanum nigrum</i>
Carpetweed	<i>Mollugo verticillata</i>
Cocklebur	<i>Xanthium strumarium</i>
Common Lambsquarter	<i>Chenopodium album</i>
Common Purslane	<i>Portulaca oleracea</i>
Common Ragweed	<i>Ambrosia artemisiifolia</i>
Giant Ragweed	<i>Ambrosia trifida</i>
Hemp Sesbania	<i>Sesbania exalta</i>
Jimsonweed	<i>Datura stramonium</i>
Ladysthumb	<i>Polygonum persicaria</i>
Morningglory, Common	<i>Ipomoea purpurea</i>
, Cypressvine	<i>Ipomoea quamoclit</i>
, Ivyleaf	<i>Ipomea hederacea</i>
, Entireleaf	<i>Ipomea hederacea</i>
, Pitted	<i>Ipomoea lacunosa</i>
, Purple Moonflower	<i>Ipomoea muricata</i>
Pennsylvania Smartweed	<i>Polygonum pensylvanicum</i>
Pigweed, Redroot	<i>Amaranthus retroflexus</i>
, Smooth	<i>Amaranthus hybridis</i>
Prickly Sida or Teaweed	<i>Sida spinosa</i>
Redweed	<i>Melochia corchorifolia</i>
Showy Crotalaria	<i>Crotalaria brevidens</i>
Spurred Anoda	<i>Anoda cristata</i>
Velvetleaf	<i>Abutilon theophrasti</i>
Venice Mallow	<i>Hibiscus trionum</i>
Wild Mustard	<i>Sinapsis arvensis</i>
Wild Sunflower	<i>Helianthus annus</i>
Wild Poinsettia	<i>Euphorbia heterophylla</i>



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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 the 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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