

GROUP	27	HERBICIDE
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TOLPYRALATE 400SC HERBICIDE

AGRICULTURAL

SUSPENSION CONCENTRATE

A HERBICIDE FOR PRE-PLANT, PRE-EMERGENCE AND POST-EMERGENCE WEED CONTROL IN WHEAT AND BARLEY, AND POST-EMERGENCE WEED CONTROL IN ALL TYPES OF FIELD CORN, SWEET CORN, SEED CORN AND POPCORN.

ACTIVE INGREDIENT : Tolpyralate 400 g/L

Contains 1,2-benzisothiazolin-3-one at 0.008% as a preservative

OR

Contains 2-Bromo-2-nitropropane-1,3-diol at 0.00352%

and

5-Chloro-2-methyl-4-isothiazolin-3-one at 0.00034%

and

2-Methyl-4-isothiazolin-3-one at 0.00011% as preservatives

READ THE LABEL BEFORE USING

KEEP OUT OF REACH OF CHILDREN

REGISTRATION NO: 32901
PEST CONTROL PRODUCTS ACT

Net Contents: 500 mL - 200 L

Registrant
ISK Biosciences Corporation
740 Auburn Road, Suite A
Concord, Ohio 44077 USA
1-877-706-4640

NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the ***PEST CONTROL PRODUCTS ACT*** to use this product in a way that is inconsistent with the directions on the label.

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 centre 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 centre or doctor for treatment advice.

IF INHALED: Move the person to fresh air. If the person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

IF SWALLOWED: Call a poison control centre or doctor immediately for treatment advice. Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

There is no specific antidote for this product. Treat symptomatically.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash separately from other laundry before reuse.

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. Gloves are not required during application within a closed cab and/or cockpit. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove personal protection equipment (PPE) immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Keep and wash PPE separately from other laundry.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 2 days to perform hand detasseling in corn. For all other post application activities, **DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

SPRAY DRIFT MANAGEMENT

Apply only to agricultural crops when the potential for drift to areas of human habitation and human activity, such as houses, cottages, schools and recreational areas, is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

ENVIRONMENTAL PRECAUTIONS

Toxic to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.

STORAGE

Store this product away from food or feed.

DISPOSAL

For recyclable containers :

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 or territorial requirements.

Disposal of unused, unwanted product:

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

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AGRICULTURAL

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READ THE LABEL BEFORE USING

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REGISTRATION NO: 32901
PEST CONTROL PRODUCTS ACT

Net Contents: 500 mL - 200 L

Registrant
ISK Biosciences Corporation
740 Auburn Road, Suite A
Concord, Ohio 44077 USA
1-877-706-4640

PMRA Approved Label
2024-1856
2025-09-25

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Do not apply this product in a way that will contact workers or other persons, either directly or through drift.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 2 days to perform hand detasseling in corn. For all other post application activities, **DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

SPRAY DRIFT MANAGEMENT

Apply only to agricultural crops when the potential for drift to areas of human habitation and human activity, such as houses, cottages, schools and recreational areas, is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

ENVIRONMENTAL PRECAUTIONS

Toxic to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.

STORAGE

Store this product away from food or feed.

DISPOSAL

For recyclable containers :

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Disposal of unused, unwanted product:

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RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, Tolpyralate 400SC Herbicide is Group 27 herbicide. Any weed population may contain or develop plants naturally resistant to Tolpyralate 400SC Herbicide and other Group 27 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 Tolpyralate 400SC Herbicide or other Group 27 herbicides within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures from a different group when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.
- Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control methods), cultural (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Monitor weed populations after herbicide application for signs of resistance development (for example, only one weed species on the herbicide label not controlled). If resistance is suspected, prevent weed seed production in the affected area if possible by an alternative herbicide from a different group. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.
- 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 ISK Biosciences Corporation at 877-706-4640.

DIRECTIONS FOR USE

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

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DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

General Use Information:

Tolpyralate 400SC Herbicide is a suspension concentrate for selective control of certain grass and broadleaf weeds when applied pre-plant, pre-emergence, and/or post-emergence in wheat and barley and post-emergence in field corn, seed corn, sweet corn and/or popcorn. Uptake of Tolpyralate 400SC Herbicide by susceptible weeds is through contacted foliage. Growth ceases soon after application. Complete death of weeds may take up to 2 weeks but will not compete with the growing crop.

Cultivation :

Avoid disturbing treated areas for at least 7 days after Tolpyralate 400 SC Herbicide application to allow maximum herbicide uptake and translocation. Avoid deep cultivation that will move dormant weed seeds into a zone where germination is likely. This is especially critical when tank mixing with a herbicide with soil residual activity.

Environmental Conditions and Biological Activity :

Tolpyralate 400 SC Herbicide provides best results when applied to young, actively growing weeds. Applications made during warm, moist conditions (21°C or more) and adequate soil moisture both before and after application maximizes performance.

The degree and duration of control depend on spray coverage, weed spectrum, weed size, growing conditions before and after treatment and soil moisture.

Tolpyralate 400SC Herbicide is rainfast in 1 hour. Treating weeds that exceed maximum label height or that are under stress may result in incomplete control. Poor weed control or crop injury may result from applications made to plants under stress from:

- abnormally hot or cold weather
- environmental conditions such as drought, water-saturated soils, hail damage, or frost
- disease, insect, or nematode injury
- prior herbicide, or carryover from a previous year's herbicide application

If the crop or grass weeds are under stress, delay application until stress passes and both weeds and crop resume active growth.

Mixing and Loading Instructions :

Prepare no more spray mixture than is needed for the immediate application. Avoid the overnight storage of Tolpyralate 400SC Herbicide spray mixtures.

1. Ensure the spray system is free of residues from previous applications.
2. Fill the tank 1/2 full of clean water.
3. While agitating, add the required amount of Tolpyralate 400SC Herbicide.
4. Continue agitation until the Tolpyralate 400SC Herbicide is completely dispersed, at least 5 minutes.

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Once the Tolpyralate 400SC Herbicide is fully dispersed, maintain agitation and continue filling tank with water. Thoroughly mix Tolpyralate 400SC Herbicide with water before adding any other material.

5. As the tank is filling, add the required spray adjuvants (methyated seed oil or ammonium nitrogen fertilizer).
6. If the mixture is not continuously agitated, settling will occur. If settling occurs, thoroughly re-agitate before using.
7. Avoid overnight storage of Tolpyralate 400SC Herbicide spray mixtures.

GROUND APPLICATION

Field sprayer application: **DO NOT** apply when wind speed is less than 1 km/h. Avoid application of this product when winds are gusty. **DO NOT** apply with sprays finer than the American Society of Agricultural and Biological Engineers (ASABE) S572 (572.1 to 572.3) medium classification. Boom height must be 60 cm or less above the crop or ground.

All ground application equipment must be properly maintained and calibrated using appropriate carriers. Use the largest droplet size consistent with good pest control. Utilize a boom and nozzle sprayer equipped with the appropriate nozzles, spray tips and screens and adjusted to provide optimum spray distribution and coverage at the appropriate operating pressures. Utilize nozzles that produce minimal amounts of fine spray droplets. Do not exceed 205 kPa (30 psi) spray pressure unless otherwise required by the manufacturer of drift reducing nozzles. Sprayers should be adjusted to position spray tips a minimum of 46 cm (18 inches) above the crop. Be aware that overlaps and slower ground speeds while starting, stopping or turning while spraying may result in higher application rates.

AERIAL APPLICATION

Conventionally piloted aircraft application: **DO NOT** apply when wind speed is less than 1 km/h. Avoid application of this product when winds are gusty. **DO NOT** apply when wind speed is greater than 16 km/h at flying height at the site of application. **DO NOT** apply with sprays finer than the American Society of Agricultural and Biological Engineers (ASABE) S572 (572.1 to 572.3) medium classification. Reduce drift caused by turbulent wingtip vortices. Nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing- or rotorspan.

Apply only by 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 appear 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 or a Global Positioning System (GPS).

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Use Precautions :

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under the conditions of good practice specific to aerial application as outlined in the *National Aerial Pesticide Application Manual*, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.

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 at 877-706-4640 or obtain technical advice from the distributor or your provincial or territorial agricultural representative. Application of this specific product must meet and/or conform to the following:

Volume: Apply the recommended rate in a minimum of 50 litres of water per hectare per hectare.

Spray Buffer Zones:

A spray buffer zone is NOT required for uses with hand-held application equipment permitted on this label.

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands) and sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands).

Method of application	Crop	Spray Buffer Zones (metres) Required for the Protection of:					
		Freshwater Habitat of Depths:		Estuarine/Marine Habitat of Depths:		Terrestrial Habitat:	
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m		

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Field sprayer	Wheat, barley, field corn, sweet corn, seed corn and popcorn	1	1	0	0	2
Aerial	Wheat, barley	Fixed wing	1	1	0	60
		Rotary wing	1	1	0	50

When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

The spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Drift Mitigation portion of the Canada.ca website.

SPRAY ADDITIVES

To increase efficacy it is highly recommended to use an adjuvant when applying this product.

Adjuvant Selection:

The use of methylated seed oil (MSO) is recommended with Tolpyralate 400SC Herbicide. Apply 1 % v/v MSO (1 litre per 100 litres spray volume) of the final spray volume.

Ammonium Nitrogen Fertilizer :

- Overall weed control may be improved with the addition of a nitrogen source. Use 12.5 to 25 L/1000 L spray solution of a high-quality urea ammonium nitrate (UAN), such as 28% N or 32% N, or 8.4 to 20.4 kg/1000 L of a spray grade ammonium sulfate (AMS).
- Do not use liquid nitrogen fertilizer as the total carrier solution.

Tank Mixtures:

This product may be tank mixed with a fertilizers, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact the manufacturer at 1-877-706-4640 for information before applying any tank mix that is not specifically recommended on this label.

Do not tank mix or apply Tolpyralate 400SC Herbicide with any organophosphate insecticides.

Tank mixes are generally used to broaden or extend control of the weed spectrum present. Tank mix herbicides must be registered for use on the intended crop. A tank mixture with atrazine or bromoxynil is recommended unless the atrazine or bromoxynil product is not labelled for use on the specific crop or use site. An application of Tolpyralate 400SC

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Herbicide at 75 to 100 mL per hectare in combination with atrazine at a minimum of 0.56 kg ai per hectare or bromoxynil at a minimum of 0.28 kg ai per hectare will increase the speed of control, weed spectrum, and consistency of control. Follow atrazine or bromoxynil label restrictions.

The physical compatibility of Tolpyralate 400SC Herbicide with tank mix partners should be evaluated before use. Use tank-mix combinations only when applicator experience indicates that the tank mix will not result in excessive crop injury.

For tank mixtures, add individual components to the spray tank in the following sequence: water, water dispersible granules, water-soluble bags, dry flowables, emulsifiable concentrates, drift control additives, water-soluble liquids, liquid fertilizer and/or ammonium sulfate, and adjuvants.

Compatibility Test :

Additives and tank mixes should be tested for compatibility by mixing in a small container prior to mixing in spray tank.

In a glass jar (~1 litre size), add all mix partners, in their relative proportions. Invert, shake or mix the jar thoroughly.

If mixture forms precipitates (flakes or sludge), gels, balls up or forms oily films or layers, this indicates incompatibility. Though signs of incompatibility will typically be seen within 5 minutes of mixing, mixture should be observed for approximately 30 minutes.

Compatibility agents can be used to facilitate mixing. If compatibility agents do not facilitate mixing, the mixture is incompatible and should not be used.

Spray Equipment Clean Out :

After spraying Tolpyralate 400SC Herbicide and before using sprayer equipment for any other applications, the sprayer must be thoroughly cleaned using the following procedure.

1. Drain tank; thoroughly rinse inside of spray tanks with clean water (rinse about 1 minute per 95 litres of tank capacity). Loosen and physically remove any visible deposits with a stiff brush.
2. Fill the tank with clean water and add 3.78 litres of household ammonia (contains at least 3% active ingredient) for every 379 litres of water. Circulate the cleaning solution through the tank and hoses for at least 15 minutes. Flush the cleaning solution through the hoses, boom and nozzles (1/4 volume of tank capacity) and then drain the tank.
3. Repeat step 1.
4. Repeat step 2.
5. Remove the nozzles and screen and clean separately in a bucket containing cleaning agent and water.
6. Rinse the tank, boom and hoses with clean water.
7. If only ammonia is used as a cleaner, the rinsate solution from both steps 2 and 4 may be applied back to the crop(s) as specified on the label. Do not exceed the maximum label use rate. If other cleaners are used, consult the cleaner label for rinsate disposal instructions. If no instructions are given, dispose of the rinsate on site or at an approved waste disposal facility.

(Attention: Do **Not** use Chlorine bleach with ammonia as a dangerous gas will form).

APPLICATION INFORMATION

Tolpyralate 400SC Herbicide may be applied with all types of spray equipment normally used for ground and aerial applications.

Many crops are highly sensitive to Tolpyralate 400SC Herbicide. All direct or indirect contact (such as spray drift) with crops other than labeled crops should be avoided.

Sprayer Preparation :

Apply Tolpyralate 400SC Herbicide with spray equipment that has been cleaned and is free of pesticide deposits from previous pesticide use. Clean spray equipment according to manufacturer's directions, see previous pesticide label for appropriate cleanup directions.

For all application systems, use 50-mesh or larger strainer screens.

Pre-plant, Pre-emergence and Post-emergence Weed Control:

Ground application: Applications should be made in 140 to 470 litres of water per hectare. Use the higher water volumes if vegetation or crop residue is present. Best results are obtained when weeds are small and actively growing. Broadleaf weeds should be no larger than 10 centimeters and grasses should be no taller than 10 centimeters and prior to first tillering. Good coverage is essential to achieve optimum weed control. Higher spray volumes should be used under heavy weed populations or under adverse growing conditions.

Broadcast: Apply Tolpyralate 400SC Herbicide using conventional low-pressure ground spray equipment. Follow manufacture's recommendation for spraying pressure and boom height. Check spray equipment daily for proper maintenance and calibration.

Shielded Sprayers: Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

Aerial application: Use a minimum of 50 litres of water per hectare.

APPLICATION RESTRICTIONS

DO NOT apply this product through any type of irrigation system.

DO NOT apply more than two applications of Tolpyralate 400SC Herbicide to corn in one growing season.

Allow at least 14 days between applications of Tolpyralate 400SC Herbicide.

DO NOT apply Tolpyralate 400SC Herbicide within 45 days of field corn and popcorn grain harvest.

DO NOT apply Tolpyralate 400SC Herbicide within 35 days of fresh market sweet corn harvest.

DO NOT graze or feed treated corn forage or silage for 21 days after application of Tolpyralate 400SC Herbicide.

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DO NOT tank mix Tolpyralate 400SC Herbicide with atrazine when applying to wheat or barley.

DO NOT apply more than 40 g a.i./ha of Tolpyralate 400SC Herbicide to wheat or barley in one growing season.

DO NOT tank-mix Tolpyralate 400SC Herbicide with tiafenacil containing products when applying to barley.

DO NOT apply Tolpyralate 400SC Herbicide within 50 days of wheat or barley grain harvest.

DO NOT feed treated wheat or barley straw to livestock for a minimum of 50 days following application.

DO NOT graze livestock or harvest forage for hay from treated wheat or barley for a minimum of 21 days following application.

FIELD CORN, SWEET CORN, AND POPCORN

Tolpyralate 400SC Herbicide may be used in the production of field corn, sweet corn and popcorn. Tolpyralate 400SC Herbicide may be applied as a broadcast spray on corn up to 50 cm tall or that is exhibiting up to and including 6 leaf collars (V6), whichever is more restrictive. While Tolpyralate 400SC Herbicide has a wide application window in terms of crop safety, research has shown best results are obtained when applications are made early post-emergence when corn and weeds are small. Target applications to corn that is less than 30 cm tall for improved coverage and best overall performance. Apply by ground spray equipment only.

FIELD CORN GROWN FOR SEED

Seed corn inbred lines may vary in their tolerance to herbicides, including to Tolpyralate 400SC Herbicide. Since not all seed corn inbred lines have been tested for tolerance to Tolpyralate 400SC Herbicide, first use of Tolpyralate 400SC Herbicide should be limited to a small area of each inbred line to confirm tolerance prior to adoption as a general field practice. Additionally, consult your seed corn supplier for information on the tolerance of specific inbred lines of seed corn to Tolpyralate 400SC Herbicide.

WHEAT AND BARLEY

Applications may be made pre-plant, pre-emergence or post-emergence to wheat and barley. For post-emergence applications, apply to barley, and spring, durum and winter wheat from the one leaf stage to flag leaf emergence. Winter wheat applications can be made in the fall or spring. Apply by air or ground spray equipment.

Timing to Weeds :

Apply Tolpyralate 400SC Herbicide when susceptible weeds are young and actively growing. Treat heavy infestations of weeds before they become too competitive with the crop, especially where soil moisture and/or fertility are limited. Tolpyralate 400SC Herbicide provides weed control via foliar absorption. For later-emerging weeds, a second application or a timely cultivation for corn only is required. Applications made to weeds larger than the size indicated on this label or to weeds under stress may result in unsatisfactory control.

Rate :

Optimum control of the weeds listed can be achieved with 75 to 100 mL Tolpyralate 400SC

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Herbicide per hectare (30 to 40 g ai/ha) applied as a solo treatment. Use of the higher rate for heavier infestations is recommended. A broader spectrum of weeds can be controlled when Tolpyralate 400SC is tank-mixed with either atrazine or bromoxynil. A 50 mL rate of Tolpyralate 400SC can be effective in extending the spectrum and residual control of the weeds listed when tank-mixed with tiafenacil or carfentrazone-ethyl as part of a pre-plant, pre-emergence weed control program.

WEEDS CONTROLLED

When applied as directed, Tolpyralate 400SC Herbicide will control or partially control the weeds listed in Tables 1 and 2.

Table 1. Broadleaf weeds controlled or suppressed with 75 to 100 mL Tolpyralate 400SC Herbicide per hectare

Broadleaf weeds		Tolpyralate 400SC at 75 to 100 mL/ha	Tank mix partners	
Common name	Scientific name		Atrazine ¹	Bromoxynil ²
Amaranth, Palmer	<i>Amaranthus palmeri</i>	S	C	S
Amaranth, Powell	<i>Amaranthus powellii</i>	S	C	S
Buckwheat, wild	<i>Polygonum convolvulus</i>	S	-	-
Canola, volunteer	<i>Brassica napus</i>	S	C	C
Cleavers	<i>Galium spp.</i>	S-C*	S-C*	C
Cocklebur, common	<i>Xanthium strumarium</i>	S-C*	C	C
Field pennycress/Fanweed	<i>Thlaspi arvense</i>	C	-	-
Fleabane, Canada	<i>Erigeron canadensis</i>	S-C*	C	S-C*
Kochia	<i>Bassia scoparia</i>	S	C	C
Lady's thumb	<i>Periscaria maculosa</i>	S-C*	C	C
Lamb's quarters, common	<i>Chenopodium album</i>	C	C	C
Mustard, wild	<i>Sinapis arvensis</i>	S	C	C
Pigweed, redroot	<i>Amaranthus retroflexus</i>	C	C	C
Pigweed, smooth	<i>Amaranthus hybridus</i>	C	C	C
Purslane, common	<i>Portulaca oleracea</i>	S	C	S
Ragweed, common	<i>Ambrosia artemisiifolia</i>	S	C	C
Ragweed, giant	<i>Ambrosia trifida</i>	S	C	C
Thistle, Russian	<i>Salsola kali ssp. ruthenica</i>	C	-	-
Shepherd's purse	<i>Capsella bursa-pastoris</i>	S	C	S
Smartweed, Pennsylvania	<i>Polygonum pensylvanicum</i>	S	S	S
Velvetleaf	<i>Abutilon theophrasti</i>	C	C	C
Waterhemp, common	<i>Amaranthus rudis</i>	S	C	S
Waterhemp, tall	<i>Amaranthus tuberculatus</i>	C	C	C

C = Control S = Suppression

¹Use Aatrex Liquid 480 Herbicide at a minimum of 0.56 kg ai per hectare.

²Use a product containing bromoxynil as the only active ingredient at a minimum of 0.28 kg ai per hectare.

* Suppression at 75 mL/ha, control at 100 mL/ha

Table 2. Broadleaf weeds controlled or suppressed with 50 mL Tolpyralate 400SC Herbicide per hectare

Broadleaf weeds		Tolpyralate 400SC at 50 mL/ha	Tank mix partners	
Common name	Scientific name		Tiafenacil ¹	Carfentrazone-ethyl ²
Buckwheat, wild	<i>Polygonum convolvulus</i>	-	C	S
Canola, volunteer	<i>Brassica napus</i>	-	C	C
Cleavers	<i>Galium spp</i>	-	-	C
Field pennycress/fanweed	<i>Thlaspi arvense</i>	S	C	C

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Kochia	<i>Bassia scoparia</i>	-	C	C
Lamb's quarters, common	<i>Chenopodium album</i>	C	C	C
Mustard, wild	<i>Sinapis arvensis</i>	S	S	S
Pigweed, redroot	<i>Amaranthus retroflexus</i>	S	C	C
Thistle, Russian	<i>Salsola kali</i> ssp. <i>ruthenica</i>	C	-	C
Velvetleaf	<i>Abutilon theophrasti</i>	C	-	C

C = Control S = Suppression

¹Use Insight 339SC Herbicide or Insight Liquid SC Herbicide at a minimum of 25 g ai per hectare

²Use Aim EC Herbicide at a minimum of 18 g ai per hectare.

Table 3. Grasses controlled or suppressed with 75 to 100 mL Tolpyralate 400SC Herbicide per hectare

Grassy weeds		Tolpyralate 400SC at 75 to 100 mL/ha	Tank mix partners	
Common name	Scientific name		Atrazine ¹	Bromoxynil ²
Barnyardgrass	<i>Echinochloa crus-galli</i>	S	S	S
Crabgrass, large	<i>Digitaria sanguinalis</i>	C	C	C
Foxtail, giant	<i>Setaria faberi</i>	S	S	S
Foxtail, green	<i>Setaria viridis</i>	S-C*	S-C*	S-C*
Foxtail, yellow	<i>Setaria pumila</i>	S	S	S

C = Control S = Suppression

¹Use Aatrex Liquid 480 Herbicide at a minimum of 0.56 kg ai per hectare.

²Use a product containing bromoxynil as the only active ingredient at a minimum of 0.28 kg ai per hectare.

Apply 100 mL per hectare for heavy weed pressure.

* Suppression at 75 mL/ha, control at 100 mL/ha

Rotational Crop Information

The following crop rotational crops may be planted after applying Tolpyralate 400 SC Herbicide at the labeled application rates as shown in the following table. If Tolpyralate is tank mixed with other products, follow the most restrictive crop's rotation interval.

Table 4. Time interval between Tolpyralate 400 SC Herbicide and replanting or planting of rotational crops

Crop	Replant/Rotational interval
Corn, sweet corn, seed corn and popcorn Wheat (spring, durum and winter) Barley Oat Rye (annual and fall)	Immediate
Alfalfa Bean, dry Bean, green (including seed production) Cabbage Canola, rapeseed Cotton Grass, grown for seed or forage Peas, field and edible Peanut Potato	9 months

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Crop	Replant/Rotational interval
Rice Snap beans Sorghum Soybean Cucurbits Sunflower Tomato	
Sugar beets	18 months
All other rotational crops	12 months