

2007-8097 16-Feb-2010

[Carton Label]



GROUP

2

HERBICIDE

NUANCE™ herbicide

A Dry Flowable 75% Herbicide

FOR SALE FOR USE IN THE PRAIRIE PROVINCES AND THE PEACE RIVER REGION OF BRITISH COLUMBIA ON WHEAT (SPRING AND DURUM), BARLEY, SUMMER FALLOW, AND AS A PRESEEDING HERBICIDE ON FIELDS TO BE PLANTED TO WHEAT (SPRING AND DURUM) AND BARLEY, ONLY

WETTABLE GRANULES

AGRICULTURAL

GUARANTEE: Tribenuron-methyl 75%

REGISTRATION NO.: **29468**
PEST CONTROL PRODUCTS ACT

WARNING: CONTAINS THE ALLERGENS MILK AND SULFITES

CAUTION – EYE AND SKIN IRRITANT

READ THE LABEL AND ENCLOSED BOOKLET BEFORE USING

DO NOT SELL WATER SOLUBLE BAGS SEPARATELY.

**IN CASE OF A MEDICAL EMERGENCY, CALL TOLL FREE,
DAY OR NIGHT: 1-866-303-6950**

Cheminova Canada Inc.
22499 Jefferies Road, Unit C2,
Kilworth, Ontario N0L 1R0
Canada
1-888-316-6260

NET CONTENTS:

NUANCE™ is a trademark of Cheminova

PRECAUTIONS:

- **KEEP OUT OF REACH OF CHILDREN.**
- CAUTION: EYE AND SKIN IRRITANT

- DO NOT APPLY BY AIR.
- MAY BE HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN.

- AVOID CONTACT WITH SKIN, EYES AND CLOTHING.
- DO NOT CONTAMINATE ANY BODY OF WATER
- WEAR SUITABLE CHEMICAL RESISTANT GLOVES AND GOGGLES OR FACE SHIELD DURING MIXING AND LOADING.
- MAY IRRITATE SKIN AND EYES. WHEN USING, DO NOT EAT, DRINK OR SMOKE.
- WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING. REMOVE CONTAMINATED CLOTHING IMMEDIATELY AFTER USE.

NOTE: 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 website at www.croplife.ca.

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

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.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention. For medical emergencies call 1-866-303-6950.

TOXICOLOGICAL INFORMATION: Treat symptomatically.

STORAGE:

Store product in original container in a secure, dry area, away from fertilizer, seed, food or feed. Not for use or storage in or around the home. Keep container tightly closed. Keep water soluble bags in original outer bag away from moisture.

DISPOSAL:

1. Make the empty container unsuitable for further use.
2. Dispose of the container in accordance with provincial requirements.
3. 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.

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.

[Booklet]



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Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention. For medical emergencies call 1-866-303-6950.

TOXICOLOGICAL INFORMATION: Treat symptomatically.

IMPORTANT INFORMATION - READ BEFORE USING

Injury to or loss of desirable trees, shrubs, flowers, vegetables, fruits or other vegetation may result from failure to observe the following: Do not apply, drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. Do not use on lawns, walks, driveways, tennis courts, or similar areas. Prevent drift of spray to desirable plants. Do not contaminate any body of water, including irrigation water that may be used on crops.

DO NOT APPLY BY AIR.

Do not apply in high winds.

Carefully observe sprayer clean-up instructions, as spray tank residue may damage crops other than spring wheat, durum or barley. Thoroughly clean all traces of tank mix from application equipment immediately after use. Flush tank, pump, hoses, and boom with several changes of water after removing nozzle tips and screens (clean these parts separately). Wash away any spray mixture from the outside of spray tank, nozzle or spray rig.

A MINIMUM RECROPPING INTERVAL OF 2 MONTHS SHOULD BE LEFT BETWEEN THE APPLICATION OF THIS PRODUCT AND SEEDING OF THE NEXT CROP. After 2 months, the following crops can be seeded: canola, flax, lentils, alfalfa.

DO NOT APPLY **NUANCE herbicide** WITH A CARRIER OTHER THAN WATER OR ANY ADDITIVE OTHER THAN THOSE INDICATED ON THIS LABEL. Other carriers may accelerate breakdown of this product and reduce its effectiveness.

DIRECTIONS FOR USE

GENERAL INFORMATION

NUANCE herbicide provides control of certain broad-leaved weeds in spring planted wheat (including durum) and barley.

Warm, moist growing conditions promote active weed growth and enhance the activity of **NUANCE herbicide** by allowing maximum foliar uptake and contact activity. Weeds hardened off by environmental stress such as cold weather, drought stress or excessive heat may not be adequately controlled or suppressed, and regrowth may occur. **NUANCE herbicide** may only be applied using ground spray equipment. For best results, ensure thorough spray coverage of target weeds.

NUANCE herbicide rapidly stops growth of susceptible weeds. However, typical symptoms (discolouration) of dying weeds may not be noticeable for 1 to 3 weeks after application, depending on growing conditions and weed susceptibility. Degree of control and duration of effect depend on weed sensitivity, weed size, spray coverage and growing conditions. Activity of the herbicide mixture may be delayed by cold, dry conditions after application.

FOR WEED CONTROL IN SPRING WHEAT (INCLUDING DURUM) AND BARLEY

NUANCE herbicide + 2,4-D Ester Tank Mix

Apply **NUANCE herbicide** at 10 grams per hectare with 2,4-D Ester at 420 grams acid equivalent per hectare (0.6 L/ha 2,4-D ester LV-700).

WEEDS CONTROLLED

Annual sunflower
Ball mustard
Canada thistle (top growth control)
Cow cockle
Flixweed (fall rosettes and spring seedlings)
Hare's-ear mustard
Indian mustard
Kochia (2-10 leaf)
Lamb's-quarters
Narrow-leaved hawk's-beard (fall rosettes and spring seedlings)
Prickly lettuce
Redroot pigweed
Russian pigweed

Russian thistle
 Shepherd's-purse (fall rosettes and spring seedlings)
 Stinkweed (fall rosettes and spring seedlings)
 Sweetclover
 Thyme-leaved spurge
 Tumble mustard
 Wild mustard
 Wild radish
 Wormseed mustard

WEEDS SUPPRESSED

Wild buckwheat*

* Weed suppression is a visual reduction in weed competition (reduced population or vigour) as compared to an untreated area. Degree of suppression will vary with size of weed and environmental conditions prior to and following treatment.

WHEN TO APPLY

Apply the tank mix from the full 3-leaf stage to just before the flag leaf (shot blade) stage of wheat (including durum) and barley, prior to head emergence. Do not apply after head has emerged.

For best results apply to young, emerged actively growing weeds that are less than 10 cm tall or across, and before the crop canopy closes. Weeds that emerge after treatment will not be controlled.

For wild buckwheat, apply to ACTIVELY GROWING wild buckwheat in the 1 to 3 leaf stage. Under dry conditions, suppression may be reduced. Plants larger than the 3 leaf stage may regrow after treatment.

NOTE: If rain occurs soon after application control may be reduced. At least 4-6 hours of dry weather is needed to allow **NUANCE herbicide** to be absorbed by weed foliage. Environmental conditions that slow the drying of the spray mixture on the foliage such as high relative humidity, cool air temperatures or cloud cover, may increase the time required.

NUANCE herbicide + 2,4-D ESTER + ASSERT* TANK MIX

For control of WILD OATS and control or suppression of broadleaf weeds in spring (including durum) wheat and barley, apply the tank mix as follows:

TANK MIX PARTNER	RATE
NUANCE herbicide	10 g/ha
ASSERT*	1.3 to 1.6 L/ha
2,4-D Ester LV-700	0.6 L/ha

Use the low rate of ASSERT* when the majority of wild oats are in the 1 to 3-leaf stage and the higher rate if wild oats are in the 4-leaf stage. Apply when the crop is in the full 3-leaf stage.

NUANCE herbicide + 2,4-D ESTER + PUMA*120 SUPER TANK MIX:

For control of GREEN FOXTAIL (WILD MILLET) and control or suppression of broadleaf weeds in spring (including durum) wheat and barley, apply the tank mix as follows:

TANK MIX PARTNER	RATE
NUANCE herbicide	10 g/ha
PUMA* 120 SUPER	385 mL/ha
2,4-D Ester LV-700	0.6 L/ha

Apply this tank mix from the full 3-leaf stage to the 6-leaf + 3 tiller stage of wheat (including durum) and the full 3-leaf stage to the 5-leaf + 2 tiller stage of barley.

For green foxtail control, apply at the 1-6 leaf (up to emergence of the 3rd tiller) stage.

FOR WEED CONTROL IN SPRING WHEAT (EXCLUDING DURUM) AND SPRING BARLEY

NUANCE herbicide + 2,4-D ESTER + BANVEL* Herbicide or BANVEL* II Herbicide TANK MIX:

For control of sulfonylurea resistant KOCHIA and control or suppression of broadleaf weeds on the **NUANCE herbicide** label in spring (excluding durum) wheat and barley, apply the tank mix as follows:

TANK MIX PARTNER	RATE
NUANCE herbicide	10 g/ha
BANVEL* or BANVEL* II HERBICIDE	110 mL/ha
2,4-D Ester LV-700 (or acid equivalent)	0.6 L/ha (or 420 g/ha acid equivalent)

Apply the tank mix from the full 3-leaf stage to the 6-leaf + 3 tiller stage of wheat (excluding durum) and barley and to kochia plants that are 2.5 – 10 cm in height. Expect superior results when kochia is small.

NUANCE herbicide + LEXONE® DF HERBICIDE (METRIBUZIN) + MCPA AMINE TANK MIX:

Apply **NUANCE herbicide** at 10 grams per hectare tank mixed with LEXONE* DF Herbicide at 134 grams per hectare and MCPA Amine 500 at 0.56 L/ha.

WEEDS CONTROLLED

Canada thistle (top growth control)
Common chickweed (including sulfonylurea tolerant populations)
Hemp-nettle
Lamb's-quarters
Stinkweed
Volunteer canola
Wild mustard

WEEDS SUPPRESSED

Annual sow thistle*
Wild buckwheat*

* Weed suppression is a visual reduction in weed competition (reduced population or vigour) as compared to an untreated area. Degree of suppression will vary with size of weed and environmental conditions prior to and following treatment.

WHEN TO APPLY

Apply from the full 3-leaf stage to 5-leaf stage of spring wheat (excluding durum) and spring barley. Do not apply after heads have emerged. Do not use on the Klondike variety of barley. Crop must be planted 5 cm deep and not underseeded to forages.

For best results apply to young, emerged actively growing chickweed that is less than 10 cm tall or across and before the crop canopy closes. Weeds that emerge after treatment will not be controlled.

NOTE: If rain occurs soon after application control may be reduced. At least 4-6 hours of dry weather is needed to allow the tank mixture to be absorbed by weed foliage. Environmental conditions that slow the drying of the spray mixture on the foliage such as high relative humidity, cool air temperatures or cloud cover, may increase the time required.

Do not apply within 60 days of harvest. Do not graze or feed crop to livestock within 30 days of application.

FOR CONTROL OF FLIXWEED AND STINKWEED (FALL ROSETTES AND SPRING SEEDLINGS) IN SUMMERFALLOW

With any summerfallow treatment, allow 10 days to elapse between treatment and tillage. Only weeds emerged at time of application will be controlled.

NUANCE herbicide + 2,4-D ESTER TANK MIX:

Apply **NUANCE herbicide** at 10 g/ha with 2,4-D Ester at 420 g/ha (0.6 L 2,4-D Ester LV-700).

Apply the tank mix in the spring after emergence, up to the early flowering stage of the target weeds.

Only weeds that have emerged at the time of application will be controlled.

CONTROL OF BROADLEAF WEEDS AND GRASSES IN FALLOW AND PRE-SEED TO SPRING WHEAT (INCLUDING DURUM) AND BARLEY.

With any summerfallow treatment, allow 10 days to elapse between treatment and tillage. Only weeds emerged at time of application will be controlled.

Fields treated with **NUANCE herbicide** can be seeded to spring wheat (including durum) or barley a minimum of 24 hours after application.

Apply NUANCE herbicide at 10 grams per hectare, tank mixed with one of the following companion herbicides and adjuvant (where required) in a total spray volume of 55-110 L/ha.

Companion Herbicide	Application Rate	Application Stage	Weeds Controlled	Weeds Suppressed *
GLYFOS®	1.25 L/ha	Up to 8 cm	Canada fleabane, Common ragweed, Narrow-leaved hawk's beard	
CHEMINOVA GLYPHOSATE™	1.25 L/ha			
Roundup* Transorb	1.25 L/ha			
Roundup* Weathermax	0.83 L/ha			

Roundup* Dry	450 g ae/ha**			
Touchdown* 600	1.0 L/ha			
Touchdown* iQ	1.25 L/ha			
		Up to 15 cm	Dandelion, Downy brome, Flixweed Giant foxtail, Green foxtail, Hemp nettle, Kochia, Lady's thumb, Lamb's-quarters, Persian dandel, Redroot pigweed, Russian thistle, Stinkweed, Volunteer barley, Volunteer canola (including glyphosate-tolerant varieties), Volunteer flax, Volunteer wheat, Wild mustard, Wild oats	
		Up to 3-leaf	Wild buckwheat, Cow cockle	
		Rosette		Canada thistle
GLYFOS®, CHEMINOVA GLYPHOSATE™, Roundup* Original or Roundup* Transorb, plus Agral* 90	0.75 L/ha 0.35% v/v	Any stage	Volunteer canola (including glyphosate tolerant varieties)	Narrow-leaved hawk's beard
		Seedlings and rosettes (nonflowering)		Redroot pigweed, Russian thistle
		Up to 10cm	Kochia, Lamb's-quarters,	
		Up to 8 cm	Green foxtail, Lady's thumb, Stinkweed, Volunteer barley, Volunteer wheat, Wild mustard, Wild oats (1-3- leaf) Wild buckwheat (1-3 leaf)	
GLYFOS, CHEMINOVA GLYPHOSATE, Roundup	1.0 L/ha 0.35 % v/v	Rosettes (nonflowering)	Dandelion (top growth)	Canada thistle (top growth)

Original or Roundup Transorb, plus Agral 90				
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*Weed suppression is a visual reduction in weed competition (reduced population or vigour) as compared to an untreated area. Degree of suppression will vary with size of weed and environmental conditions prior to and following treatment.

** Roundup Dry* is expressed as rate of active per hectare, rather than rate of product per hectare.

Fields treated with **NUANCE herbicide** + GLYFOS, CHEMINOVA GLYPHOSATE, Roundup* or Touchdown* can be seeded with spring wheat (including durum) or barley a minimum of 24 hours after application.

MIXING INSTRUCTIONS:

1. Add one-third of the necessary volume of water to the spray tank.
2. With the agitator running, add the required number of **NUANCE herbicide** water soluble bags.
3. When **NUANCE herbicide** is in suspension, add the required amount of the appropriate tank mix partners.
4. Specific Tank Mix Instructions:

NUANCE herbicide + 2,4-D Ester: once **NUANCE herbicide** is completely in suspension, add the required amount of 2,4-D Ester while maintaining agitation. Do not add a surfactant.

NUANCE herbicide + 2,4-D Ester + ASSERT* Herbicide: once **NUANCE herbicide** is completely in suspension, add the required amount of Spray Water pH Adjuster and agitate until dissolved. Add the required amount of ASSERT* Herbicide while maintaining agitation. Add 2,4-D Ester. Addition of a surfactant is not required.

NUANCE herbicide + 2,4-D Ester + BANVEL* Herbicide or BANVEL* II Herbicide: add 2,4-D Ester last. A surfactant is not required with this mixture.

NUANCE herbicide + 2,4-D Ester + PUMA*120 SUPER Herbicide: add the required amount of PUMA* 120 SUPER Herbicide last. A surfactant is not required with this mixture.

NUANCE herbicide + GLYFOS, CHEMINOVA GLYPHOSATE, Roundup* Original or Roundup* Transorb* or Roundup* Dry or Roundup* Weathermax or Touchdown* iQ or Touchdown* 600: Add the required amount of GLYFOS, CHEMINOVA GLYPHOSATE, Roundup* Original or Roundup* Transorb* or Roundup* Dry or Touchdown* 600 while maintaining agitation. Once components are in suspension, if required, add AGRAL* 90 at 3.5 L per 1000 L of spray solution (0.35% v/v).

5. Add the rest of the water. If an antifoam agent is required, add this last.
6. Use a minimum spray volume of 55 L/ha.
7. For repeat tank loads, reduce the material remaining in the tank to 10% of the original volume or less before proceeding with step 1. If this is not possible, pre-slurry **NUANCE herbicide** in a small amount (5-10 L) of water before adding to the tank.

Continuous agitation is required to keep **NUANCE herbicide** in suspension. If the spray preparation is left standing without agitation, thoroughly agitate to resuspend the mixture before spraying. Use spray preparation within 24 hours or product degradation may occur.

NOTE: Do not mix the soluble bags with liquid fertilizers, substances that contain boron or substances that release free chlorine. Mixing the water soluble bags with any of these compounds will result in an insoluble substance in the tank.

MINIMUM RECROPPING INTERVAL AND CROP ROTATION GUIDELINES:

A minimum recrop interval of 2 months should be left between the application of this product and seeding of the next crop. The following crops can be seeded two months after application of **NUANCE herbicide + 2,4-D Ester**: canola, flax, lentils, and alfalfa. Do not plant any crop other than spring wheat or barley in the season when the **NUANCE herbicide + LEXONE DF Herbicide + MCPA** tank mix is applied.

EQUIPMENT-SPRAY VOLUMES:

Apply the spray mixture uniformly with properly calibrated ground equipment only. Ensure thorough coverage and a uniform spray pattern. Flat fan nozzles are recommended (minimum 55 litres spray volume per hectare). Use 50 mesh filter screens or larger (metal or nylon).

Continuous agitation is required to keep the spray materials in suspension. Apply uniformly and avoid overlapping. Shut off spray boom while starting, turning, slowing or stopping to prevent crop injury from over application. Reduce drift with high water volume, low pressure, coarse sprays and drop nozzles.

SPRAYER CLEANUP:

It is difficult to remove all traces of 2,4-D Ester and MCPA Amine from a sprayer. A sprayer used to apply these herbicides should not be used to spray crops sensitive to these herbicides. The following clean-out procedure will remove traces of **NUANCE herbicide**, LEXONE* DF Herbicide, GLYFOS, CHEMINOVA GLYPHOSATE, Roundup* formulations and Touchdown* 600 from the sprayer.

1. Drain tank; then flush tank, boom and hoses with clean water for a minimum of ten minutes to remove all visible residues.
2. Fill the tank with clean water then add 1 litre household AMMONIA (containing a minimum of 3% ammonia) per 100 litres of water. Fill boom and hoses with solution and allow sprayer to sit for 15 minutes. Drain.
3. Repeat step 2.
4. Nozzles and screens should be removed and cleaned separately. To remove traces of ammonia, rinse the tank, hoses and booms thoroughly with clean water.
5. Dispose of tank rinseate according to Provincial directions.

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

RESISTANCE-MANAGEMENT RECOMMENDATIONS:

For resistance management, **NUANCE herbicide** is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to **NUANCE herbicide** and other Group 2 herbicides. The resistance 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 **NUANCE herbicide** or other Group 2 herbicides with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from 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 Cheminova at 1-888-316-6260 for further information

USE PRECAUTIONS:

Licensed wheat and barley varieties have shown acceptable tolerance to **NUANCE herbicide**. Consult Cheminova Canada Inc. prior to use on unlicensed varieties for crop tolerance information.

Do not apply to irrigated land where tail water will be used to irrigate other crop land.

Do not contaminate irrigation water.

Use a maximum of 10 grams of **NUANCE herbicide** per hectare per year.

Do not use on highly variable soils that have large gravelly or sandy areas, eroded knolls or calcium deposits.

NUANCE herbicide applied to spring wheat, durum wheat or barley that is stressed by severe conditions such as drought, low fertility, saline soils, waterlogged soils (soils at or near field capacity), disease or insect damage may result in crop injury. Drought, disease or insect damage following application may also result in crop injury, grade or yield loss.

Do not apply to spring wheat, durum wheat or barley undersown with legumes or grasses as injury to the forage may result.

Do not remove soil from treated fields for use on lawns, in gardens or for backfill.

Under certain conditions such as prolonged cool weather temperature or wide fluctuations in day/night temperatures just prior to or soon after treatment, temporary yellowing and/or crop stunting may occur.

OVERSPRAY OR DRIFT TO IMPORTANT WILDLIFE HABITATS SUCH AS SHELTERBELTS, WETLANDS, SLOUGHS OR DRY SLOUGH BORDERS, OR WOODLOTS, SHOULD BE AVOIDED. LEAVE A 15 METER BUFFER ZONE BETWEEN THE LAST SPRAY SWATH AND THE EDGE OF ANY OF THESE HABITATS.

Control of weeds growing in wheel tracks may be reduced if **NUANCE herbicide** is applied under dry, dusty conditions.

STORAGE:

Store products in original containers only, away from fertilizer, seeds, food or feed. Not for use or storage in or around the home. Keep container closed. Keep water soluble bags in original outer bag away from moisture.

DISPOSAL:

1. Make the empty container unsuitable for further use.
2. Dispose of the container in accordance with provincial requirements.
3. 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.

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