

GROUP 1 HERBICIDE

ACHIEVE® 40DG Herbicide

AGRICULTURAL

A POST EMERGENCE HERBICIDE FOR CONTROL OF ANNUAL GRASSES IN SPRING WHEAT, DURUM WHEAT, WINTER WHEAT, BARLEY, TRITICALE, SPRING RYE, WINTER RYE AND SELECTED FORAGE GRASSES

FOR SALE FOR USE IN MANITOBA, SASKATCHEWAN, ALBERTA, PEACE RIVER REGION, OKANAGAN DISTRICT & CRESTON FLATS AREA OF BRITISH COLUMBIA AND EASTERN CANADA ONLY

GUARANTEE:

tralkoxydim40%

**READ THE LABEL AND ATTACHED BROCHURE BEFORE USING
KEEP OUT OF REACH OF CHILDREN**



WARNING: SKIN AND EYE IRRITANT

REGISTRATION NO. **22900**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **2 Kg, 4Kg, 8 Kg, Bulk**

Syngenta Crop Protection Canada, Inc.
140 Research Lane
Research Park, University of Guelph
Guelph, ON N1G 4Z3

Notification Change

NOTICE TO USER

This control product is to be used only in accordance with directions on this label. It is an offense under the *Pest Control Products Act* to use a control product under unsafe conditions.

NOTICE TO BUYER

Seller's guarantee shall be limited to the terms set out on the label and, subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

FIRST AID

If in eyes, flush **IMMEDIATELY** with a large volume of clean water for 10-15 minutes. If irritation persists, get medical attention. **If swallowed**, do not induce vomiting. Call a physician or Poison Control Centre **IMMEDIATELY**. **If on skin**, wash with soap and water. If irritation persists, get medical attention **IMMEDIATELY**. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

Treat symptomatically for ingestion and/or skin and eye contact. Symptoms are likely to be those of CNS (central nervous system) depression. Avoid respiratory depressants unless otherwise indicated.

PRECAUTIONS**KEEP OUT OF REACH OF CHILDREN.**

Harmful if swallowed.

May cause skin and eye irritation. Do not get on skin or in eyes. Do not wear contact lenses when using chemicals.

Do not smoke, eat, or drink while using this product.

Wear chemically resistant gloves (nitrile), safety goggles, boots and coveralls when mixing, loading, and during clean up or when adjusting or repairing sprayer.

Wash gloves thoroughly with water before removing them during any operation.

Wash hands thoroughly with soap and water after using the product and before eating, drinking or smoking.

Do not contaminate food, water supplies or animal feed.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., contact 1-866-375-4648 or www.cropro.org/.

ENVIRONMENTAL PRECAUTIONS

When applied by ground, do not apply within 15 m of non crop areas. **When applied by air**, do not apply within 50 m of non crop areas. Non crop areas include, fish-bearing waters, wetlands (potholes, sloughs etc.) and wildlife habitat (hedgerows, rights-of-way etc.). Avoid drift onto other crops and non-target areas.

STORAGE

Store in a cool, dry place, away from children, animals, food, feed or fertilizers. Keep unused product in resealed original container. **Keep packages dry at all times.** Product is not affected by freezing.

SPILL CLEANUP

Follow safety precautions as directed for handling the product. Sweep spilled product with a broom and shovel into tightly closable container. If on a floor or hard surface, wash the surface or floor with detergent and water, then rinse. If on soil, collect contaminated surface soil with the product. If the product is clean, it may be used; otherwise, follow the DISPOSAL instructions.

DECONTAMINATION AND DISPOSAL:

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean up of spills.

CONTAINER DISPOSAL:

Recyclable Container:

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING
CALL 1-800-327-8633 (FASTMED)***

® ACHIEVE is a registered trademark of a Syngenta group company.

11-JUL-2003

GROUP 1 HERBICIDE

ACHIEVE® 40DG
Herbicide

AGRICULTURAL

A POST EMERGENCE HERBICIDE FOR CONTROL OF ANNUAL GRASSES IN SPRING WHEAT, DURUM WHEAT, WINTER WHEAT, BARLEY, TRITICALE, SPRING RYE, WINTER RYE AND SELECTED FORAGE GRASSES

FOR SALE FOR USE IN MANITOBA, SASKATCHEWAN, ALBERTA, PEACE RIVER REGION, OKANAGAN DISTRICT & CRESTON FLATS AREA OF BRITISH COLUMBIA AND EASTERN CANADA ONLY

GUARANTEE:

tralkoxydim40%

READ THE LABEL AND ATTACHED BROCHURE BEFORE USING
KEEP OUT OF REACH OF CHILDREN



WARNING: SKIN AND EYE IRRITANT

REGISTRATION NO. **22900**
PEST CONTROL PRODUCTS ACT

Syngenta Crop Protection Canada, Inc.
140 Research Lane
Research Park, University of Guelph
Guelph, ON N1G 4Z3

NOTICE TO USER

This control product is to be used only in accordance with directions on this label. It is an offense under the *Pest Control Products Act* to use a control product under unsafe conditions.

NOTICE TO BUYER

Seller's guarantee shall be limited to the terms set out on the label and, subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

FIRST AID

If in eyes, flush **IMMEDIATELY** with a large volume of clean water for 10-15 minutes. If irritation persists, get medical attention. **If swallowed**, do not induce vomiting. Call a physician or Poison Control Centre **IMMEDIATELY**. **If on skin**, wash with soap and water. If irritation persists, get medical attention **IMMEDIATELY**. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

Treat symptomatically for ingestion and/or skin and eye contact. Symptoms are likely to be those of CNS (central nervous system) depression. Avoid respiratory depressants unless otherwise indicated.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

Harmful if swallowed.

May cause skin and eye irritation. Do not get on skin or in eyes. Do not wear contact lenses when using chemicals.

Do not smoke, eat, or drink while using this product.

Wear chemically resistant gloves (nitrile), safety goggles, boots and coveralls when mixing, loading, and during clean up or when adjusting or repairing sprayer.

Wash gloves thoroughly with water before removing them during any operation.

Wash hands thoroughly with soap and water after using the product and before eating, drinking or smoking.

Do not contaminate food, water supplies or animal feed.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., contact 1-866-375-4648 or www.cropro.org/.

ENVIRONMENTAL PRECAUTIONS

When applied by ground, do not apply within 15 m of non crop areas. **When applied by air**, do not apply within 50 m of non crop areas. Non crop areas include, fish-bearing waters, wetlands (potholes, sloughs etc.) and wildlife habitat (hedgerows, rights-of-way etc.). Avoid drift onto other crops and non-target areas.

STORAGE

Store in a cool, dry place, away from children, animals, food, feed or fertilizers. Keep unused product in resealed original container. **Keep packages dry at all times.** Product is not affected by freezing.

SPILL CLEANUP

Follow safety precautions as directed for handling the product. Sweep spilled product with a broom and shovel into tightly closable container. If on a floor or hard surface, wash the surface or floor with detergent and water, then rinse. If on soil, collect contaminated surface soil with the product. If the product is clean, it may be used; otherwise, follow the DISPOSAL instructions.

DECONTAMINATION AND DISPOSAL:

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean up of spills.

CONTAINER DISPOSAL:

Recyclable Container:

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING
CALL 1-800-327-8633 (FASTMED)***

PRODUCT INFORMATION

ACHIEVE 40DG Herbicide is a systemic, postemergence herbicide for the selective control of wild oats, volunteer tame oats, green foxtail, yellow foxtail, barnyard grass and Persian Darnel in spring wheat, winter wheat, durum wheat, barley, triticale, spring rye and winter rye. ACHIEVE 40DG Herbicide can be used to control grass weeds in seedling and established Timothy and in the following forage grass crops grown for seed production only: intermediate and crested wheatgrass, creeping red fescue, meadow and smooth brome grass. ACHIEVE 40DG Herbicide can also be used in the establishment of northern, western and slender wheatgrass.

DIRECTIONS FOR USE

CEREAL CROPS (Spring Wheat, Winter Wheat, Durum Wheat, Barley, Triticale, Spring Rye and Winter Rye)

ACHIEVE 40DG Herbicide can be used in all varieties of spring wheat (including Canada Western red spring, amber durum, soft white spring, extra strong and Canada prairie spring), red winter wheat, all 2 or 6 row varieties of barley (malting and feed varieties), all varieties of triticale, spring rye and winter rye.

EASTERN CANADA: ACHIEVE 40DG Herbicide is to be used **only for the control of wild oats** in spring wheat, winter wheat, durum wheat, barley and all varieties of triticale and spring rye and winter rye. Please refer to the respective sections on the label for rates and approved tank mixes with broadleaf herbicides.

CEREAL CROPS UNDERSEEDED TO FORAGE LEGUMES: ACHIEVE 40DG Herbicide alone may be applied to cereal crops underseeded to forage legumes such as alfalfa, birdsfoot trefoil, sainfoin or clovers. Do not feed or graze forage crops in year of treatment, sufficient data are not available to support this use.

CAUTIONS:

Tillered cereal crops may incur injury if applications are made within 48 hours of freezing temperatures. Non-tillering cereal crops which are exposed to temperatures of 4°C or less up to 48 hours before or after application may incur injury. Tankmixing ACHIEVE 40DG Herbicide with a broadleaf weed herbicide under adverse conditions may increase severity of crop injury. Crops under stress from foliar diseases or low fertility are more susceptible to injury from ACHIEVE 40DG Herbicide.

Do not tankmix ACHIEVE 40DG Herbicide with any broadleaf herbicides when applying to cereal crops underseeded to forage legumes as the forages may be injured or killed. ACHIEVE 40DG Herbicide can be tank mixed with 2,4-DB when applying to cereals underseeded to alfalfa.

Do not use in tame oat crops. Avoid drift onto tame oat and corn crops.

Do not replant tame oats or corn crops for at least 4 weeks after application of ACHIEVE 40DG Herbicide.

MINIMUM INTERVAL TO HARVEST: Immature cereal crops may be grazed or cut for hay 16 days after treatment. Grain may be harvested 60 days after treatment. Mature straw may be fed to livestock. Do not feed or graze underseeded forage crops in the year of treatment, sufficient data are not available to support this use.

SELECTED FORAGE GRASS CROPS (PRAIRIE PROVINCES ONLY)

Seedling Timothy Grown for Seed Production:

ACHIEVE 40DG Herbicide can be applied to seedling Timothy grown for seed production without a companion crop, in the year of establishment or the following spring. Apply at the rate of 0.5 kg/ha at the 5-6 leaf stage of crop in 100 L/ha spray volume. CAUTION: Some injury and subsequent reduction in seed yield will occur, however, this may be offset by the benefit of reduced weed seed

contamination of the Timothy seed.

Always add TURBOCHARGE® to the spray solution at a rate of 0.5 L per 100 L of water (0.5% v/v).

Established Timothy:

ACHIEVE 40DG Herbicide can be used in established Timothy. Make one application per year at the 5-6 leaf growth stage of the Timothy crop. The treated crop may be harvested or cut for hay 16 days after treatment.

CAUTION: Crop injury and subsequent reduction in forage dry matter yield will be observed if the application is made earlier than the 5 leaf stage of the crop, or the water volume is reduced below 100 L/ha, or when the crop is under stress.

ACHIEVE 40DG Herbicide can be used in intermediate and crested wheatgrass, creeping red fescue, meadow and smooth brome grass (grown for seed, established or seedlings) either underseeded to cereals or grown alone. ACHIEVE 40DG Herbicide can also be used in the establishment of northern, western and slender wheatgrass. Crop injury or slight yield reductions may be expected following treatment in the year of establishment, however, the injury is transient and the crop will recover the following year.

CAUTIONS:

Do not tank mix ACHIEVE 40DG Herbicide with other herbicides when applying to these forage grasses. *For forage grasses only, apply ACHIEVE 40DG Herbicide prior to tillering of the weeds. Applications made after the weeds have tillered may result in unacceptable weed control due to poor crop competition compared to cereal crops.

WEEDS CONTROLLED:

Apply ACHIEVE 40DG Herbicide to actively growing weeds for best results. Weeds emerging after application of ACHIEVE 40DG Herbicide will not be controlled.

CROP	WEEDS CONTROLLED	WEED TIMING (ZADOKS or BBCH)	ACHIEVE RATE	TURBOCHARGE RATE
WHEAT DURUM BARLEY TRITICALE RYE	WILD OATS, VOLUNTEER OATS	1-6 leaf (2 tiller) (11,20 to 14,22)	0.5 kg/ha	0.5 L/100 L Spray Volume (0.5% v/v)
	GREEN FOXTAIL, YELLOW FOXTAIL	1-5 leaf (1 tiller) (11,20 to 14,21)		
	BARNYARD GRASS PERSIAN DARNEL	1-4 leaf (11 to 14)		
SELECTED FORAGE GRASSES	WILD OATS, VOLUNTEER OATS, GREEN FOXTAIL, YELLOW FOXTAIL, PERSIAN DARNEL	1-4 leaf (11 to 14)		

Optimum weed control and crop yield response occurs when grassy weeds are removed before they begin to tiller. Refer to the illustration.

***Insert illustration here.**

CAUTIONS:

Perennial grasses such as quack grass will not be controlled.

Susceptible grassy weeds treated with ACHIEVE 40DG Herbicide cease growth soon after application, however, complete die-back of the weeds could take up to 2 weeks.

When grass 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 40DG Herbicide is delayed until the stress conditions have ended and weeds are once again actively growing.

ACHIEVE 40DG Herbicide is not affected by rain falling one hour or more after application.

TANK MIXES OF ACHIEVE 40DG HERBICIDE WITH BROADLEAF WEED HERBICIDES

ACHIEVE 40DG Herbicide alone will not control broadleaf weeds. For broad spectrum control of both annual grasses and broadleaf weeds, ACHIEVE 40DG Herbicide can be tank mixed with 2,4-D Ester, MCPA Ester, 2,4-DB (eg. EMBUTOX[®] 625, CALIBER[®] 400), ATTAIN[®], BUCTRIL[®]M, BUCTRIL[®]M GEL, PARDNER[®], THUMPER[®], LONTREL[®], CURTAIL[®]M, PRESTIGE[®], OKAY 450M or dichlorprop/2,4-D Ester products (eg. ESTAPROP[®], TURBOPROP[®], Dichlorprop-D, etc.).

Read the appropriate broadleaf herbicide label for information on broadleaf weeds controlled.

CAUTIONS: Read and strictly adhere to the use directions and precautions on the label of the product(s) that is/are being tank mixed with ACHIEVE 40DG Herbicide. Also note all environmental restrictions such as rainfastness and maximum spraying temperatures on the label of the other product(s) being tank mixed.

With reduced water volumes, tank mixes with BUCTRIL M products, THUMPER or PARDNER may result in some initial injury in the form of "tip burn". This injury, however, will not have any adverse effect on crop maturity or yield.

Do not tank mix ACHIEVE 40DG Herbicide with broadleaf herbicides (listed in table) when applying to cereal crops underseeded to forage legumes as the forages may be injured or killed. ACHIEVE 40DG Herbicide can be tank mixed with 2,4-DB when applying to cereals underseeded to alfalfa. This tank mix may cause transient injury on alfalfa and wheat. The rate of 2,4-DB should not exceed 2 L/ha (assuming 625 g 2,4-DB ai/L). The minimum water volume is 100 L/ha for cereals and 125 L/ha for forage legumes. Tank mixes with ATTAIN or PRESTIGE may cause temporary crop injury if applied before the 4-leaf stage, however, yield will not normally be affected. This tank mix may provide a lower level of wild oat control than ACHIEVE 40DG Herbicide alone.

Temporary crop injury may occur with registered tank mixes, in particular 2,4-D Ester/dichlorprop products, under extreme weather conditions or when the crop is suffering from stress due to inadequate or abnormally high moisture levels, or extreme temperatures. Barley may be injured with tank mixes of 2,4-D Ester/dichlorprop and BUCTRIL M products plus MCPA.

Do not tank mix with amine formulations of 2,4D or with amine formulations of MCPA or

with 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

Herbicides not listed on this label for tank mixing with ACHIEVE 40DG Herbicide may be applied separately in sequence. Always apply ACHIEVE 40DG Herbicide first and allow at least 7 days after the application of ACHIEVE 40DG Herbicide before applying the other herbicide. Herbicides labelled for tank mixing with ACHIEVE 40DG Herbicide may also be applied sequentially, either before or after application of ACHIEVE 40DG Herbicide.

TANK MIX OF ACHIEVE 40DG HERBICIDE WITH INSECTICIDE

ACHIEVE 40DG Herbicide alone or in combination with BUCTRIL M products can be tank mixed with MATADOR 120EC or DECIS® Flowable for one pass weed and insect control. Always add MATADOR 120EC or DECIS Flowable to the spray tank after the herbicides but before adding TURBOCHARGE.

Refer to tank mix partner label for additional use instructions, safety precautions and handling instructions.

RATE OF USE: Apply ACHIEVE 40DG Herbicide at 0.5 kg/ha in 50-100 L/ha of water. 1 case of ACHIEVE 40DG Herbicide (2 containers, 4 kg each) + TURBOCHARGE will treat 16 ha (40 acres). 1 case of ACHIEVE 40DG Extra Gold (1x4 kg container of ACHIEVE 40DG Herbicide + 1 container of TURBOCHARGE + 1 container of BUCTRIL M) will treat 8 ha (20 acres).

Note: The amount of TURBOCHARGE included in the case is the correct amount for a spray volume of 100 L/ha. If a lower spray volume is used, the amount of TURBOCHARGE must be reduced accordingly. Always add TURBOCHARGE® to the spray solution at a rate of 0.5 L per 100 L of water (0.5% v/v). The incorrect TURBOCHARGE rate can result in unacceptable weed control or crop injury. See MIXING and SPRAYING INSTRUCTIONS section.

FOR ALL TANK MIXES, USE 0.5 kg ACHIEVE 40DG HERBICIDE/ha PLUS THE FOLLOWING:		
BROADLEAF HERBICIDE	MAXIMUM RATE OF BROADLEAF HERBICIDE	REMARKS
BUCTRIL M	1 L/ha	Additional MCPA Ester may be added to this tank mix to improve control of certain broadleaf weeds (i.e. hemp nettle, volunteer canola). Refer to the BUCTRIL M label for recommended MCPA Ester rates. A reduction in control of green foxtail may occur with the tankmix of BUCTRIL M and additional MCPA Ester.
BUCTRIL M GEL	1 water soluble bag/4 ha	
ATTAIN	ATTAIN A 0.6 L/ha + ATTAIN B 1 L/ha	Do not apply prior to the 4 leaf stage of the crop as temporary crop injury could occur, particularly in spray overlaps.
PARDNER	1 L/ha	
PRESTIGE	PRESTIGE A 0.8 L/ha + PRESTIGE B 2.0 L/ha	For use on spring barley and spring wheat only. Apply postemergence when weeds are in the seedling stage (2- to 4-leaf) and when spring wheat (excluding Durum) and spring barley are

FOR ALL TANK MIXES, USE 0.5 kg ACHIEVE 40DG HERBICIDE/ha PLUS THE FOLLOWING:		
BROADLEAF HERBICIDE	MAXIMUM RATE OF BROADLEAF HERBICIDE	REMARKS
		in the 3-leaf to just before the flag-leaf emergence stage. Do not apply later than the flag-leaf emergence stage. DO NOT APPLY BY AIR.
THUMPER	1 L/ha	
Dichlorprop/ 2,4-D Ester	1.75 L/ha (assuming 600 g dichlorprop/2,4-D Ester ai/L)	To ensure optimum crop safety, do not apply prior to the 4 leaf stage of the crop as per the dichlorprop/2,4-D Ester label timing.
2,4-DB	2.0 L/ha (assuming 625 g 2,4-DB ai/L)	Do not apply prior to the 5 leaf stage of the cereal crop as temporary injury may occur.
2,4-D Ester	0.9 L/ha (assuming 600 g 2,4-D ai/L)	Do not apply prior to the 4 leaf stage of the crop as temporary crop injury could occur, particularly in spray overlaps.
MCPA Ester	1.12 L/ha (assuming 500 g MCPA ai/L)	
LONTREL 360 + MCPA Ester or CURTAIL M	0.28 L/ha + 1.12 L/ha (assuming 500 g MCPA ai/L) 2 L/ha	Apply between 3 leaf expanded to before flag leaf of the crop. DO NOT apply after 6 leaf stage of the crop.
MATADOR 120EC	63-83 mL/ha	This tank mix option is for wild oat and grasshopper control only. A reduction in control of green and yellow foxtail may be observed when Matador 120EC Insecticide is tank mixed with Achieve 40DG Herbicide. Don not apply this tank mix by air.
OKAY 450M	1.25 L/ha	For use on spring wheat, durum and barley only.
DECIS Flowable	120 mL/ha	

MIXING INSTRUCTIONS

Follow the mixing instructions below for adding ACHIEVE 40DG Herbicide to the spray tank.

1. Only use sprayers in good running condition with high agitation. Ensure the sprayer and pre-mix tank is cleaned according to instructions on label of the product used prior to ACHIEVE 40DG Herbicide. 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 ACHIEVE 40DG Herbicide **slowly**. Do not enlarge the opening of the ACHIEVE 40DG Herbicide container. Remove straining screen from filler opening of spray tank before adding ACHIEVE 40DG Herbicide. (NOTE: ACHIEVE 40DG Herbicide 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 60 cm or less, add ACHIEVE

40DG HERBICIDE towards agitator unit and away from outlet in the bottom of the tank to enhance dispersion. If more than 1 case of ACHIEVE 40DG Herbicide is to be used, add the ACHIEVE 40DG Herbicide from all cases prior to adding tank mixed products or TURBOCHARGE.

4. Wait at least one minute after the last of the ACHIEVE 40DG Herbicide has been added to the tank to allow for complete dispersion of the granules. A longer agitation period may be required to disperse ACHIEVE 40DG Herbicide when using cold water from sources such as deep drilled wells.
5. If tank mixing, add the recommended product(s) next.
6. Lastly, add TURBOCHARGE, and then continue to fill tank to desired level with water. (NOTE: TURBOCHARGE must be added directly into the sprayer through the tank opening and **not through injector or hopper systems**, for sprayers so equipped).

SPRAYING INSTRUCTIONS

Ground Spray Equipment

1. Apply in a spray volume of 50-100 L/ha at a pressure of 275 kPa to ensure proper dispersion, spraying characteristics and performance of ACHIEVE 40DG HERBICIDE. Do not apply ACHIEVE 40DG Herbicide through SPRAFOIL™ sprayers since mixing problems and/or unacceptable crop injury could occur.
2. Flat fan nozzles of 80° or 110° are recommended for optimum coverage. Do not use floodjet nozzles or controlled droplet application equipment. Nozzles may be angled forward 45° to enhance penetration of the crop and provide better coverage. Ensure that all in-line strainer and nozzle screens in the sprayer are 50 mesh or coarser. Screens of 80 mesh or finer should not be used.
3. Always ensure that agitation is continued until spraying is completed, even if stopped for brief periods of time. **If the agitation is stopped for more than 5 minutes, re-suspend the spray solution by running on full agitation prior to spraying. Do not begin spraying until fully re-suspended. ACHIEVE 40DG Herbicide must be sprayed within the same day of mixing.**
4. When spraying is completed and prior to using other products, ensure the sprayer tank is thoroughly rinsed with clean water to remove any remaining ACHIEVE 40DG Herbicide residues. Using a pressure washer and the addition of a detergent or AGRAL® 90 to the rinse water will enhance removal of residues.

Aerial Spray Equipment

1. **Apply in a spray volume of 30 to 45 L/ha at a pressure of 140-275 kPa to ensure proper dispersion, spraying characteristics and performance of ACHIEVE 40DG Herbicide.**
2. **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.

3. Always ensure that agitation is continued until spraying is completed, even if stopped for brief periods of time. **If the agitation is stopped for more than 5 minutes, re-suspend the spray solution by running on full agitation prior to spraying. ACHIEVE 40DG Herbicide must be sprayed within the same day of mixing.**
4. Do not apply ACHIEVE 40DG Herbicide if the wind is more than 13 km/h. This will avoid spray drift onto non-target areas.
5. **Do not** spray ACHIEVE 40DG Herbicide if tame oats are present in adjacent, downwind fields.
6. When spraying is completed and prior to using other products, ensure the sprayer tank is thoroughly rinsed with clean water to remove any remaining ACHIEVE 40DG Herbicide residues. Using a pressure washer and the addition of a detergent or AGRAL 90 to the rinse water will enhance removal of residues.
7. **DO NOT APPLY within 50 m of non crop areas.** This includes fish-bearing waters, wetlands (potholes, sloughs etc.) and wildlife habitat (hedgerows, rights of way, etc.).

Generic Aerial Application Label Instructions - Directions for Use

Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.

Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

Use Precautions

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the *Basic Knowledge Requirements for Pesticide Education in Canada: Applicator Core* and *Aerial Module*, developed by CAPCO.

Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas. Specified buffer zones should be observed.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist). Do not apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

Operator Precautions

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.

It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call the manufacturer or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following:

Volume: Apply the recommended rate in a minimum spray volume of 30 litres per hectare.

Refer to ENVIRONMENTAL PRECAUTIONS for additional details.

Resistance-Management Recommendations

For resistance management, ACHIEVE 40DG Herbicide is a Group 1 herbicide. Any weed population may contain or develop plants naturally resistant to ACHIEVE 40DG Herbicide and other Group 1 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field.

Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance:

Where possible, rotate the use of ACHIEVE 40DG Herbicide or other Group 1 herbicides with different herbicide groups that control the same weeds in a field.

Use tank mixtures with herbicides from a different group when such use is permitted.

Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.

Monitor treated weed populations for resistance development. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.

Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops

and weed biotypes.

For further information or to report suspected resistance, contact company representatives at 1-800-459-2422 (in Eastern Canada) or 1-800-665-9250 (in Western Canada) or at www.syngenta.ca.

- ® ACHIEVE, AGRAL, MATADOR and TURBOCHARGE are registered trademark of a Syngenta group company.
BUCTRIL, PARDNER, THUMPER, ESTAPROP, EMBUTOX are registered trademarks of the Aventis group.
TURBOPROP and CALIBER are registered trademarks of United Agri Products.
DECIS is a registered trademark of Roussel Uclaf.
ATTAIN, LONTREL and CURTAIL are registered trademarks of Dow AgroSciences.
Okay is a registered trademark of Nufarm
- ™ SPRAFOIL is a trademark of D & W Industries.

This label transcript service is offered by the Pest Management Regulatory Agency to provide efficient searching for label information. This service and this information do not replace the official hard-copy label. The PMRA does not provide any guarantee or assurance that the information obtained through this service is accurate, current or correct, and is therefore not liable for any loss resulting, directly or indirectly, from reliance upon this service.