

2007-7690
30-NOV-2007

((BOOKLET))

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| GROUP | 2 | HERBICIDE |
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ASSERT® SG

HERBICIDE

**(FOR SALE FOR USE IN PRAIRIE PROVINCES & PEACE RIVER REGION
OF BRITISH COLUMBIA)**

AGRICULTURAL

GUARANTEE: imazamethabenz-methyl 67%

REGISTRATION NO. 25618 PEST CONTROL PRODUCTS ACT

CAUTION POISON

IN CASE OF EMERGENCY ENDANGERING LIFE OR PROPERTY
INVOLVING THIS PRODUCT, CALL DAY OR NIGHT
1-800-454-2673

DANGER - CORROSIVE TO EYES
KEEP OUT OF REACH OF CHILDREN

READ THE LABEL AND BOOKLET BEFORE USING

NET CONTENTS: 0.5-100 kg

NUFARM AGRICULTURE INC.
5507 FIRST STREET SE
CALGARY AB
T2H 1H9

ASSERT® is a registered trademark of BASF.

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN.

MAY BE HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH THE SKIN.

DO NOT CONTAMINATE FOOD OR FEED PRODUCTS.

DO NOT GET IN EYES, AVOID CONTACT WITH SKIN AND CLOTHING.

AVOID BREATHING VAPOUR OR SPRAY MIST.

CORROSIVE TO EYES.

May cause skin irritation.

Use with adequate ventilation.

Wear dust and/or splash-proof goggles or face shield and chemically resistant gloves and a long sleeved shirt and long legged pants or coveralls and rubber boots when handling.

Wash thoroughly with soap and water after handling.

Wash all protective clothing separately from normal laundry in detergent and hot water before reuse.

Wash protective eye wear upon removal with soapy water.

When using do not eat, drink or smoke.

Take a shower immediately after work.

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.

FIRST AID:

In case of skin or clothing contact, 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.

In case of eye contact, 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 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 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.

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

TOXICOLOGICAL INFORMATION: Treat symptomatically.

STORAGE:

Keep containers closed to avoid spills and contamination.

DO NOT mix or store in unlined containers.

DO NOT contaminate any body of water by cleaning of equipment or disposal of wastes.

DISPOSAL:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on the 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.

WARNINGS:

DO NOT APPLY BY AIR. APPLY WITH GROUND EQUIPMENT ONLY.

DO NOT make more than one application of ASSERT per growing season.

DO NOT apply ASSERT to the same field in two successive years.

DO NOT spray ASSERT if rain is predicted within 6 hours.

DO NOT spray ASSERT when freezing temperatures are forecast.

DO NOT graze treated fields or cut treated forage for silage or hay; there are not sufficient data are not available to support such use. (Barley, Wheat grain or straw from fields treated with ASSERT can be fed to livestock.)

AVOID APPLICATIONS OF ASSERT WITHIN 15 METRES OF WATER BODIES.

MIXING:

Fill the spray tank 3/4 full with clean water. Add required quantity of ASSERT herbicide while agitating. When ASSERT is thoroughly mixed fill remainder of tank with water while agitating. To ensure thorough mixing circulate the spray mixture in the tank for 5 minutes before spraying begins.

INSTRUCTIONS FOR TANK-MIXING:

Fill tank one-half to three-quarters full with clean water and start agitating.

Add ASSERT herbicide first* to the partially filled tank while agitating.

Add the broadleaf herbicide when tank is three-quarters filled while agitating.

Add the required amount of surfactant to the tank.

Fill tank and agitate, or, recycle for at least five minutes before spraying to ensure thorough mixing.

Continue agitation until spraying is completed.

* For REFINE EXTRA tank-mixing instructions see page 5.

SPRAYER INFORMATION:

Flat fan spray tips are recommended.

Pressure at nozzle tips should be 275 kPa, lower pressures may result in poor control.

Wash sprayer after spraying.

PRAIRIE PROVINCES and PEACE RIVER REGION OF BRITISH COLUMBIA ONLY

DIRECTIONS FOR USE IN CEREALS

ASSERT, a selective postemergence herbicide for use in cereals, is absorbed through the foliage and roots of wild oat plants and other susceptible weeds. Susceptible plants stop growing soon after spray application. Obvious signs of plant death may not be seen in some plants until 2 weeks later but the competitive effect of these plants will have been removed. Death may not occur for several weeks.

WILD OAT CONTROL

ASSERT herbicide used alone and in combination should only be applied when the majority of WILD OAT plants are at the 1-4 leaf stage of growth.

BROADLEAF WEED CONTROL

ASSERT herbicide used alone and applied at the cotyledon to six (6) leaf stage of weed growth will control:

WILD MUSTARD
STINKWEED

ASSERT herbicide used alone and applied at the cotyledon to four (4) leaf stage of weed growth provides partial control of and reduces competition from:

WILD BUCKWHEAT
TARTARY BUCKWHEAT

CROPS

ASSERT herbicide may be used either alone or in tank-mix combinations on:

Spring Wheat, Durum Wheat.
- Spring Barley.

ASSERT may cause initial yellowing and temporary stunting on durum wheat but the crop will

recover under normal growing conditions and yield will not be affected.

Application can be made up to and including the 6-leaf stage of the crop (before the flag leaf).

RATES

Spring Wheat, Durum Wheat and Spraing Barley

1 to 4 leaf stage of wild oats: Apply 597 grams of product (400 g active) in 100 litres spray per hectare if majority of wild oats are in the 1-3 leaf stage.

Use 746 grams of product (500 g active) if wild oats are in the 4 leaf stage.

NOTE: A non-ionic surfactant (AGRAL 90(1), AGSURF(2) or SURF(3) at the rate of 0.25% (v/v) MUST BE ADDED to the spray solution (e.g., 2.5 L of surfactant per 1000 L of spray solution), or MERGE(4) at the rate of 0.5% (v/v).

TANK-MIXES: spring wheat, durum wheat and spring barley

For fields which contain weeds other than those listed under ASSERT alone, tankmixing may be required to provide broad spectrum weed control. Use ONLY those herbicides listed below.

In order to ensure optimum herbicide broadleaf weed control, follow the label recommendations of the broadleaf herbicide to be used with ASSERT herbicide. Follow the most restrictive precautions, directions, and recropping/rotation limitations that appear on both the labels of the products involved.

Select the proper ASSERT herbicide application rate given on this label.

READ AND OBSERVE ALL RATES, TIMINGS, MIXING INSTRUCTIONS, PRECAUTIONS AND RESTRICTIONS ON THE LABEL OF THE TANKS MIX PARTNER.

| TANKMIX PARTNER | RATE | NOTES |
|-----------------|-----------|--|
| ESTAPROP® | 1.75 L/ha | For use on spring wheat only. Apply after the 4 leaf stage of crop to avoid crop injury. Applications should be made in 50-100 litres of water per hectare. |

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| 2,4-D ester or MCPA ester | up to 560 g a.i./Ha | For use on Spring Wheat, Durum Wheat and spring barley. Apply after the 4 leaf stage of the crop to avoid crop injury. Applications should be made in 50-100 litres of water per hectare. |
| REFINE® EXTRA | 20 g/Ha | For use on spring wheat and spring barley only. Apply from the 2 to 6 leaf stage of the crop. Add the REFINE EXTRA first to the water in the tank, then add ASSERT herbicide followed by surfactant. Use the spray preparation within 12 hours or product degradation may occur. Applications should be made in 100 litres of water per hectare. |
| REFINE EXTRA plus MCPA ester | 20 g/Ha + 350-560 g a.i./Ha | For use on spring wheat and spring barley only. Apply from the 4 to 6 leaf stage of the crop. Use the spray preparation within 12 hours or product degradation may occur. Application should be made in 100 litres of water per hectare. |

RATES OF ASSERT FOR TANK-MIX:

Black and grey wooded soil zones: tank-mix 746 grams of product (500 g active) per hectare.

Brown and dark brown soil zones: tank-mix 597 grams of product (400 g active) per hectare if the majority of wild oats are in the 1-3 leaf stage, 746 grams of product (500 g active) active if wild oats are in the 4-leaf stage.

FOLLOW CROP RESTRICTIONS

Rotation to the following crops can be made:

| Timing: | Soil Zones: | Crops: |
|--|-----------------------|--|
| The year following application of ASSERT | Black and grey wooded | spring wheat, durum wheat, spring barley, sunflower, canola, flax, peas. |

| | | |
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| | Brown and dark brown | spring wheat, durum wheat, spring barley, sunflower, imazethapyr, tolerant canola, (e.g. canola varieties with the SMART® trait). |
| Two years after the application of ASSERT | All soil zones | spring wheat, durum wheat, spring barley, sunflower, peas, canola, flax, oats, canary grass. |

To assess potential damage to crops not listed above for your soil zone, conduct a field bioassay (a test strip grown to maturity) the year before planting any crop.

The following crops have been observed to be particularly sensitive to ASSERT residues in the soil:

Lentils, Sugarbeets

The additive effect of soil residues from the use of ASSERT herbicide and ALLY® or AMBER® herbicides on the same land has not been determined. Crop rotation guidelines and minimum rotation intervals are not known and injury to rotational crops other than wheat (excluding durum) may occur. Wherever land will be treated with ASSERT herbicide and has been or will be treated with ALLY or AMBER herbicide, plant only wheat (excluding durum) after both herbicides have been used until a bioassay (see the Bioassay statement on the ALLY or AMBER label) demonstrates that other crops can be successfully grown.

ASSERT® and SMART® are registered trademarks of BASF.

MERGE® is a registered trademark of BASF Canada.

®All other products listed are registered trademarks of their respective companies.

DIRECTIONS FOR USE IN SUNFLOWERS:

PRAIRIE PROVINCES ONLY

ASSERT, a selective postemergence herbicide for use in sunflowers is absorbed through the foliage and roots of wild mustard and stinkweed plants. Susceptible plants stop growing soon after spray application. Obvious signs of plant death may not be seen in some plants until 2 weeks later but the competitive effect of these plants will have been removed. Death may not occur for several weeks.

WILD MUSTARD AND STINKWEED CONTROL

Apply ASSERT alone at the cotyledon to 6 leaf stage of growth of wild mustard or stinkweed.

CROP

ASSERT herbicide can be applied to sunflowers not under drought stress, from the 2-8 leaf stage of growth (sunflowers must be less than 38 cm high for regular varieties and less than 30 cm high for semi-dwarf varieties, and less than 10 cm for dwarf varieties).

Crop injury in the form of head deformation and stunting can occur from applications made after the 8 leaf stage.

FOLLOW CROP RESTRICTIONS

Rotation only to the following crops can be made the year following application of ASSERT:

Spring wheat¹, durum wheat¹, spring barley¹, sunflower¹ and canola², flax² and peas².

To assess potential damage to crops not listed above, conduct a field bioassay (a test strip grown to maturity) the year before planting any crop except those listed above.

The following crops have been observed to be particularly sensitive to ASSERT residues in the soil.

- Lentils and sugarbeets

¹ Applies to all soil zones.

² Applies in the black and grey wooded soil zones only.

RATES

ASSERT herbicide should be applied at 373 grams of product (250 grams active) in 100 litres spray per hectare when the sunflowers are in the 2-8 leaf stage.

RESISTANCE MANAGEMENT

For resistance management, ASSERT is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to ASSERT and other Group 2 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 ASSERT or other Group 2 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 BASF at 1-877-371-2273.

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.

((LABEL))

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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.