

GROUP 4 HERBICIDE

Traxos[®] Two Broadleaf Component

Emulsifiable Concentrate Herbicide

AGRICULTURAL

Traxos[®] Two Broadleaf Component provides postemergence control of a broad spectrum of broadleaf weeds including cleavers, kochia and wild buckwheat in spring wheat and durum wheat.

GUARANTEE:

Fluroxypyr, present as 1-methylheptyl ester 90 g a.e./L

2,4-D, present as 2-ethylhexyl ester..... 360 g a.e./L

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

CAUTION



POISON

SKIN IRRITANT

REGISTRATION NO.: **31673**
PEST CONTROL PRODUCTS ACT

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PAMPHLET

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. The user assumes the risk to persons or property that arises from any such use of this product.

FIRST AID

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

If swallowed: Call a poison control centre or doctor **IMMEDIATELY** for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

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 person to fresh air. If 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 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.

TOXICOLOGICAL INFORMATION

No specific antidote. Employ supportive care. Treatment should be based on judgement of the physician in response to reactions of the patient. This product may cause mild irritation to the eyes. Overexposure to 2,4-D may cause coughing, burning, dizziness or temporary loss of muscle coordination. Other possible effects of overexposure include fatigue, muscle weakness or nausea. Treat symptomatically. This product contains petroleum distillates. Vomiting may cause aspiration pneumonia.

PRECAUTIONS

HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH THE SKIN.

KEEP OUT OF REACH OF CHILDREN.

May irritate the skin. Avoid contact with skin. Avoid breathing spray mist.

PROTECTIVE CLOTHING AND EQUIPMENT

When mixing/loading, or during clean-up and repair, wear coveralls over a long-sleeved shirt,

long pants, protective eyewear (face shield or safety glasses), socks, shoes and chemical-resistant gloves. Rinse gloves before removal.

When applying, wear coveralls over a long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves. Rinse gloves before removal.

Gloves are not required during application when the applicator is in an enclosed tractor.

OPERATOR USE PRECAUTIONS

Wear freshly laundered clothing and clean protective equipment daily.

Rinse gloves before removal.

Wash hands with soap and water before eating, drinking, using tobacco or using the toilet.

If herbicide penetrates clothing, remove immediately; then wash thoroughly and put on clean clothing. Throw away clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate.

After using this product, remove clothing and launder separately, and promptly and thoroughly wash hands and exposed skin with soap and water. Follow manufacturer's instructions for cleaning personal protective clothing and equipment. If no such instructions for washables are provided, use detergent and hot water. Keep and wash personal protective equipment separate from household laundry.

After work, remove all clothing and shower immediately using soap and water.

PHYSICAL OR CHEMICAL HAZARDS. COMBUSTIBLE. Do not use or store near heat or open flame.

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., visit CropLife Canada's web site at www.croplife.ca.

ENVIRONMENTAL HAZARDS

Toxic to aquatic organisms, birds, small wild mammals and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE. This product contains an active ingredient and aromatic petroleum distillates which are toxic to aquatic organisms.

LEACHING

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.

RUNOFF

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

Avoid application of this product when heavy rain is forecast.

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

AGRICULTURAL CHEMICAL. Do not ship or store with food, feeds, drugs or clothing.

STORAGE

Store in original containers in a secure, dry heated storage. If product is frozen, bring to room temperature and agitate before use. Do not allow contamination of seeds, plants, fertilizers or other pesticides. Do not contaminate food, feedstuffs or domestic water supplies. If containers are damaged or spill occurs, use the product immediately or contain the spill with absorbent materials and dispose of waste.

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.

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 requirements.

Returnable Containers:

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

Refillable Containers:

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

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

GENERAL INFORMATION

TraxosTwo Broadleaf Component is a selective postemergence herbicide for the control of broadleaf weeds in spring wheat and durum wheat (not underseeded to legumes). TraxosTwo Broadleaf Component provides control of hard-to-kill annual broadleaf weeds such as cleavers, wild buckwheat and kochia (including populations resistant to Group 2 herbicides). The components of TraxosTwo Broadleaf Component move within the plant to control exposed and underground plant tissues. It mimics naturally occurring plant hormones which control weeds by disrupting normal plant growth patterns. Symptoms of effect include epinasty (twisting of the stems) and swollen nodes.

GENERAL USE PRECAUTIONS

READ THE ENTIRE LABEL BEFORE USE. FAILURE TO FOLLOW LABEL INSTRUCTIONS MAY RESULT IN ERRATIC WEED CONTROL OR CROP DAMAGE. DO NOT APPLY TO CROPS UNDERSEEDDED WITH LEGUMES.

To minimize spray drift to non-target areas:

1. Minimize drift by using sufficient spray volume to ensure coverage with ASAE coarse droplet size spray.
2. Keep ground-driven spray booms as low as possible and not exceeding 60 cm above the target surface.
3. Spray when wind is less than 8 km/hr.
4. Do not spray in dead calm near sensitive plants. The "cloud" of suspended droplets may drift onto sensitive plants when the wind comes up. Spray only when wind is blowing away from a sensitive crop, shelterbelt or garden.

Apply only when the potential for drift to areas of human habitation or areas of 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.

Extreme growing conditions such as drought or near freezing temperatures prior to, at and following time of application may reduce weed control and increase the risk of crop injury at all stages of growth.

Wet foliage at the time of application may result in reduced weed control.

Over-application may result in crop injury.

Make only 1 application per year.

Do not apply through any type of irrigation system.

Restricted Entry Interval (REI):

All crops—12-hour REI

Equipment Clean-Up:

Equipment used to apply TraxosTwo Broadleaf Component should not be used to apply other pesticides to sensitive crops without thorough cleaning. To avoid subsequent injury to crops other than cereals, all spraying equipment must be thoroughly cleaned both inside and out, as follows:

1. Immediately after spraying, drain. Any contamination on the outside of the spraying equipment should be removed by washing with clean water.
2. Rinse inside of tank with clean water and flush through booms and hoses using at least one tenth of the spray tank volume. Drain tank completely.
3. Add 1 L of household ammonia (containing a minimum of 3 % ammonia) per 100 L of water while filling the tank with clean water. Agitate and then briefly flush the boom and hoses with the cleaning solution. Top up with water making sure the tank is completely full and allow to stand for 15 minutes with agitation. Flush the boom and hoses and drain tank completely.
4. Remove nozzles and screens and clean separately with an ammonia solution (100 mL in 10 L water).
5. Rinse the tank with clean water and flush through the boom and hoses using at least one tenth of the spray tank volume. Drain tank completely.

Note: If it is not possible to drain the tank completely, step 3 must be repeated before going onto step 4.

Caution: Do not use ammonia with chlorine bleach. Using ammonia with chlorine bleach will release a gas with a musty chlorine odour which may cause eye, nose, throat, and lung irritation. Do not clean equipment in an enclosed area.

SENSITIVE PLANTS

Do not apply TraxosTwo Broadleaf Component directly to, or otherwise permit it to come in direct contact with susceptible crops or desirable plants including alfalfa, edible beans, canola, flowers and ornamentals, lentil, lettuce, peas, potatoes, radishes, soybeans, sugar beets, sunflowers, tomatoes or tobacco.

CROP ROTATIONS

Fields previously treated with TraxosTwo Broadleaf Component can be seeded the following year to alfalfa, barley, canola, corn, dry beans, flax, forage grasses, lentils, mustard, oats, peas, potatoes, rye, soybeans, sugar beets, sunflowers and wheat or fields can be summerfallowed.

PRE-HARVEST/GRAZING INTERVALS

- Do not permit lactating dairy animals to graze fields within 7 days after application.
- Do not harvest forage or cut hay within 30 days after application.
- Withdraw meat animals from treated fields at least 3 days before slaughter.
- Do not harvest the treated mature crop within 60 days after application.

Tank Mixtures:

In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or increased host crop injury. The user should contact Syngenta Canada Inc. at 1-87-SYNGENTA

(1-877-964-3682) for information before mixing any pesticide or fertilizer that is not specifically recommended on this label. The user assumes the risk of losses that result from the use of tank mixes that do not appear on this label or that are not specifically recommended by Syngenta Canada Inc.

DIRECTIONS FOR USE

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

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

Field sprayer application

DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) coarse classification. Boom height must be 60 cm or less above the crop or ground.

Aerial application

DO NOT apply during periods of dead calm. 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 spray droplets smaller than the American Society of Agricultural Engineers (ASAE) coarse classification. To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing or rotorspan.

TraxosTwo Broadleaf Component ALONE

Apply TraxosTwo Broadleaf Component in a uniform spray with ground or aerial application equipment (see Application Directions sections) containing 1.1 L/ha of TraxosTwo Broadleaf Component.

Timing of Application

Apply postemergence when weeds are in the seedling stage (2-4 leaf, unless otherwise noted), and actively growing, and when spring wheat and durum wheat are in the 4-leaf to flag-leaf stage. Application before the 4-leaf stage of wheat may cause severe twisting of leaves and leaf, stem and head deformities which may reduce yield up to 10%. Do not apply later than the flag-leaf stage. Maximum 1 application per year.

Crops Registered

Spring wheat
Durum wheat

Weeds Controlled

bluebur	hoary cress*	stinkweed
burdock	kochia**	sunflower (annual)
canola (volunteer)	lamb's-quarters	vetch
cleavers (1-8 whorls)	mustards (except green tansy, dog & grey tansy)	wild buckwheat (1-6 leaf)
clovers (sweet)	plantain	wild radish
cocklebur	prickly lettuce	volunteer flax (1-12 cm)
flixweed	ragweed	
field horsetail*	round-leaved mallow (1-6 Leaf)	
goat's-beard	shepherd's-purse	
hemp-nettle (2-6 leaf stage)	stork's-bill (1-8 leaf)	

Weeds Suppressed

common chickweed** (up to 8 cm) redroot pigweed sow-thistle (perennial) *

* Top growth control only.

** Including biotypes resistant to Group 2 herbicides that inhibit the ALS enzyme.

NOTE: TraxosTwo Broadleaf Component activity is influenced by weather conditions. Optimum activity requires active crop and weed growth. The temperature range for optimum activity is 12°C to 24°C. Reduced activity will occur when temperatures are below 8°C or above 27°C. Frost before application (3 days) or shortly after (3 days) may reduce weed control and crop tolerance. Weed control may be reduced during stress conditions, e.g. drought, heat or cold stress, or if weeds have initiated flowering, or if heavy infestations exist.

APPLICATION DIRECTIONS (GROUND AND AERIAL APPLICATIONS)**(1) Ground Application**

Using ground equipment, apply TraxosTwo Broadleaf Component alone or with tank mix partners as a broadcast treatment. Apply TraxosTwo Broadleaf Component alone at the recommended rates in a spray volume of 30-100 L water/ha. When tank mixing refer to the label of the tank mix partner label for additional instructions, water volumes, precautions and weeds controlled.

(2) Aerial Application**Do not use human flaggers.**

Use TraxosTwo Broadleaf Component alone or tank mixed with a product registered for aerial application as a broadcast treatment. Apply in a spray volume of 30-50 L water/ha. Refer to the tank mix partner label for additional instructions, precautions and weeds controlled.

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 swath marking devices.

Use Precautions

Apply only when meteorological conditions at the treatment site allow for complete and even coverage. Apply only under 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 should be laundered regularly.

Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call Syngenta Canada Inc. at 1-877-964-3682 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:

- The interaction of many equipment-and-weather-related factors determine the potential for spray drift. Users are responsible for considering all these factors when making decisions.
- The following drift management requirement must be followed to avoid off-target drift movement from aerial applications: Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

TANK-MIX OF TRAXOSTWO BROADLEAF COMPONENT WITH 2,4-D ESTER HERBICIDE

To control or suppress the following additional weeds apply a uniform spray containing 1.1 L/ha of TraxosTwo Broadleaf Component and 140 g a.e./ha of 2,4-D ester herbicide (equivalent to 0.2 L/ha of 2,4-D LV 700) in a total spray volume of 50-100 L water/ha for ground application and in a total spray volume of 30-50 L water/ha for aerial application.

Additional Weeds Controlled

blue lettuce*	hairy galinsoga	Russian thistle
dandelion**	hedge bindweed	smartweed
docks	lady's-thumb	tansy mustard
dog mustard	leafy spurge*	tartary buckwheat
field bindweed*	oak-leaved goosefoot	wild buckwheat (1-8 leaf)
field peppergoatgrass	redroot pigweed	
gumweed		

Additional Weeds Suppressed

common chickweed*** (up to 8 cm) sow-thistle (perennial) ♦
 Canada thistle♦ sow-thistle (annual)

♦ Top growth control only.

♦♦ Spring rosettes.

♦♦♦ Including biotypes resistant to Group 2 herbicides that inhibit the ALS enzyme.

Mixing Instructions

1. Fill sprayer tank 1/2 full of water.
2. Start sprayer tank agitation.
3. Add the required number of jugs of TraxosTwo Broadleaf Component.
4. If required, add the required number of jugs of 2,4-D ester herbicide.
5. Complete filling the sprayer tank with sufficient water to spray 100 L of spray mixture per hectare.
6. Follow sprayer directions and precautions as outlined above, especially when applying next to sensitive crops (e.g., canola and legumes).
7. Follow sprayer clean-up directions as listed.

BUFFER ZONES

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer and spot treatment.

The 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), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of application	Crop		Buffer Zones (metres) Required for the Protection of:				Terrestrial habitat
			Freshwater Habitat of Depths:		Estuarine/marine Habitat of Depths:		
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer	spring wheat and durum wheat (TraxosTwo Broadleaf Component alone or with tank-mix with 140 g a.e./ha 2,4-D ester herbicide)		1	0	1	0	1
Aerial	spring wheat and durum wheat (TraxosTwo Broadleaf Component alone)	Fixed Wing	1	0	1	0	50
		Rotary Wing	1	0	1	0	45
	spring wheat and durum wheat (TraxosTwo Broadleaf Component with tank-mix with 140 g a.e./ha 2,4-D ester herbicide)	Fixed Wing	5	0	1	0	50
		Rotary Wing	2	0	1	0	45

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) 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.

NOTE: Applicators may recalculate a site-specific buffer zone by combining information on current weather conditions and spray configuration for the following applications: all airblast applications, and for field and aerial applications which specify the following droplet size category wording on the product label: 'DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) [Fine or Medium or Coarse] classification.' To access the Buffer Zone Calculator, please visit the Pest Management Regulatory Agency web site.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, TraxosTwo Broadleaf Component is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to TraxosTwo Broadleaf Component and other Group 4 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 TraxosTwo Broadleaf Component or other Group 4 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 with herbicides 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 company representatives at 1-877-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.

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