BASF

Galaxy TM herbicide

Postemergence Herbicide

For broad spectrum weed control in soybeans.

A soluble liquid formulation containing.

Active ingredients*

Sodium salt of bentazon: sodium (3-isopropyl-1 <i>H</i> -2, 1,	
3-benzothiadiazin-4 (3H)-one-2, 2-dioxide	33.4%
Sodium salt of acifluorfen: sodium 5-	
[2-chloro-4-(trifluoromethyl) phenoxy]	
-2-nitrobenzoate	6.8%
Inert ingredients	59.8%
Total	
*Equivalent to 3.00 pounds per gallon bentazon: 3-lisopro	

*Equivalent to 3.00 pounds per gallon bentazon: 3-(isopropyl)-1H-2,1,3-benzothiadiazin-4 (3H)-one 2, 2-dioxide and 0.67 pound a per gallon of sodium acifluorfen: sodium 5-[2-chloro-4-(trifluoromethyl) phenoxy]-2-nitrobenzoate.

EPA Reg. No. 7969-77

KEEP OUT OF REACH OF CHILDREN.

DANGER/PELIGRO

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicada ampliamente.

Net contents 21/2 gallons

BASF Corporation

PO. Box 13528, Pese, rch Triangle Park, NC 27709

ACCEPTED

MAY 21 1992

Under the Federal Insecticide, Funcicide, and Roder, deide Act, as amended, for the pesticide revisited under EPA Reg. No. 1969 - 177

Specimen Label

Hazards to Humans

DANGER

Causes eye damage. Harmful if swallowed, inhaled or absorbed through the skin. Do not get in eyes. Wear goggles or face shield when handling. Avoid breathing vapor or spray mist and contact with skin or clothing. In case of contact, immediately remove contaminated clothing and shoes. Wash contaminated clothing with soap and hot water before re-use. May cause allergic skin response.

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: Dilute by giving 2 glasses of water to drink and call a physician. Never give anything by mouth to an unconscious person.

Note to physician: Emesis is recommended.

Environmental hazards

Do not apply directly to lakes, ponds or streams. Do not contaminate water when disposing of equipment washwaters. 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 various crops treated with this product, consult your State Department of Agriculture for further information.

Directions for use

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

Storage and oisposal Keep from freezing. Store above 40°F.

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

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Triple rinse container (or equiv-

Triple rinse container (or equivalent). 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.

Do not re-use empty container.

In case of emergency
In case of large-scale spillage regarding this product, call:
CHEMTREC 800-424-9300
BASE Corporation 800-832-HELP
In case of medical emergency

Your local doctor for immediate treatment.

regarding this product, call:

- Your local poison control center (hospital).
- 3. BASE 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

Galaxy herbicide is intended for selective posternergence control of certain broadleaf weeds. Galaxy is effective mainly through contact action; therefore, weeds must be thoroughly covered with spray. Galaxy may cause some soybean leaf-speckling and leaf-bronzing to occur under certain conditions. (See Restrictions and limitations.)

Tim. Jof applications
Make postemergence applications
of Galaxy early, when weeds are
small and actively growing and before weeds reach the maximum
size listed in the Application
Pate 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 **Galaxy** 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 or flat fan nozzles spaced 20 inches apart. Do not use flood, whirt 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 and restrictions

To obtain uniform coverage and to avoid drift hazards, the followin; 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 farther out than three-fourths the distance from the center of the aircraft to the end of the wing or rotor.

Do not apply **Galaxy** by aircraft when wind is blowing at a velocity above 10 mph. Coarse snrays (larger droplets) are less tikely to drift.

Do not apply **Galaxy** by:

ornamentals or sensitive applications, 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 **Galaxy** to achieve consistent weed control. Either crop oil concentrate, urea ammonium nitrate (UAN), or ammonium sulfate are recommended. Directions for use of each follow.

Oil concentrate

A nonphytotoxic crop oil concentrate (commonly referred to as oil concentrate) can be added to the spray tank with **Galaxy**.

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 **Galaxy** 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 concerring 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 suitab, of oil concentrates

- Water supply: Use only water from intended source and at the source temperature.
- 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 Galaxy and oil concentrate to add: Add Galaxy and oil concentrate at the rate of 1 teaspoon (5 ml) for each pint of recommended label
- Add components in following sequence, gently mixing betwo component additions:
 - a. **Galaxy**
 - b. Oil concentrate
- 5. Cap jar, invert 10 cycles, let stand for 15 minutes, evaluate.
- 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.

Urea ammonium nitrate (UAN) or ammonium sulfate

For improved velvetleaf control in soybeans, a UAN solution (commonly referred to as 28%, 30% or 32% nitrogen solution) or ammonium sulfate may be added in place of crop oil concentrate. UAN and ammonium sulfate are agricultural grade fertilizers used by dealers for agricultural applications.

With the addition of UAN or armmonium sulfate, a leaf burn on soybeans may occur, but the new growth is normal and crop vigor is not reduced. Refer to your supplier of **Galaxy** for information concerning successful local experience prior to using UAN or ammonium sulfate. Do not use brass or aluminum nozzles when spraying with UAN or ammonium sulfate.

Use rate for UAN or ammonium sulfate

Ground application: UAN-1/2 to 1 gallon per acre. Ammonium sulfate-2.5 lbs. per acre.

Air application: UAN-1/2 gailon per acre. Ammonium sulfate—BASF does not recommend the application of ammonium sulfate if applied in less than 10 gallons per acre due to potential problems with precipitation in reduced volumes. Ammonium sulfate can be applied by air at 2.5 lbs. per acre if the application is made in more than 10 gallons per acre of total solution. Use ammonium sulfate only if it has been demonstrated to be successful in local experience.

Mixing/spraying

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

Oil Consentrate plus Mitrogen Solution

A nonphytotoxic oil concentrate (as referred to above) p)us a nitrogen solution (UAN or AMS) can be added to the spray tank with Galaxy. This combination is recommended You use in areas of low humidity and moderate temperatures when lambquarters, reguesed and velvetleaf are to be controlled. Excessive crop, injury can occur with this combination in high humidity and high temperature regions. Do not exceed recommended rates and adjust additive rate proportionately to gallonage apolled.

Ground application: Oil concentrate* 0.25% volume/volume (2 pts per 100 gallons spray solution)

plus

Mitrogen solution: UAN: 2.5% volume/volume (1~1/2 gallons per 100 gallons spray solution) AMS: 6-1/4 lbs./100 gal spray solution (1.25 lbs/A @ 20 gal/A)

* A nonionic surfactant can be substituted for oil concentrate.

Application Rate Table

Applications of Galaxy herbicide should be made when weeds are small and actively growing and Lefcre weeds reach the maximum size listed below Such applications generally correspond to the soybean growth stages of unifoliate to two expanded trifoliate leaves. Soybeans may experience si, the vellowing, bronzing, speckling, or burning of leaves under certain conditions. Soybean plants generally outgrow this condition within 10 days.

		Application Rates for Weed Growth Stages			
	Weeds Controlled	Lee! Stage Up to	Max. Height	Rate of Galaxy per Acre	Spray Additives Rate/A
	Anoda, Spurred	6	3″		
	Beggarticks	1 6	6"	(See ·
	Buckwheat, Wild	4	3"	}	page 3
	Cocklebur	6 4 6 6 6 6	6" 3" 6" 4" 3" 2" 6"		for details
	Dayllower	6	4"		
	Devilsclaw ^o	6	3"		
	Galinsoga [®]	6	2"	2	1-2 pints
	Jimsonweed	6	6"	pints	oil
i	Ladysthumb	6	6"		concentrate
	Lambsquarters.	(or if velvetleaf
ĺ	Common	{	2"	ĺ	is the
i	Mallow, Venice	6	1 A"	·	primary
i	Morningglories'	4	2"	ĺ	weed target
1	Mustard, Wild	6	4"		and
1	Nightshade, Black	4 6 2	2" 4" <2" 6-8"		lambsquarters
	Nutsedge, Yellow	! —	6-8"		or common
	Pigweed, Redroot	4 4	2" 2" 4"		ragweed are
	Pigweed, Smooth	4	2"		not a
	Poinsettia, Wild	4	4"		problem, use
	Purslane, Common	4	1"		either
1	Ragweed, Common	6	<u>.</u> 3"	ĺ	1/2 to 1 gallon
	Ragweed, Grant	4	1" 3" 6"	ļ	UAŇ
	Redweed	6	6"		Of
1	Shepherdspurse:	6	4"		2 5 lbs.
ĺ	Sida, Prickly or	i			ammonium
	Teaweed	6	3"		sulfate in
ı	Smartweed,	1	ļ	1	place of
	_ Pennsylvania	6	6")	oil
	Starbur, Bristly	6 4	2" 5"	•	concentrate.
	Sunflower, Wild	1 4	5"	}	4.25% V/V
	Thistle, Canada	~	8" to bud stage	}	4.03,414
	Velvetleaf	6	5"		pho 2.5%
	Waternemp, Tall	4	2"		VIV CAN -

*Do not treat earlier than leaf stage shown and do not count cotyledon leaves Control may be inconsistent with inis rate of Galaxy. A later application of Basagran' herbicide may be necessary (see label for Basagran) Control may be partial or inconsistent with this rate of Galaxy. A later application of Blazer' herbicide may be necessary (see label for Blazer). Do not treat rosette before seed stalk appears

(See section entitled Spray Additives)

Mestrictions one minimum. Do not apply more than a total of 3 pints of Galaxy per acre per season. Do not apply more than 13/4 pints of Basagran or 1.0 pint of Blazer following an application of 3 pints of Galaxy per acre per

Do not apply Galaxy 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 Galaxy to soybeans that show injury (leaf phytotoxicity and/or plant stunting) produced by any other prior herbicide applications, because this injury may be enhanced and/or protonged. Do not apply Galaxy during prelonged 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 Galaxy.

Physical incompatibility, reduced weed control, or crop injury may result from mixing Galaxy with other pesticides (fungicides, herbicides, insecticides, or miticides). additives, or fertilizers. BASF does not recommend the use of Galaxy 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 Do not apply Galaxy within 50 days of soybean harvest. Root crops (such as carrots, turnips, sweet potatoes, etc.) must not be planted in fields treated with Galaxy for a period of 18 months following treatment. In case of crop failure, only pea-

nuts or soybeans may be immediately replanted. : ** Do not use treated plants for feed or forage.

Do not apply Galaxy through any type of irrigation equipment

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	Anoda cristata
Beggarticks	Bidens frondosa
Buckwheat, Wild	Polygonum convolvulus
Buttonweed (see Velvetleaf)	_
Butterprint (see Velvetleaf)	-
Cocklebur	Xanthium strumarium
Dayflower	Commelina spp.
Devilsclaw	Proviscidea louisianica
Galinsoga	Galinsoga spp.
Jimsonweed	Datura stramonium
Ladysthumb	Polygonum persicaria
Lambsquarters, Common	Chenopodium album
Mallow, Venice	Hibiscus trionum
Morningglory, Common (tall)	ipomoea purpurea
, Cypressvine	Ipomoea quamoclit
. Entireleaf	Ipomoea hederacea
, Ivyleaf	!pomoea hederacea
, Palmleat	Ipomoea wrightii
Pitted	Ipomoea lacunosa
, Purole Moonflower	Ipomoea muricata
. Smallflower	Jacquemontia tamnifolia
Mustard, Wild	Sinapsis arvensis
Nightshade, Black	Solanum nigrum
Pigweed, Redroot	Amaranthus retroflexus
. Smooth	Amaranthus hybridis
Poinsettia, Wild	Euphorbia heterophylla
Pursiane, Common	Portulaca oleracea
Ragweed, Common	Ambrosia artemisiilolia
, Giant	Ambrosra trifida
Redweed	Melochia corchorifolia
Shepherdspurse	Capsella bursa-pastoris
Sida Prickly or Teaweed	Sida spinosa
Smartweed, Pennsylvania	Polygonum pensylvanicum
Starbur, Bristly	Acanthospermum hispidum
Sunflower, Wild	Helianthus annuus
Thistle, Canada	Cirsium arvense
Velvetleaf	Abutilon theophrasti
Vvaterhemp, Tall	Amaranthus tuberculatus

Sedges

Common Name	Scientific Name
Nutsedge, Yellow	Cyperus esculentus

Conditions of sale and warranty

The Directions for use of this produced uct 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 COR-PORATION ("BASF") or the Seller. All such risks shall be assumed by the Buyer.

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Butyrac is a registered trademark of Rhone-Poulenc Ag Products Co.

Classic and Pinnacle are registered 'trademarks of F.I. duPont de Nemours and Company, Incorporated.

Galaxy is a trademark and Blazer is a registered trademark of BASF Corporation

Pursuit is a registered trademark of America Cyanamid Company

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