100-701 3-16-2001 1/14

Please read instructions on reverse before completing form.

United States Environmental Protection Agency Washington, DC 20460	Registration / Amendment / [x] Other	OPP Identifier Number NOTIFICATION

Application for Pesticide - Section I

1. Company/Product Number	2. EPA Product Manager	3. Proposed Classification
100-701	Jim Tompkins	[x] None [ ] Restricted
4. Company/Product (Name)	PM#	
AccuPak Amber Herbicide	25	

5. Name and Address of Applicant *(Include ZIP Code)*
Syngenta Crop Protection, Inc.
P. O. Box 18300
Greensboro, NC 27419

[ ] *Check if this is a new address*

6. **Expedited Review.** In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to:

EPA Reg. No. _____

Product Name _____

Section - II

[ ] Amendment - Explain below.

[ ] Resubmission in response to Agency letter dated _____

[X] Notification - Explain below.

[ ] Final printed labels in response to Agency letter dated

[ ] "Me Too" Application.

[ ] Other - Explain below.

NOTIFICATION
MAR 16 2001

Explanation: Use additional page(s) if necessary. (For Section I and Section II.).

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46 this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA. The following changes are being made via this notification: 1) Company name and address have been updated to reflect Syngenta Crop Protection, Inc. 2) The Conditions of Sale and Warranty statement has been changed to reflect the name change. Because Syngenta has been formed by the merger of Novartis Crop Protection, Inc. and Zeneca Ag Products, we have chosen to use the former Zeneca warranty statement as the Syngenta warranty statement. No other changes occur in the statement other than the name change. 3) The copyright date reflects Syngenta. 4) Trademark statements have been updated to reflect Syngenta for those products for which Syngenta holds the trademark. 5) The Internet address has been changed to reflect Syngenta. 6) Other places in the label which referring to the company name have been updated.

Section – III

1. **Material This Product Will Be Packaged In:**

Child-Resistant Packaging	Unit Packaging	Water Soluble Packaging	2. Type of Container
[ ] Yes* [ ] No	[ ] Yes [ ] No	[ ] Yes [ ] No	[ ] Metal [ ] Plastic [ ] Glass [ ] Paper [ ] Other (Specify) _____
**Certification must be submitted*	If "Yes" Unit Packaging wgt. / No. per Container	If "Yes" Unit Packaging wgt. / No. per container	

3. Location of Net Contents Information	4. Size(s) Retail Container	5. Location of Label Directions
[ ] Label [ ] Container		[ ] On Label [ ] On Labeling accompanying product

6. Manner in Which Label is Affixed to Product [ ] Lithograph [ ] Paper glued [ ] Stenciled [ ] Other _____

Section – IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)*

Name	Title	Telephone No. (Include Area Code)
Nan S. Padgett	Label Group Leader	336-632-7567

Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

6. Date Application Received (Stamped)

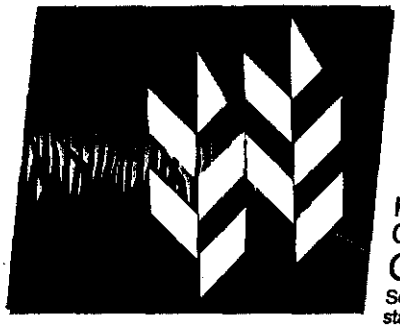
2. Signature	3. Title
Nan S. Padgett	Label Group Leader
4. Typed Name	5. Date
Nan S. Padgett	March 5, 2001

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete.

PULL HERE TO OPEN

Accu-Pak®

Amber®



HERBICIDE

For control of various weeds in wheat, barley, pastures, rangeland, and Conservation Reserve Program acres

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements and directions for use inside booklet.

Active Ingredient:	
Triasulfuron (CAS No. 82097-50-5)	75.0%
Other Ingredients:	25.0%
Total:	100.0%

Amber is a water-dispersible granule.

This outer protective bag contains Amber in 8 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.

EPA Reg. No. 100-701

EPA Est. 70992-FRA-001

Made in France

SCP 701A-L7R 0201

8 x 1.4 OUNCE
Water-Soluble Packets

11.2 OUNCES
TOTAL NET WEIGHT

syngenta

NOTIFICATION

MAR 16 2001

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. 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 manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, Inc. or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and Buyer and User assume the risk of any such use. SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall SYNGENTA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

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 4 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, fallow cropland, pastures, rangeland, and Conservation Reserve Program acres. Refer to Table 1 for a listing of weeds controlled. Amber is a 75% water-dispersible granule which must be thoroughly mixed in water and applied as a spray.

This herbicide controls weeds by inhibiting a biochemical process that produces certain essential amino acids necessary for plant growth. The inhibited enzyme system is acetolactate synthase (ALS). 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 in the following states only: 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 sulfonylurea 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 that is capable of continuous and vigorous tank agitation. Use spray nozzles that provide medium-coarse droplets (250-400 microns VMD). 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 to wheat, barley, and fallow cropland, use a spray volume of 2-5 gals./A. For aerial application to pastures, rangeland, and Conservation Reserve Program acres, apply in a minimum of 2 gals. of spray volume per acre. Apply at a maximum height of 10 ft. 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.

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MIXING PROCEDURES

Water as Carrier

1. Be sure the sprayer is clean.
2. Always use clean water. Fill the tank with approximately 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 at the liquid surface.
4. Add all of the appropriate number of Amber soluble packets and any other product packaged in water-soluble film to the tank (Refer to Table 2).
5. Complete filling of the tank, maintaining sufficient agitation at all times to ensure complete and uniform dispersal of product. 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 must be added at 1-2 qts./100 gals. of spray volume (0.25-0.5% volume per volume) 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 gals./A or less.
8. Always maintain continuous agitation while the spray suspension is in the tank.
9. Mix only sufficient spray suspension to be used the same day; however, Amber will remain active in the spray mixture for at least 36 hours.

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 2.5 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 dispersed, add the mixture to the spray tank. When using a surfactant with liquid fertilizer solutions, add the surfactant to this water mixture *before* adding the mixture to the spray tank.
5. Rinse the 2.5 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 all at once.
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. When using a surfactant with liquid fertilizer solutions, add the surfactant to the water mixture in the cone *before* opening the inductor cone valve.
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. If the surfactant is omitted, 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 those species, a 50% fertilizer solution as a carrier should be used with an appropriate surfactant.

Spray Drift Management

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions. The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses, or to applications using dry formulations.

1. The distance of the outermost nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the air stream and never be pointed downward more than 45 degrees. Where states have more stringent regulations, they should be observed.

The applicator should be familiar with and take into account the information covered in the **Aerial Drift Reduction Advisory Information** section.

Aerial Drift Reduction Advisory Information

Importance of Droplet Size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see **Wind, Temperature and Humidity,** and **Temperature Inversions** sections of this label).

Controlling Droplet Size

- **Volume** – Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** – Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- **Number of Nozzles** – Use the minimum number of nozzles that provide uniform coverage.
- **Nozzle Orientation** – Orienting nozzles so that the spray is released backward, parallel to the airstream will produce larger droplets than other orientations. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- **Nozzle Type** – Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce larger droplets than other nozzle types.

Boom Length

For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

Application Height

Applications should not be made at a height greater than 10 ft. above the top of the largest plants, unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

Swath Adjustment

When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller drops, etc.).

Wind

Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. Note: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect drift.

Temperature and Humidity

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Sensitive Areas

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, nontarget crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

Cleaning Equipment after Application

Because some broadleaf crops are extremely sensitive to low rates of Amber, special attention must be given to cleaning equipment before spraying a crop other than those registered for use and on this label. Mix only as much spray solution as needed. Immediately after spraying, clean equipment thoroughly using this procedure:

1. Flush tank, hoses, boom, and nozzles with clean water.
2. Prepare a cleaning solution of one gal. of household ammonia per 50 gals. of water. Many commercial spray tank cleaners may be used as well. Please read Syngenta brochure "Clean It Up! – A Guide To Cleaning Your Sprayers" (NCP 175-00088-A 3/97) for a partial listing of approved tank cleaners and more information about proper tank cleaning procedures. Do not use chlorine based cleaners such as Clorox®.
3. When available, use a pressure washer to clean the inside of the spray tank with this solution. Take care to wash all parts of the tank, including the inside top surface. Completely fill the sprayer with the cleaning solution to ensure contact of the cleaning solution with all internal surfaces of the tank and plumbing. Start agitation in the sprayer and thoroughly recirculate the cleaning solution for at least 15 minutes. All visible deposits must be removed from the spraying system.
4. Flush hoses, spray lines, and nozzles for at least one minute with the cleaning solution.

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5. Dispose of rinsate from steps 1-3 in an appropriate manner. Spray the cleaning solution on untreated corn or return to a rinsate tank for later use as make-up water for spraying corn.
6. Repeat steps 2-5.
7. Remove nozzles, screens, and strainers and clean separately in the cleaning solution after completing the above procedures.
8. Rinse the complete spraying system with clean water.

Note: If the tank is equipped with the proper number of correctly mounted 360° tank washing nozzles which are attached to a dedicated rinsing system, less cleaning solution than a full tank may be used. Use sufficient cleaning solution to thoroughly rinse all surfaces. Start the sprayer agitation and recirculate the cleaning solution for at least 15 minutes. Flush the spray boom with the cleaning solution. Repeat the rinsing procedure as outlined in this Note 1-2 times, including flushing the spray boom with the cleaning solution. After the last flush of the system, remove nozzles, screens, and strainers and clean separately in fresh cleaning solution.

WEED RESISTANCE TO ALS-INHIBITOR 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 such as Amber.

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

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

The occurrence of ALS-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 Syngenta representative. Amber applied to fallow cropland must be applied as a tank mixture, or be followed by a herbicide with a different mode of action within 12 months.

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

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 12-month period after an Amber application, except for split applications as described below. If additional weed control is needed, use a herbicide with a different mode of action from Amber.

POSTEMERGENCE AMBER APPLICATION TO WINTER OR SPRING WHEAT, WINTER OR SPRING BARLEY, OR POSTEMERGENCE TO WEEDS IN FALLOW CROPLAND (INCLUDING POST-HARVEST CEREAL STUBBLE)

Apply Amber at a 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 is at ANY STAGE UP TO PRE-BOOT or barley is in the 2-LEAF TO PRE-BOOT STAGE. Optimal control can be obtained for most weed species when the weeds are 2 inches or less in height and/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 at or above the maximum height, use the 0.35 or 0.47 oz./A rate of Amber. These rates 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 seedlings 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.

Precautions: 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.

Do not plant durum wheat less than 8 months after an Amber application.

PREPLANT, PREPLANT SHALLOW-INCORPORATED, OR PREEMERGENCE AMBER APPLICATION TO WINTER OR SPRING WHEAT (EXCEPT DURUM WHEAT)

Preplant, preplant shallow-incorporated (top 1 inch of soil), or preemergence Amber application at a 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) is received before weed emergence. Preplant or preplant shallow-incorporated applications should be used only if a disk drill is to be used for planting; not hoe/sweep drills.

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Apply Amber preplant, preplant shallow-incorporated, or preemergence to wheat at the enhanced rate (0.56 oz./A) for the suppression 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 preplant, preplant shallow-incorporated, or 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. Amber may be tank mixed with Metribuzin or Maverick™ for improved control of downy brome and cheat (see **Tank Mixtures** section).

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 preplant, preplant shallow-incorporated, preemergence, or postemergence at the low standard rate (0.28 oz./A), and follow with an additional postemergence application at the low 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 Aim; 2,4-D; MCPA; Starane; Curtail; Banvel; or Buctril) to minimize selection of resistant weed biotypes. The second application must be applied no later than pre-boot, or any earlier growth stage specified on the tank mix partner label. 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 that 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 per acre when making split applications.

Table 1: **Weeds Controlled or Suppressed with Amber** at the Standard and Enhanced Rates

STANDARD RATES (**0.28 oz./acre = 1 soluble packet/5 acres,**
0.35 oz./acre = 1 soluble packet/4 acres, or
0.47 oz./acre = 1 soluble packet/3 acres)

Weeds Controlled	Maximum Height/Diameter for Optimum Control (inches)
Blue mustard (purple mustard), field pennycress (fanweed), flixweed, shepherd's-purse, tall hedge mustard, tansymustard, tumble mustard (Jim Hill mustard), wild mustard	No size limit, but control is recommended prior to weed competition with the crop resulting in yield reductions
Bur buttercup, common ragweed, common sunflower, creeping buttercup, horseweed (marestail), Indian mustard, kochia*, lanceleaf ragweed, prickly lettuce (China lettuce*), puncturevine, tall buttercup, Virginia pepperweed, wild radish	Less than 6
Annual fleabane, bushy wallflower, coast fiddleneck (tarweed), common cocklebur, common purslane, common broomweed, common yarrow, corn gromwell, cutleaf eveningprimrose, giant ragweed, hairy vetch, jagged chickweed (umbrella spurry), London rocket, marshelder, miner's lettuce, Plains coreopsis, prostrate pigweed, redroot pigweed, rough fleabane, smooth pigweed, spring whitlowgrass, woolly croton	Less than 4
Annual polemonium (Jacobs-ladder), common chickweed*, common mallow, forget-me-not, Russian thistle*, wild buckwheat (treat after true leaves have emerged; not cotyledon stage)	Less than 2
Henbit	Preplant, preplant shallow-incorporated, or preemergence
Weeds Suppressed*** Wild garlic, wild onion	No limit
Western ragweed, annual morningglories	Less than 5 inches
Henbit	Less than 2 inches
ENHANCED RATE (0.56 oz./acre = 1 soluble packet/2.5 acres)	
Additional Weeds Suppressed** Canada thistle, curly dock, goldenrod, greenflower pepperweed, houndstongue, musk thistle	Less than 6 inches
Annual ryegrass (Italian ryegrass), cheat, downy brome, Japanese brome, Persian darnel	Preplant, preplant shallow-incorporated, or preemergence

*See **Weed Resistance to ALS-Inhibitor Herbicides** section of this label.

**In addition to those controlled or suppressed by standard rates.

***Indicates "Partial Control" which means significant activity but not always at a level generally considered acceptable for commercial weed control.

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

	Number of Soluble Packets to Use			
	Standard Rates			Enhanced Rate
Acres to Treat	0.28 oz./A	0.35 oz./A	0.47 oz./A	0.56 oz./A
3	—	—	1	—
4	—	1	—	—
5	1	—	—	2
10	2	—	—	4
15	3	—	5	6
20	4	5	—	8
25	5	—	—	10
30	6	—	10	12
40	8	10	—	16
50	10	—	—	20
60	12	15	20	24
70	14	—	—	28
80	16	20	—	32
90	18	—	30	36
100	20	25	—	40
120	24	30	40	48
140	28	35	—	56
160	32	40	—	64

Note: One packet treats 3-5 acres at the standard rates (0.28 oz./A-0.47 oz./A). Two packets treat 5 acres at the enhanced rate (0.56 oz./A).

POSTEMERGENCE AMBER APPLICATION TO PASTURES, RANGELAND, AND CONSERVATION RESERVE PROGRAM (CRP) ACRES

Amber can be applied postemergence to emerged and actively growing weeds in pastures, rangeland, and CRP acres at the standard or enhanced rates (see Table 1) for weed control in the following established grasses:

Common Name	Scientific Name
Bermudagrass	*Cynodon dactylon*
Bluestem, Big	*Andropogon gerardi*
Bluestem, Little	*Andropogon scoparius*
Bluestem, Old World	*Bothriochloa caucasica*
Brome, Smooth	*Bromus inermis*
Buffalograss	*Buchloe dactyloides*
Fescue, Sheep	*Festuca ovina*
Grama, Blue	*Bouteloua gracilis*
Grama, Side-oats	*Bouteloua curtipendula*
Redtop	*Agrostis alba*
Timothy	*Phleum pratense*
Wheatgrass, Bluebunch	*Agropyron spicatum*
Wheatgrass, Crested	*Agropyron cristatum*
Wheatgrass, Intermediate	*Agropyron intermedium*
Wheatgrass, Pubescent	*Agropyron tricophorum*

For new seedings of the above grasses, do not apply Amber until at least 60 days after emergence of the desirable grasses or 30 days after sprigging of bermudagrass. Even established stands of orchardgrass, red fescue, and ryegrasses will likely be injured by Amber. If desirable broadleaves, such as clovers and alfalfa, are present, they will likely be severely injured by Amber applications.

Weed Control

For information on weeds controlled, size limitations, and rate of Amber to use, refer to Table 1. Many of the weeds in that table commonly occur in rangeland, pastures, and CRP acres. In addition to the weeds listed in Table 1, Amber at the standard or enhanced rates will provide first year control and subsequent year suppression of: hoary cress (whitetop) and poison hemlock.

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For all postemergence applications, Amber should be applied to actively growing weeds and a nonionic surfactant should be included in the spray mixture as described in the Mixing Procedures section of this label. To obtain optimum control and to manage weed resistance, Amber should be applied in tank mixture with an appropriate registered herbicide having another mode of action (examples are 2,4-D, Banvel, Clarity®, Curtail, Crossbow®, Grazon®, Stinger®, Tordon™, Weedmaster®, and Weedone® LV6). The tank mix partner should be used at a recommended tank mix rate; and all directions, restrictions, precautions, etc. should be followed on both labels.

Biotypes of the weeds marked with an (*) in Table 1 have been selected which are resistant to certain or all sulfonylureas. Those biotypes will likely not be controlled with Amber. Follow the precautions and instructions in the **Weed Resistance to ALS-Inhibitor Herbicides** section of this label.

Amber at the standard rate (0.28 oz./A) will provide partial control of western ragweed *(Ambrosia psilostachya)* if applied to plants less than 5 inches tall. A second application of the standard or enhanced rate (0.28 or 0.56 oz./A) can be made no later than 60 days after the initial application for additional control of late germinating western ragweed and for improved residual control.

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 that reduce growth. Competition of the crop with the weeds helps in providing control.

Refer to Table 2 for the number of water-soluble packets to use to treat various acreages. The maximum total amount of Amber that can be applied in a calendar year is 0.84 oz./A.

Downy brome and cheat control: Partial control of downy brome and cheat can be obtained by applying Amber at 0.56 oz./A prior to emergence of those grasses. Follow directions for control of downy brome in wheat as described in the **Preemergence Amber Application to Winter or Spring Wheat** section of this label.

Poisonous plants: The following weeds controlled by Amber can be poisonous to livestock in pastures and rangeland: bur buttercup, coast fiddleneck, cocklebur, creeping buttercup, goldenrod, and tall buttercup.

Note: To avoid possible illegal residues, do not cut for hay for 30 days following application. Grazing may occur immediately following application.

TANK MIXTURES

Note: The many formulations of tank mix partner products have greatly varying mixing characteristics. Before Amber is used in tank mixture with other products, the mixture should first be tested in small containers for physical compatibility. When conducting a compatibility test, follow the same procedures given for large quantities in the **Mixing Procedures** section.

Amber Tank Mixtures with Other Herbicides

Tank mix a standard rate of Amber with a suitable herbicide from the list below to: (1) control broadleaf weeds that are beyond the optimum treatment size; or (2) control broadleaf or grass weeds not named on this label; or (3) control ALS-resistant weeds. Amber must be applied in tank mixture for use in fallow cropland.

Refer to the label of the tank mix partner for appropriate crops, additional weeds controlled, and directions for use; and observe all precautions and restrictions on the labels of products used in tank mixtures.

Recommended tank mix partners

Aim	Diuron	Roundup®, Roundup Ultra®
Ally®*	Fallow Master™	Sencor
Assert®*	Gramoxone® Extra	Starane
Banvel SC or SGF	Hoelon®	Starane + Saber®
Bronate®	Landmaster® BW	Starane + Salvo®
Buctril	Lexone	Starane + Sword®
Clarity	Maverick*	Stinger
Curtail	MCPA amine or ester	2,4-D amine or ester
Curtail M	Puma™	Touchdown®
Discover™		

*Products with the same mode of action as Amber (ALS-inhibitors). See the **Weed Resistance to ALS-Inhibitor Herbicides** section for information on situations requiring mixture or sequential application with products of a different mode of action.

Tank Mixes for Henbit Control

If henbit has emerged, apply Amber early postemergence at a standard use rate in combination with Ally; Banvel + 2,4-D; Buctril; MCPA; Lexone; or Sencor.

Tank Mix with Metribuzin (Lexone or Sencor) or Maverick for Suppression of Downy Brome and Cheat

For suppression partial control of downy brome and cheat in wheat, apply a standard rate of Amber plus 0.062-0.25 lb. a.i./A (2-8 oz./A of 4L or 0.083-0.33 lb./A of 75DF) of metribuzin or 2/3 oz./A of Maverick early postemergence. Refer to the Lexone, Sencor, or Maverick label for rates, timings, and restrictions, such as variety limitations.

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Tank Mix with Fallow Master for Conservation Tillage

For burndown plus residual control of weeds in Table 1, apply a standard rate of Amber plus labeled rates of Fallow Master in fallow cropland or at least 15 days prior to seeding winter or spring wheat in no-tillage or reduced-tillage systems. To obtain good soil activity, enough rainfall is needed to wet the soil 2-3 inches deep before weed emergence. If weeds emerge, control them with a herbicide(s) having a different mode of action than Amber; for example, 2,4-D + Banvel.

Tank Mix Application with Tilt® Fungicide

For control of foot rot in wheat in the Pacific Northwest, Tilt fungicide may be applied at 4 fl. oz. A in combination with Amber at either a 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 TO WHEAT, BARLEY, OR FALLOW CROPLAND

There are no grazing restrictions following Amber application.

Wheat (except durum wheat) may be re-seeded immediately after application of either a standard rate or the enhanced rate.

ROTATIONAL CROP RESTRICTIONS

The following crops may be planted after an Amber application without a field bioassay, provided the following conditions are met and the required time has elapsed between the last Amber application and the crop planting date. When applying Amber in a tank mix, refer to the rotational restrictions on this label and the label of the tank mix partner and observe the more restrictive interval.

Wheat

Do not plant Durum wheat less than 8 months after an Amber application. Other spring and winter wheat varieties may be replanted at any time.

Barley, Rye, Oats, or Bermudagrass

1. Six months ONLY under the following conditions:
   A. In CO, KS, MT, NE, OK, SD, TX, Western ND – where soil pH is 7.9 or less – and where one application of Amber at a standard rate was made.
   B. In all states – where soil pH is 6.9 or lower – one application of either a standard or enhanced rate.
2. Eighteen months after application of either a standard or enhanced rate in areas not described above.

Proso Millet

Four months after application of either a standard or enhanced rate.

Field Corn

1. Four months ONLY if an IR corn hybrid is planted; either a standard or enhanced rate.
2. Fourteen months ONLY after application of either a standard or enhanced rate in KS, NE, and CO east of I-25, where soil pH is 6.9 or lower, if a "normal" (not IR) hybrid is planted.
3. Twenty-two months after application of either a standard or enhanced rate on soil with pH 7.9 or lower, if a "normal" (not IR) hybrid is planted.
4. Thirty-six months after application in areas not described above. Corn may be planted sooner if a successful field bioassay is completed.

Grain Sorghum

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

Soybeans

1. Eleven months ONLY if STS® soybeans are planted; either a standard or enhanced rate.
2. 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 a 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 a standard or the enhanced rate in Eastern TX; Central and Eastern OK.
3. Twenty-six months ONLY under the following conditions:
   A. Soil pH 7.5 or lower and 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 a standard rate in Central KS; South Central NE.
4. Thirty-six months after application of a standard or enhanced rate in areas not described above. Soybeans may be planted sooner if a successful field bioassay is completed.

Sugar Beets, Sunflowers, or Onions

These crops are extremely sensitive to low levels of Amber in the soil and should *not* be planted less than 24 months after any application of Amber *and* only after a successful field bioassay is completed.

Other Crops

All crops other than wheat, barley, rye, oats, proso millet, bermudagrass, field corn, grain sorghum, and soybeans under the specific conditions described above, may be seeded only after the completion of a successful field bioassay and no sooner than 4 months after application. Refer to **Field Bioassay Instructions** section.

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, and/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.

ADDITIONAL PRECAUTIONS

1. Do not use Amber in fields where the combination of all three of these criteria occur:
   - Historic average annual rainfall (or the combination of historic annual rainfall plus planned irrigation of the crop) exceeds 35 inches per year, and
   - The ground water table is 30 ft. or less below the soil surface, and
   - The soil is classified as a coarse soil (sand or loamy sand soil texture in the surface layer).
2. When applying to wheat, barley, or fallow cropland, 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.
3. When applying to pastures, rangeland, or CRP acres, do not apply more than a total of 0.84 oz./A per year as follows: one application of 0.28 oz./A may be applied postemergence, followed by a second application not more than 60 days later at up to 0.56 oz./A.
4. 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 on this label for split applications and tank mixes. If additional weed control is needed, use a herbicide with a different mode of action than Amber.
5. Do not apply Amber within 4 hours of an expected rainfall/irrigation event. Rainfall or irrigation soon after application may reduce foliar uptake by weeds, thereby reducing weed control.
6. Do not apply Amber to wheat or barley undersown with legumes or forage grasses, as injury to the undersown crops may occur.
7. Do not apply Amber to irrigated land if the tail water will be used on nontarget land.
8. Do not allow spray to drift to nontarget crops, other desirable plants, recreational areas, ornamental plants, or onto land scheduled to be planted with crops other than wheat or barley.
9. Do not apply Amber to snow-covered soil or to frozen soil surfaces, since runoff may occur.
10. Do not apply Amber where its movement through the soil or on soil particles may place it in contact with nontarget plants or their roots.
11. Do not apply Amber under conditions when uniform coverage cannot be obtained.
12. Do not apply Amber to stressed or dormant weeds, or when environmental conditions that stress weeds or cause weed dormancy are expected within one week after application.

13. Do not mix with or apply sequentially with malathion. Tank mixture or sequential application with other registered organophosphate 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.
14. Do not apply Amber through irrigation systems.

CATASTROPHIC CROP LOSS

Where a catastrophic crop loss has occurred after an Amber application due to a natural disaster (such as late killing frost, hail, flooding, insect or disease damage), wheat (except durum) may be replanted immediately and IR corn hybrids after 4 months. Additionally, after 4 months barley, durum wheat, oats, rye, or STS soybeans may be planted with the expectation that some level of discoloration, stunting, or other crop injury will occur. Any damage and yield loss that occurs must be accepted by the grower. Growers not willing to accept this potential injury and yield loss are required to follow standard rotational guidelines.

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.

FIRST AID	
If in eyes	• Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If on skin or clothing	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	• Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-888-8372 for emergency medical treatment information.

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 Control 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.

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 water 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 the pesticide state lead agency or local agricultural agencies for information regarding soil permeability and aquifer vulnerability in your area.

Chemigation

Do not apply Amber through irrigation systems.

Made in France

Syngenta Crop Protection, Inc.
Greensboro, North Carolina 27409
www.syngenta-us.com
SCP 701A-L7R 0201

Accu-Pak®

Amber®

HERBICIDE

For control of various weeds in wheat, barley, pastures, rangeland, and Conservation Reserve Program acres

Active Ingredient:

Triasulfuron (CAS No. 82097-50-5)	75.0%
Other Ingredients:	25.0%
Total:	100.0%

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. 70992-FRA-001

Accu-Pak® and Amber® trademarks of Syngenta

U.S. Patent No. 4,514 212

Syngenta Crop Protection, Inc.
Greensboro, North Carolina 27409
www.syngenta-us.com

SCP 701A-L7R 0201

8x1.4 OUNCE
Water-Soluble Packets

11.2 OUNCES
TOTAL NET WEIGHT

KEEP OUT OF REACH OF CHILDREN.

CAUTION

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