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

MAY 17 1997

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Karen S. Stumpf  
CIBA-GEIGY CORP.  
P.O. BOX 18300  
GREENSBORO, NC 27419

Subject: Label Amendment Submission of 06/22/93 in Response to  
PR Notice 93-7  
EPA Reg. No. 100-701  
AMBER HERBICIDE

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 reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (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 not been reviewed or 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:

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
- AND
- WITHIN one year from date of this acceptance.



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

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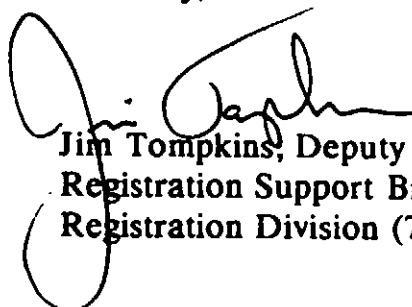
Submit the final printed labeling via the U.S. Postal Service to:

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

Hand or courier deliveries of final printed 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

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division

Karen S. Stumpf  
CIBA-GEIGY CORP.  
P.O. BOX 18300  
GREENSBORO NC 27419

Comment for: EPA Reg Nr.100-701  
AMBER HERBICIDE

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

User Safety Recommendations must either be placed in a box  
or printed on the label in a contrasting color from  
surrounding text.

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MASTER LABEL

Amber®

Herbicide

For control of broadleaf weeds in wheat and barley

Active Ingredient:

Triasulfuron: 3-(6-methoxy-4-methyl-1,3,5-triazin-2-yl)-1-[2-(2-chloroethoxy)-phenylsulfonyl]-urea..... 75%

Inert Ingredients: ..... 25%

Total: ..... 100%

© 1993 Ciba-Geigy Corporation

8 x 1.4 Ounce Water Soluble Packets

Total 11.2 Ounces Net Weight

Made in Switzerland

Amber is a water dispersible granule.

EPA Reg. No. 100-701

EPA Est. 43788-SW-00<sup>c</sup>

EPA Est. 35977-SW-01

(Superscript is first letter of lot number on bag)

KEEP OUT OF REACH OF CHILDREN

CAUTION

See additional precautionary statements and directions for use inside booklet.

The outer protective bag contains Amber in eight small water soluble packets. These packets and their contents dissolve in water. After opening outer bag, immediately dump the required number of unopened packets into the partially filled sprayer or mix tank. Do not handle the soluble packets or expose them to moisture, as this may cause rupturing.

CGA 89L7D 063

ACCEPTED  
with COMMENTS  
In EPA Letter Dated  
MAY 17 1994

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
100-701

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DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

IMPORTANT: Read the entire Directions for Use and the Conditions of Sale and Warranty before using this product. If terms are not acceptable, return the unopened product container at once.

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Conditions of Sale and Warranty

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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 the manner of use or application all of which are beyond the control of Ciba-Geigy or the Seller. All such risks shall be assumed by the Buyer.

Ciba-Geigy 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. Ciba-Geigy makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall Ciba-Geigy or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product. Ciba-Geigy 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 Ciba-Geigy.

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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. 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.

**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 12 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

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR WEED CONTROL, AND/OR ILLEGAL RESIDUES.

General Information

Amber is a selective herbicide for the control of many weeds in wheat (including durum wheat), barley, and fallow cropland.

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Refer to Table 1 for a listing of weeds controlled. It is a 75 percent water dispersible granule which must be thoroughly mixed in water and applied as a spray.

Growth of susceptible weeds is inhibited soon after Amber application. Leaves of susceptible plants turn yellow and/or red followed by death of the growing point. These visible effects of control may not be observed until 1-3 weeks after application depending upon weed species, growing conditions, and Amber rate.

Thorough coverage is necessary to provide good weed control.

Use Amber to control weeds in wheat, barley, and fallow cropland in the following states only: AZ, CO, ID, KS, MN, MT, ND, NE, NM, NV, OK, OR, SD, TX, UT, WA, and WY.

Do not use Amber in the San Luis Valley of CO or in sections of WA and OR west of the Cascade Mountains. In WA, abide by all sulfonyleurea aerial application rulings in effect by the Washington Department of Agriculture.

#### Spray Equipment

Use either ground or aerial spray equipment. Calibrate spray equipment before use.

Use equipment which is capable of continuous and vigorous tank agitation. When the tank is full, the agitation system should be capable of creating a rippling or rolling action on the liquid surface.

Use a 16-mesh strainer at the tank outlet. For the nozzles, use the screen recommended by the nozzle supplier. For ground application of 3-20 gals./A, use only conventional or low pressure flat fan nozzles to assure adequate coverage. For ground application of more than 20 gals./A, rain-drop or floodjet nozzles may be used. In dense stands of wheat or barley, use an adequate spray volume to provide uniform coverage of the weeds.

For aerial application, use a spray volume of 1-5 gals./A. Apply at a maximum height of 10 feet above the crop with low drift nozzles at a maximum pressure of 40 psi and wind speed not exceeding 10 mph to assure accurate application within the target area.

Avoid application under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur.

Avoid application to humans or animals. Flagmen and loaders should avoid inhalation of spray mist and prolonged contact with skin.

Do not apply Amber through irrigation systems.

Mixing Procedures

Water as Carrier:

1. Be sure the sprayer is clean.
2. Always use clean water. Fill the tank with 25% of the total water volume needed, and begin agitation.
3. Be certain that the agitation system is working properly and that it creates a rippling or rolling action on the liquid surface.
4. Add the appropriate number of Amber soluble packets to the tank (Refer to Table 2).
5. Complete filling of the tank, maintaining sufficient agitation at all times to ensure surface action. This applies to both spray and nurse tanks.
6. Disperse Amber completely (agitate for 3-5 minutes) before adding surfactant or another chemical to the tank.
7. A nonionic surfactant with a minimum of 80% of the constituents effective as a spray adjuvant (e.g., X-77®) must be added at 1-2 qts./100 gals. of spray volume (0.25 to 0.5% v/v) for all applications to emerged weeds. Use 0.5% surfactant when applying Amber to dense weed populations or when applying Amber in a spray volume of 10 or less gals./A.
8. Maintain continuous agitation while the spray suspension is in the tank.
9. Use the spray suspension as soon as it is prepared.

Liquid Fertilizer as Carrier:

The mixing steps are the same as listed above except the Amber must first be dispersed in water as described in the following steps prior to adding it to the spray tank [step number 4 above

1. Fill a 2 1/2 gal. container with 2 gals. of water.
2. Place the appropriate number of Amber soluble packets (Refer to Table 2) in the container and wait 30 seconds.
3. Close the container and shake it vigorously until the packets are dissolved and the product is completely dispersed.
4. When the water soluble packets and the Amber are completely



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dispersed, add the mixture to the spray tank.

5. Rinse the 2 1/2 gal. container with water, and add the rinsate to the spray tank.
6. Continue with steps 5-9 in the Water as Carrier instructions.

OR

Amber may be mixed in an inductor cone before adding it to the liquid fertilizer on sprayers so equipped as described in the following steps.

1. Shut off inductor cone valve and fill the cone with 2-3 gals. of water.
2. Add the appropriate number of Amber soluble packets (Refer to Table 2) to the water in the cone.
3. Wait one minute to allow the packets and Amber to completely disperse.
4. When the water soluble packets and the Amber are completely dispersed, open the inductor cone valve in order to add the Amber mixture to the spray tank.
5. Rinse the inductor cone thoroughly and keep the valve open so the rinsate is added to the spray tank.
6. Continue with steps 5-9 in the Water as Carrier instructions.

Note: The addition of surfactant to spray mixtures more than 50% fertilizer can cause increased temporary leaf burn. The surfactant may be omitted from the spray solution if the carrier contains more than 50% fertilizer. Control of some of the more difficult to control weeds (bottom of Table 1) may be reduced under unfavorable conditions (i.e., larger weeds, dry soil, etc.). For optimum control of these species, a 50% fertilizer solution as a carrier should be used with an appropriate surfactant.

Recommendations to Avoid Spray Drift

Do not allow spray from ground or aerial equipment to drift onto adjacent land or crops. When drift may be a problem, do everything possible to reduce spray drift, including:

- Do not spray if wind speeds are or become excessive. Do not spray if wind speed is 10 mph or greater. If sensitive crops or plants are downwind, extreme caution must be used under all conditions. Do not spray if winds are gusty.

- Use extreme caution when conditions are favorable for drift (high temperatures, drought, low relative humidity), especially when sensitive plants are located nearby.
- Drift from aerial applications of the herbicide is likely to result in damage to sensitive plants adjacent to the treatment site. This damage can occur at levels below the concentrations that can be detected with chemical analysis.
- Do not apply when a temperature inversion exists. If inversion conditions are suspected, consult with local weather services before making an application.
- Further reductions in drift can be obtained by:
  1. Using large droplet size sprays. Do not use nozzles that produce small droplets. Orient nozzles downward and slightly backward as needed to reduce drift for ground applications.
  2. Orienting nozzles straight back with the windstream, using straight stream orifices for aerial applications. Use the lowest number of nozzles practical with the largest possible orifice size to obtain the minimum one GPA volume. Application height and boom length should be set according to manufacturer's instructions to minimize drift.
  3. Reducing the volume of spray mixture (for example a minimum of 10 GPA for ground applications) by using higher flow rate nozzles. Using lower pressure with the appropriate nozzle to obtain higher volumes will also reduce spray drift.
  4. Applying as close to target plants as practical while maintaining a good spray pattern for adequate coverage.

Cleaning the Equipment after Amber Application

Many crops are extremely sensitive to very low rates of Amber. Special attention must be given to cleaning spray equipment before spraying a crop other than wheat or barley.

Mix only as much spray suspension as needed. Immediately after spraying, remove all traces of Amber from spraying equipment using this procedure:

1. Flush tank and hoses with clean water for 10 minutes.
2. Refill spray tank with water, and add 1 gallon household ammonia (containing 3% active) per 100 gals. of water\*. Flush solution through hoses, boom and nozzles, and let

stand in tank for 15 minutes with agitation before disposing according to state and local regulations.

3. Repeat step 2.
4. Repeat step 1.
5. Clean nozzles and screens separately. To remove traces of cleaning solution, flush the nozzles and screens with clean water.
6. Flush boom and hoses with clean water for 5 minutes just before using the sprayer for the first time after the Amber application.

\*Note: A commercial tank cleaner may be used in place of the ammonia solution if it has been proven effective for use with Amber. Contact your Ciba Plant Protection representative or dealer for information about the suitability of specific tank cleaning products before using them according to the manufacturer's directions.

#### Weed Resistance to Sulfonylurea Herbicides

In some fields, there are naturally-occurring biotypes of kochia, Russian thistle, chickweed, prickly lettuce and annual ryegrass that will not be controlled by sulfonylurea herbicides.

Control of these weeds may be excellent with the use of Amber in many fields but, where there is the known occurrence of sulfonylurea-resistant biotypes, Amber must be tank mixed or applied sequentially with an appropriate registered herbicide having a different mode of action (such as 2,4-D, MCPA, Banvel®, or Buctril®) to insure control of these sulfonylurea-resistant biotypes.

The occurrence of sulfonylurea-resistant weed biotypes can be prevented or delayed by using Amber in tank mixtures and/or in sequential applications with a registered herbicide having a different mode of action, and by not allowing weed escapes to flower. Post-harvest tillage or application of a herbicide with a different mode of action must be made to control any weed escapes before they flower or set seed. If weeds will flower before harvest, make a sequential application of an appropriate herbicide with a different mode of action\* from Amber. A list of herbicides with the same mode of action as Amber can be obtained from your local Ciba Plant Protection representative. Amber applied to fallow cropland must be applied as a tank mixture.

Do not use Amber alone in any field where sulfonylurea-resistant biotypes of any weed species have been identified.

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Because of the prevalence of resistant kochia and Russian thistle biotypes in ID, WA, MT and ND, in these states Amber must be applied postemergence only in combination with a herbicide registered for use in wheat having a mode of action different from Amber. Amber may not be applied to fallow cropland in areas of these states where soil pH is 7.5 or greater.

In CO and the Panhandle of NE, use Amber postemergence in combination with a herbicide having a different mode of action if kochia or Russian thistle are prevalent. See Ciba literature or contact the local representative for suggested tank mix partners.

An application of a herbicide with a different mode of action from Amber or a tillage operation must be made to control any weeds before they flower that may be present in fallow cropland treated with Amber.

Do not apply Amber or other herbicides with the same mode of action within a twelve month period after an Amber application, except for split applications as described below. For soils with pH values above 7.5, do not apply Amber or any other herbicide with the same mode of action within 15 months after the initial Amber application. If additional weed control is needed, use a herbicide with a different mode of action from Amber.

\*Mode of action is the biochemical mechanism for interfering with plant growth.

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Postemergence Amber Application to Winter or Spring Wheat, Winter or Spring Barley, or Postemergence to Weeds in Fallow Cropland

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Apply Amber at the standard or enhanced rate when the target weeds shown in Table 1 are ACTIVELY GROWING AND ARE WITHIN THE HEIGHT AND DIAMETER RANGE SPECIFIED, and the wheat or barley is in the TWO-LEAF TO PRE-BOOT STAGE. Optimal control can be obtained for most weed species when the weeds are 2 inches or less in height or diameter. Very large weeds may only be suppressed. Do not apply the enhanced rate in areas with a soil pH greater than 7.5 except in the Blacklands of TX and OK. Use the low range (0.28 oz./A) of the standard rate unless additional length of control is needed. If additional length of control is needed, or if weeds are near the maximum height, use the 0.35 oz./A rate of Amber. This rate of Amber can also be used for the more difficult to control weeds (such as wild buckwheat) at the bottom of the standard rate section of Table 1. Include a nonionic surfactant in the spray mixture as described in the Mixing Procedures section.

Amber will also provide preemergence control of the weeds listed in Table 1 that may germinate after application, provided rainfall, enough to wet the soil 2-3 inches deep, moves Amber into

the soil before they emerge. Application of Amber at the enhanced rate will increase the duration of weed control.

For optimum control, fall applications of Amber to weeds in winter wheat, winter barley, or fallow cropland must be made before the emerged weeds are exposed to extended freezing temperatures.

Precaution: To avoid possible crop injury, do not apply Amber to wheat or barley that is stressed due to (1) extremes in temperature or rainfall; (2) disease or insect pressure; or (3) when extremes in temperature or rainfall are expected within one week of application.

Amber must be tank-mixed with other appropriate herbicide(s) to obtain broad spectrum weed control in fallow cropland. Refer to the Amber Tank Mixtures with Other Herbicides section.

#### Preemergence Amber Application to Winter or Spring Wheat

Apply Amber preemergence to wheat at the enhanced rate for the control of annual ryegrass and for suppression of light to moderate Japanese brome, downy brome and cheat populations that have not emerged. Sufficient and timely rainfall, enough to wet the soil 2-3 inches deep, is required for preemergence activity. It may be necessary to apply a sequential application of Sencor® or Lexone® if suppression of Japanese brome, downy brome or cheat is not adequate after Amber application. Refer to the Sencor or Lexone label for directions for use and wheat variety restrictions. Amber will not adequately suppress heavy or dense populations of downy brome or cheat.

Preemergence Amber application at the standard or enhanced rate will provide control of the weeds listed in Table 1 provided rainfall, enough to wet the soil 2-3 inches deep, moves Amber into the soil before weed emergence.

Precaution: Do not apply Amber preemergence to late fall-seeded winter wheat if environmental conditions that stress wheat are expected within 2 weeks after application.

#### Split Amber Applications to Winter Wheat (Soil pH less than 7.5)

Amber may be applied as a split application to winter wheat to control susceptible weeds that may be expected to emerge later in the growing season. Make the initial application of Amber either preemergence or postemergence at the standard rate, and follow with an additional postemergence application at the standard rate no sooner than 60 days after the first application. The second application must be tank-mixed with a herbicide registered for use in wheat having a different mode of action (such as 2,4-D, MCPA, Banvel, and Buctril) to avoid selection of resistant weed biotypes. The second application

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must be applied no later than pre-boot, or earlier if required by the directions for use of the tank mix partner. Include a nonionic surfactant in the spray mixture as described in the Mixing Procedures section.

Precaution: Weed control is dependent upon weed species, size at application, growing conditions, and the level of competition from the crop. Weed control may be reduced if weeds are stressed due to drought, excess cold or warm temperatures, or other factors which reduce growth. Competition of the crop with the weeds helps in providing control.

Note: To avoid possible illegal residues, do not apply more than a total of 0.56 oz. of Amber/A when making split applications.

Table 1. Weeds Controlled or Suppressed with Amber at the Standard and Enhanced Rate.

STANDARD RATE (0.28 oz./acre = 1 soluble packet/5 acres  
or 0.35 oz./acre = 1 soluble packet/4 acres)

<u>Weeds Controlled</u>	<u>Maximum Height/Diameter for Optimum Control (inches)</u>
blue mustard (purple mustard) field pennycress (fanweed) flixweed shepherdspurse tall hedge mustard tansymustard tumble mustard (Jim Hill mustard) Virginia pepperweed Wild Mustard	No Limit
common ragweed common sunflower kochia* prickly lettuce (China lettuce)* wild radish	Less than 6
bushy wallflower buttercup coast fiddleneck (tarweed) common purslane corn gromwell cutleaf eveningprimrose hairy vetch jagged chickweed (umbrella spurry) London rocket marshelder minerslettuce Plains coreopsis prostrate pigweed redroot pigweed smooth pigweed spring whitlowgrass	Less than 4
annual polemonium (Jacobs-ladder) common chickweed* common mallow forget-me-not Russian thistle* wild buckwheat	Less than 2
henbit	Preemergence

Table 1. (continued) Weeds Controlled or Suppressed with Amber at the Standard and Enhanced Rate.

STANDARD RATE (0.28 oz./acre = 1 soluble packet/5 acres or 0.35 oz./acre = 1 soluble packet/ 4 acres)

<u>Weeds Suppressed</u>	<u>Maximum Height/Diameter for Optimum Control (inches)</u>
wild garlic	No limit
wild onion	

\*See Weed Resistance to Sulfonylurea Herbicides section of this label.

ENHANCED RATE (0.56 oz./acre = 1 soluble packet/2 1/2 acres)

<u>Additional Weeds Controlled*</u>	<u>Maximum Height/Diameter for Optimum Control (inches)</u>
Annual ryegrass	Preemergence

Additional Weeds Suppressed\*

Canada thistle	Less than 6 inches
cheat	Preemergence
downy brome	Preemergence
Japanese brome	Preemergence

\*In addition to those controlled on suppressed by standard rate.



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Table 2. Number of Amber Soluble Packets to Use to Treat Various Acreages at the Standard or Enhanced Rates.

ACRES TO TREAT	NUMBER OF SOLUBLE PACKETS TO USE		
	STANDARD RATES		ENHANCED RATE
	0.28 oz./A	0.35 oz/A	0.56 oz./A
5	1		2
10	2		4
15	3		6
20	4	5	8
25	5		10
30	6		12
40	8	10	16
50	10		20
60	12	15	24
70	14		28
80	16	20	32
90	18		36
100	20	25	40
120	24	30	48
140	28	35	56
160	32	40	64

Note: One packet treats five acres at the standard rate, or 4 acres at the maximum standard rate. Two packets treat five acres at the enhanced rate.

Tank Mixtures

Note: Amber tank mixtures with two or more of the products listed in the following sections or with products not listed below must be A) tested for physical compatibility and B) applied to a small area of the field and observed for resultant crop safety and weed control before widespread use.

Amber Tank Mixtures with Other Herbicides

TANK MIX AMBER WITH A SUITABLE HERBICIDE FROM THE LIST BELOW TO (1) CONTROL BROADLEAF WEEDS THAT ARE BEYOND THE OPTIMUM TREATMENT SIZE OF 2 INCHES TALL OR ACROSS; (2) CONTROL BROADLEAF OR GRASSY WEEDS NOT NAMED ON THIS LABEL; (3) TO CONTROL SULFONYLUREA-RESISTANT WEEDS. DO NOT APPLY MORE THAN THE RECOMMENDED LABEL RATE OF THE HERBICIDES LISTED BELOW. AMBER MUST BE APPLIED IN TANK MIXTURE FOR USE IN FALLOW CROPLAND.

Amber plus surfactant is known to be physically compatible with

the following herbicides. Refer to the label of the tank mix herbicide used for weeds controlled, directions for use, and restrictions.

Assert® 2.5E	
Banvel 4SC or SGF 2S	Landmaster BW 3.1 lb. ai/gal or
Bronate® 4E	II 2.2 lb. ai/gal
Buctril 2E	Lexone 75DF
Curtail® 2.38 lb. ai/gal	MCPA amine or ester
Curtail M 2.77 lb. ai/gal	Roundup® 4E
diuron (various manufacturers, formulations and product names)	Sencor 75DF
Fallow Master 1.6 lb. ai/gal	2,4-D amine or ester
Gramoxone Extra 2.5 lb. ai/gal	
Hoelon® 3E	

Tank Mixes for Henbit Control

If henbit has emerged, use Amber at the standard use rate in combination with 2,4-D, Banvel, Buctril, or MCPA.

Tank Mix Application with Tilt® Fungicide

For control of foot rot in wheat in the Pacific Northwest, Tilt fungicide may be applied at 0.25 pt./A in combination with Amber at either the standard or enhanced rate. Refer to the Tilt label for specific use directions and restrictions.

Amber Application with Organophosphate Insecticides

Amber may be tank mixed or applied sequentially with registered organophosphate insecticides except malathion. These tank mixtures or sequential applications may cause temporary crop discoloration or crop injury especially if the crop is under environmental stress at the time of treatment.

Delay Amber application for at least 60 days after an in-furrow application of an organophosphate insecticide.

Grazing and Re-seeding following Amber Application

There are no grazing restrictions following Amber application.

Wheat may be re-seeded immediately after application of the standard rate and 2 months after application of the enhanced rate.

Rotational Crop Restrictions

The following crops may be planted after Amber application without a field bioassay providing the required time has elapsed between the last Amber application and the crop planting date.

Wheat

No rotational restrictions. Refer to Grazing and Re-seeding After Amber Application section for re-seeding time intervals.

Barley

1. Ten months ONLY under the following conditions:
  - A. In CO, KS, MT, NE, OK, TX - Where soil pH is 7.9 or less - and where one application of Amber at the standard rate was made.
  - B. Other states - pH 6.5 or lower - one application of either the standard or enhanced rate.
2. Twenty-four months after application of either the standard or enhanced rate in areas not described above.

Grain Sorghum

1. Fourteen months ONLY under the following conditions:
  - A. Soil pH 7.9 or lower and one application of the standard rate in Central TX (excluding Panhandle); Western OK (excluding Panhandle); and West Central and Western KS and NE.
  - B. Soil pH 7.9 or lower and one application of either the standard or enhanced rate in Eastern TX; Central and Eastern OK; and Central and Eastern KS.
2. Twenty-four months after application of either the standard or enhanced rate in areas not described above.

Soybeans

1. Fourteen months ONLY under the following conditions:
  - A. Soil pH 7.5 or lower and a minimum of 25 inches cumulative precipitation from application to planting. One application of the standard rate in Central KS.
  - B. Soil pH 7.5 or less and a minimum of 25 inches cumulative precipitation from application to planting. One application of the standard or the enhanced rate in

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Eastern TX; Central and Eastern OK.

2. Twenty-six months ONLY under the following conditions:
  - A. Soil pH 7.5 or lower and a cumulative precipitation of 46 inches from application to planting. One application of the enhanced rate in Central KS.
  - B. Soil pH 7.9 or lower and cumulative precipitation of 46 inches from application to planting. One application of the standard rate in Central KS; South Central NE.
3. Thirty-six months after application of the standard or enhanced rate in areas not described above. Soybeans may be planted sooner if a successful field bioassay is completed.

#### Other Crops

All crops other than wheat, barley, grain sorghum, and soybeans under the specific conditions described above, may be seeded only after the completion of a successful field bioassay. Refer to Field Bioassay Instructions section.

#### Additional Rotational Precaution

If both Amber and another sulfonylurea herbicide or Assert have been applied during a single growing season, a field bioassay must be performed before planting any crop except wheat in the next growing season. If visible injury, stand reduction or yield reduction occurs in the bioassay, the crop must not be seeded.

#### Field Bioassay Instructions

Using typical tillage, seeding practices, and timings for the particular crop, plant several strips of the desired crop variety across the field which has been previously treated with Amber. Plant the strips perpendicular to the direction Amber was applied. The strips should be located so that all the different field conditions are encountered, including differences in soil texture, pH, and drainage. If the crop does not show visible symptoms of injury, stand reduction, or yield reduction, this field can be seeded with this crop the next growing season after the bioassay. If visible injury, stand reduction, or yield reduction occurs, this crop must not be seeded, and the bioassay must be repeated the next growing season.

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Additional Precautions

- 1) Do not apply more than one application of 0.56 oz./A or two applications of 0.28 oz./A (separated by at least 60 days) per crop. Split applications must be made within the same cropping season.
- 2) Do not apply Amber or other herbicides with the same mode of action within a 12-month period after an Amber application, except as directed above for split applications. If additional weed control is needed, use a herbicide with a different mode of action than Amber.
- 3) For soils with pH values above 7.5, do not apply Amber or any other herbicide with the same mode of action within 15 months after the initial Amber application. If weeds are present after application, they should be controlled with an application of a herbicide with another mode of action and/or tillage.
- 4) Do not apply Amber if rainfall is expected within 24 hours. Rainfall or irrigation, particularly when it occurs soon after application, will promote the movement of Amber residues through the soil profile.
- 5) Do not apply Amber to wheat or barley undersown with legumes or forage grasses, as injury to the undersown crops may occur.
- 6) Do not apply Amber to irrigated land if the tail water will be used on non-target land.
- 7) Do not allow spray to drift to non-target crops, other desirable plants, recreational areas, ornamental plants, or onto land scheduled to be planted with crops other than wheat or barley.
- 8) Do not apply Amber to snow-covered soil or to frozen soil surfaces, since runoff may occur.
- 9) Do not apply Amber where its movement through the soil or on soil particles may place it in contact with non-target plants or their roots.
- 10) Do not apply Amber under conditions when uniform coverage cannot be obtained.
- 11) Do not apply Amber to stressed or dormant weeds, or when environmental conditions which stress weeds or cause weed dormancy are expected within one week after application.
- 12) Do not mix with or apply sequentially with malathion. Tank mixture or sequential application with other registered or-

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ganophosphate insecticides may cause temporary crop discoloration or crop injury. Delay Amber application for at least 60 days after an in-furrow application of an organophosphate insecticide.

- 13) Do not apply Amber through irrigation systems.

### Storage and Disposal

#### Pesticide Storage and Disposal

Store in a dry place. Do not contaminate water, food, or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

#### Container Disposal

Do not re-use outer bag. Dispose of outer bag in a sanitary landfill or by incineration, or by open burning, if allowed by state and local authorities. If burned, keep out of smoke.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire or other emergency, call 1-800-888-8372 day or night.

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Harmful if inhaled or absorbed through skin. Causes eye irritation. Avoid breathing spray mist. Avoid contact with skin, eyes, or clothing.

Statement of Practical Treatment

If in eyes: Flush with plenty of water. Get medical attention if irritation persists.

If on skin: Wash with plenty of soap and water. Get medical attention if irritation persists.

If inhaled: Remove victim to fresh air.

Personal Protective Equipment:

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

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 Statements: 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.

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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 wash waters or rinsate.

Ground Water Advisory

Amber has been identified in ground water sampling from a field research study under vulnerable conditions. There is the possibility that Amber may leach through soil to ground water, especially where soils are coarse and ground water is near the surface. Consult with <sup>the</sup> pesticide state lead <sup>Agency</sup> or local agricultural agencies for information regarding soil permeability and aquifer vulnerability in your area.

Chemigation

Do not apply Amber through irrigation systems.

Amber® trademark of Ciba-Geigy Corporation  
U.S. Patent No. 4,514,212

Accu-Pak™ and Tilt® trademarks of Ciba-Geigy Corporation

Assert® trademark of American Cyanamid Company

Banvel® trademark of Sandoz Chemical Corporation

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Ciba Plant Protection  
Ciba-Geigy Corporation  
Greensboro, North Carolina 27419

CGA 89L7D 063

[GANNONC.LABELA]AMBERWPS - 5/11/93

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CONTAINER LABEL

Amber®

Herbicide

For control of broadleaf weeds in wheat and barley

Active Ingredient:

Triasulfuron: 3-(6-methoxy-4-methyl-1,3,5-triazin-2-yl)-1-[2-(2-chloroethoxy)-phenylsulfonyl]-urea.....	75%
Inert Ingredients:	25%
Total:	100%

8 x 1.4 Ounce Water Soluble Packets  
Total 11.2 Ounces Net Weight

Made in Switzerland

Amber is a water dispersible granule.

See directions for use in attached booklet.

**Agricultural Use Requirements**

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.

EPA Reg. No. 100-701  
EPA Est. 43788-SW-001<sup>C</sup>  
EPA Est. 35977-SW-01<sup>E</sup>  
(Superscript is first letter of lot number on bag)

Amber® trademark of Ciba-Geigy  
U.S. Patent No. 4,514,212

KEEP OUT OF REACH OF CHILDREN

CAUTION

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Harmful if inhaled or absorbed through skin. Causes eye irritation. Avoid breathing spray mist. Avoid contact with skin, eyes, or clothing.

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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 wash waters or rinsate.

Ground Water Advisory

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