

	United States	<input type="checkbox"/>	Registration	OPP Identifier Number
	Environmental Protection Agency	<input type="checkbox"/>	Amendment	Notification
	Washington, DC 20460	<input checked="" type="checkbox"/>	Other	

Application for Pesticide - Section I

1. Company/Product Number 100-1130	2. EPA Product Manager Ms. Jim Tompkins	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Achieve SC Herbicide	PM# 25	
5. Name and Address of Applicant (Include ZIP Code) Syngenta Crop Protection, Inc. P. O. Box 18300 Greensboro, NC 27419 <input type="checkbox"/> 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

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____	NOTIFICATION NOV 18 2002
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.	
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.	

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

Add an alternate brand name for Achieve SC Herbicide. The alternate brand name for Achieve SC Herbicide is: Achieve Liquid. A copy of the label with the alternate brand name highlighted is attached.

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.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal	<input checked="" type="checkbox"/> Plastic
*Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per Container	<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
		If "Yes" Unit Packaging wgt.	No. per container	<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 2.16 gallons		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product				<input type="checkbox"/> Lithograph <input checked="" type="checkbox"/> Other <u>Pressure Sensitive</u>	
				<input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name Pat Dinnen		Title Regulatory Specialist		Telephone No (Include Area Code) 336-632-2494	
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 <i>Pat Dinnen</i>		3. Title Label Specialist, Regulatory Affairs			
4. Typed Name Pat Dinnen		5. Date November 8, 2002			

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**Booklet
(2.16 gal.)**

Achieve® Liquid Herbicide

Postemergence Herbicide for Control of Certain Annual Grassy Weeds in Wheat and Barley

Active Ingredient:

Tralkoxydim

2-Cyclohexen-1-one, 2-[1-(ethoxyimino)propyl]-3-hydroxy-

5-(2,4,6-trimethylphenyl)-(9CI) 35.0%

Other Ingredients: 65.0%

Total: 100.0%

Contains 3.33 lbs. active ingredient per gallon or 400 grams a.i./L.

**NOTIFICATION
NOV 18 2002**

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements and directions for use inside booklet.

EPA Reg No. 100-1130

EPA Est 100-NE-001

Product of United Kingdom

Formulated in the USA

SCP 1130A-

2.16 gallons

U.S. Standard Measure

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If in eyes	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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.
Have the product container or label with you when calling a poison control center or doctor or going for treatment.	
HOTLINE NUMBER For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident) Call 1-800-888-8372	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing.

Personal Protective Equipment

Applicators and other handlers must wear:

- Chemical-resistant gloves – Category A (e.g., barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride (PVC), or viton)
- Long-sleeved shirt and long pants
- 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.

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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.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash water or rinsate.

Spray Drift

Do not make aerial applications under conditions involving possible drift to nontarget plants. Refer to the local state laws, regulations, and guidelines for proper application to avoid off-target movement.

Physical and Chemical Hazards

Do not use or store near heat or open flame.

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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 this 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.

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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. Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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:

- Chemical-resistant gloves – Category A (e.g., barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride (PVC), or viton)
- Long-sleeved shirt and long pants
- Shoes plus socks

STORAGE AND DISPOSAL

Prohibitions

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Keep away from heat and flame.

Storage

Keep container tightly closed when not in use. Do not store near seed, fertilizers, or foodstuffs. Can be stored at temperatures as low as minus 50°F.

Pesticide Disposal

Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal

Triple rinse (or equivalent); then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

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GENERAL INFORMATION

Achieve Liquid Herbicide is a systemic, postemergence herbicide for the selective control of wild oats, volunteer tame oats, green foxtail, yellow foxtail, annual ryegrass (Italian), and Persian darnel in all wheat and barley varieties. Perennial grasses such as quackgrass will not be controlled. Although susceptible grassy weeds treated with Achieve Liquid cease growth soon after application, complete die-back of the weeds could take up to 4 weeks.

Achieve Liquid does not control broadleaf weeds; however, some broadleaf weed herbicides can be tank mixed with Achieve Liquid to provide broad spectrum weed control in cereals (see appropriate section of label for this information).

Achieve Liquid is not affected by rain falling one hour or more after application.

INFORMATION ON WEED RESISTANCE

Naturally occurring biotypes of certain grass species with resistance to this herbicide and related products (same mode of action) are known to exist. Selection of resistant biotypes through repeated use of these herbicides may result in control failures. If poor performance cannot be attributed to adverse weather conditions or improper application methods, a resistant biotype may be present. In such a case, additional treatments with this herbicide or related products is not recommended. Consult your local Syngenta Crop Protection representative or agricultural advisor for assistance.

Do not apply Achieve Liquid on spring wheat in Minnesota, East of Highway 281 in North Dakota, or in South Dakota. In addition, do not apply Achieve Liquid in the following counties in North Dakota: Dickey, LaMoure, Stutsman, Foster, Eddy, Ramsey, and Towner. Use of Achieve Liquid in these areas may result in crop injury to spring wheat. Syngenta Crop Protection, Inc., will not be liable for injury to spring wheat if Achieve Liquid is used in these areas.

GENERAL USE PRECAUTIONS

Achieve Liquid is a postemergence herbicide for use in wheat and barley. Do not use in tame oat crops. Avoid drift onto tame oat and corn crops. Tillered cereal crops may incur injury if applications are made within 48 hours of freezing temperatures. Nontillering cereal crops which are exposed to temperatures of less than 40°F up to 48 hours either before or after application, may incur injury. Unacceptable crop injury could also occur when Achieve Liquid is applied to crops under stress due to high temperatures, drought, excess soil moisture, foliar diseases, insect damage, or lack of fertility.

When weeds are stressed due to drought, heat, lack of fertility, flooding, or prolonged cool temperatures, control can be reduced or delayed since the grasses are not actively growing. Grass escapes or re-tillering may occur when application is made under prolonged stress conditions. Optimum weed control will be obtained if application of Achieve Liquid is delayed until the stress conditions have ended and weeds are once again actively growing.

Do not apply Achieve Liquid to crops or weeds that have heavy dew cover.

Do not tank mix with amine formulations of labeled herbicides or any other herbicide, insecticide, fungicide, fertilizer solution, or adjuvant not recommended on the label as poor grass control and/or unacceptable crop injury may result.

Crop injury may occur with registered tank mixes under extreme weather conditions or when the crop is suffering from stress due to inadequate or abnormally high moisture levels, extreme temperature, or from spray overlaps.

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Weed control can be reduced when Achieve Liquid is applied to fields which received a soil residual sulfonylurea herbicide treatment the previous year.

Unacceptable weed control may be obtained when Achieve Liquid is applied with spray equipment containing residual spray solution or other spray residues from a previous sulfonylurea herbicide application. Ensure such sprayers are thoroughly cleaned before adding Achieve Liquid to the spray tank.

Do not apply this product through any type of irrigation system.

Flood or sprinkler irrigation can cause subsequent germination of wild oats and other grassy weeds. For optimum weed control in irrigated crops, apply Achieve Liquid after irrigation when new weed germination is complete.

ROTATIONAL CROPS

Rotational crops of cereal grains and leafy crop groups may be planted 30 days after application of Achieve Liquid. All other rotational crops may be planted 106 days after application of Achieve Liquid.

APPLICATION PROCEDURES

WEEDS CONTROLLED AND USE RATES

The maximum seasonal application rate for Achieve Liquid is 9.6 ozs./A. For control of wild oats, volunteer tame oats, green foxtail, yellow foxtail, annual ryegrass (Italian) and Persian dandelion, apply Achieve Liquid at 6.9-9.2 ozs./A (0.18-0.24 lb. a.i./A). Use the high rate when soil is dry, weeds are large, weed population is high, or crop canopy is dense.

Note: In Minnesota, Montana, North Dakota, and South Dakota, apply Achieve Liquid only at 6.9 ozs./A (0.18 lb. a.i./A). Do not apply Achieve Liquid on spring wheat in Minnesota, East of Highway 281 in North Dakota, or in South Dakota. In addition, **do not** apply Achieve Liquid in the following counties in North Dakota: Dickey, LaMoure, Stutsman, Foster, Eddy, Ramsey, and Towner. Use of Achieve Liquid in these areas may result in crop injury to spring wheat. Syngenta Crop Protection, Inc. will not be liable for injury to spring wheat if Achieve Liquid is used in these areas.

Apply by ground sprayers in a spray volume of 10-15 gals. of water per acre. When grass foliage is dense, use the higher end of water volume range. Using a spray volume greater than 15 gals. of water per acre can result in reduced weed control. For aerial application, 3-5 gals. of water per acre should be used. Using a spray volume greater than 5 gals. of water per acre can result in reduced weed control.

Apply Achieve Liquid to actively growing grasses for best results. Grasses emerging after application of Achieve Liquid will not be controlled. Achieve Liquid will not control broadleaf weeds. See **Tank Mixing Instructions** section of label for information on approved tank mixes for broad spectrum weed control.

Apply Achieve Liquid to wild oats or volunteer tame oats at the 1-6 leaf stage of growth (total leaves including tillers). Wild oats will be controlled up to the emergence of the third tiller.

For control of green foxtail and yellow foxtail, apply Achieve Liquid at 1-5 leaf stage of growth (total leaves including tillers).

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For control of annual ryegrass (Italian) and Persian darnel, apply Achieve Liquid at the 1-4 leaf stage of growth (total leaves including tillers). Best control of ryegrass is obtained when application is made in the fall, prior to the dormancy period.

SPRAY ADJUVANTS

Always add Supercharge® adjuvant to the spray solution at a rate of 4 pts./100 gals. of water (0.5% v/v). Use of incorrect Supercharge rates or alternative adjuvants may result in unacceptable weed control or crop injury. In addition, always add ammonium sulfate to the spray solution at a rate of 7-15 lbs./100 gals. when spray water contains more than 400 ppm bicarbonate ions. Only use granular or liquid ammonium sulfate formulations which do not contain additional wetters or surfactants. Water from deep wells is more likely to require addition of ammonium sulfate compared to surface water sources. Addition of ammonium sulfate can also provide enhanced weed control under low moisture or high temperature stress conditions as well as when tank mixing with broadleaf weed herbicides.

SPRAY EQUIPMENT

SPRAYING INSTRUCTIONS

Achieve Liquid may be applied by either ground sprayers or by aerial application.

For **ground** sprayers, apply in a spray volume of 10-15 gals./A. Use the higher end of water volume range when grass foliage is dense. Apply at a pressure of 30-40 psi to ensure proper dispersion, spraying characteristics, and performance of Achieve Liquid.

Flat fan nozzles of 80° or 110° are recommended for optimum coverage. Do not use floodjet nozzles or controlled droplet application equipment. Ensure that all in-line strainer and nozzle screens in the sprayer are 50 mesh or coarser. Screens of 80 mesh size or finer should not be used.

Always ensure that agitation is maintained until spraying is completed, even if stopped for brief periods of time. If the agitation is stopped for more than 5 minutes, resuspend the spray solution by running on full agitation prior to spraying. Achieve Liquid must be sprayed within the same day of mixing.

For **aerial** applications, 3-5 gals. water per acre should be applied. When grass foliage is dense, use the higher end of water volume range. Use sufficient spray water volume to ensure complete dispersion of Achieve Liquid in the spray tank when mixing and during application. When making aerial applications, care should be taken to avoid drift to crops other than wheat or barley. Avoid drift to nontarget areas. Do not spray when conditions are favorable for drift or when wind velocity exceeds 10 mph.

When spraying is completed and prior to using other products, ensure the spray system is thoroughly rinsed with clean water to remove any remaining Achieve Liquid residues. Using a pressure washer and the addition of a detergent or a nonionic surfactant to the rinse water will enhance removal of residues.

SPRAY DRIFT

Avoid spray drift. Do not apply when weather conditions may cause drift. Do not allow this product to drift onto nontarget areas. Drift may result in illegal residues or injury to adjacent crops and vegetation. To avoid spray drift, DO NOT apply aerially when wind speed is greater than 10 mph or during periods of temperature inversions. Use of larger droplet size will also reduce spray drift.

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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 is responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target 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.

The distance of the outer most nozzles on the boom must not exceed $\frac{3}{4}$ the length of the wingspan or rotor.

Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45°.

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**.

AERIAL DRIFT REDUCTION ADVISORY

(This section is advisory in nature and does not supersede the mandatory label requirements.)

Information on 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**).

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** - Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. 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 parallel to the airstream produces larger droplets than other orientations and is the recommended practice. 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 the largest droplets and the lowest drift.

Boom Length

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

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Application Height

Applications should not be made at a height greater than 10 feet above the top of the target 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 cross wind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator should 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 spray 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).

Where states have more stringent regulations, they should be observed.

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MIXING PROCEDURES

MIXING INSTRUCTIONS

Follow the mixing instructions below for adding Achieve Liquid to the spray tank.

1. Only use sprayers in good running condition with high agitation. Ensure the sprayer is cleaned according to instructions on label of the product used prior to Achieve Liquid. Use only clean water for the spray solution. Ensure that all in-line strainer and nozzle screens in the sprayer are 50 mesh or coarser. Screens of 80 mesh size or finer should not be used.
2. Begin to fill sprayer tank or premix tank with clean water, and engage agitator. Agitation must be continued throughout the entire mixing and spraying procedure.
3. When the sprayer or premix tank is three-quarters full of water, add ammonium sulfate and agitate until completely dissolved. Then add Achieve Liquid slowly. Remove straining screen from filler opening of spray tank before adding Achieve Liquid. (**Note:** Achieve Liquid must be added directly into the sprayer through the tank opening and not through injector or hopper systems, for sprayers so equipped.) For shallow spray tanks where water depth is 24 inches or less, add Achieve Liquid towards agitator unit and away from outlet in the bottom of the tank to enhance dispersion.
4. Wait at least one minute after the last of the Achieve Liquid has been added to the tank to allow for complete dispersion. A longer agitation period may be required to disperse Achieve Liquid when using cold water from sources such as deep drilled wells.
5. If tank mixing, add the recommended product(s) next.
6. Lastly, add adjuvant and then continue to fill tank to desired level with water.

CROP USE DIRECTIONS

CROPS

Achieve Liquid can be used in all varieties of wheat and all 2- or 6-row varieties of barley (malting and general-purpose varieties including semidwarf and hulless). Achieve Liquid may be applied to wheat or barley up to the flag leaf stage.

HARVESTING INTERVALS

Minimum interval to harvest is 60 days after treatment with Achieve Liquid.

Immature crops (forage) may be grazed or cut for hay 30 days after treatment.

Mature straw and grain may be fed to livestock 45 days after treatment.

TANK MIXING INSTRUCTIONS

Follow the recommendations on the tank mix products for all use directions and restrictions.

For broad spectrum control of both annual grasses and many broadleaf weeds, Achieve Liquid can be tank mixed with MCPA ester, bromoxynil/MCPA esters (such as Bronate®), bromoxynil ester (such as Buctril®), Curtail® M, and Stinger®. Do not exceed 1 pt./A for Bronate and 2 pts./A for Curtail M when tank mixed with Achieve Liquid in Minnesota, Montana, North Dakota and South Dakota.

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In Minnesota, Montana, North Dakota, and South Dakota, Achieve Liquid may also be tank mixed with 2,4-D ester when ammonium sulfate is also used. When tank mixing Achieve Liquid with 2,4-D ester or bromoxynil ester, green and yellow foxtail control may be reduced with adverse growing conditions. Do not exceed 8 oz. a.i./A of MCPA ester or 2,4-D ester as reduced weed control may occur.

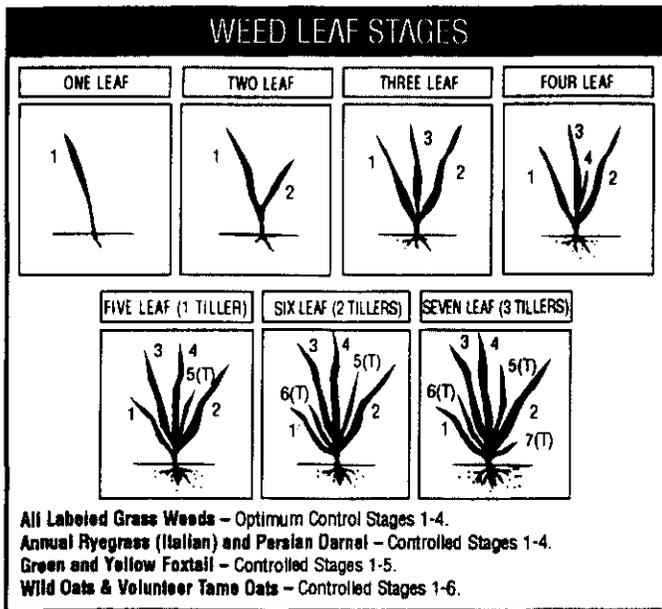
Note: Achieve Liquid tank mixed with 2,4-D ester, MCPA ester or Curtail M must include ammonium sulfate. Do not allow Achieve Liquid tank mixed with 2,4-D ester, MCPA ester, or Curtail M to remain in the spray tank overnight.

Achieve Liquid may be tank mixed with Starane®, either with or without 2,4-D ester* or MCPA ester. A tank mix of Achieve Liquid and Harmony® GT is recommended **only** for wild oats control. **Note:** Green foxtail, volunteer tame oats, yellow foxtail, Persian darnel, and other grass weeds will not be controlled by this tank mix, and the wild oats control may be reduced. To minimize the reduction in wild oats control, use the higher rate of Achieve Liquid when using rates of Harmony GT greater than 0.3 oz./A. Do not exceed 0.5 oz./A rate of Harmony GT with this tank mix. For greater spectrum of broadleaf weed control, this tank mix may also include 2,4-D ester*, MCPA ester, bromoxynil or bromoxynil/MCPA.

*Addition of 2,4-D ester to Achieve Liquid with either the Starane or Harmony GT tank mixes is recommended only in Minnesota, Montana, North Dakota, and South Dakota.

Read and strictly adhere to the use directions and precautions on the label of the product tank mixed with Achieve Liquid.

Herbicides not approved on this label for tank mixing with Achieve Liquid may be applied separately in sequence. For best results, always apply Achieve Liquid first and allow at least 5 days after the application of Achieve Liquid before applying other herbicides. If other herbicides have been applied, wait at least 15 days before Achieve Liquid application. Reduced grass control should be expected if Achieve Liquid is not applied first.



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Bronate® and Buctril® trademarks of Aventis CropScience

Curtail®, Starane®, and Stinger® trademarks of Dow AgroSciences

Harmony® trademark of E. I. duPont de Nemours & Co., Inc.

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For nonemergency (e.g. current product information), call
Syngenta Crop Protection 1-800-334-9481

Product of United Kingdom
Formulated in the USA

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

SCP 1130A- [2.16 gal.]

ACH LIQ 1130A – pd 11/7/02

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Base Label
(2.16 gal.)

Achieve® Liquid Herbicide

Postemergence Herbicide for Control of Certain Annual Grassy Weeds in Wheat and Barley

Active Ingredient:

Tralkoxydim

2-Cyclohexen-1-one, 2-[1-(ethoxyimino)propyl]-3-hydroxy-

5-(2,4,6-trimethylphenyl)-(9CI) 35.0%

Other Ingredients: 65.0%

Total:

Contains 3.33 lbs. active ingredient per gallon or 400 grams a.i./L.

See additional precautionary statements and directions for use inside 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. 100-1130

EPA Est. 100-NE-001

Product of United Kingdom

Formulated in the USA

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Syngenta Crop Protection, Inc.

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SCP 1130A-

2.16 gallons

U.S. Standard Measure

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KEEP OUT OF REACH OF CHILDREN.

CAUTION

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing.

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If in eyes	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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.
Have the product container or label with you when calling a poison control center or doctor or going for treatment.	
HOTLINE NUMBER For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident) Call 1-800-888-8372	

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.

Environmental Hazards

Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash water or rinsate.

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Spray Drift

Do not make aerial applications under conditions involving possible drift to nontarget plants. Refer to the local state laws, regulations, and guidelines for proper application to avoid off-target movement.

Physical and Chemical Hazards

Do not use or store near heat or open flame.

Storage and Disposal

Prohibitions

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Keep away from heat and flame.

Storage

Keep container tightly closed when not in use. Do not store near seed, fertilizers, or foodstuffs. Can be stored at temperatures as low as minus 50°F.

Pesticide Disposal

Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal

Triple rinse (or equivalent); then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

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