

27-JUL-2010
2009-1828

PRINCIPAL DISPLAY PANEL

GROUP

2

HERBICIDE

PP-E32-179 HERBICIDE

FOR SALE FOR USE IN THE PRAIRIE PROVINCES AND THE PEACE RIVER REGION OF
BRITISH COLUMBIA FOR POSTEMERGENCE CONTROL OF WILD OAT, VOLUNTEER TAME
OAT AND BROADLEAF WEEDS IN SPRING WHEAT

WATER DISPERSIBLE GRANULES

AGRICULTURAL

REGISTRATION NO. 29578 PEST CONTROL PRODUCTS ACT

GUARANTEE: Flucarbazone (present as flucarbazone-sodium) 32.1%
Thifensulfuron-methyl 17.1%
Tribenuron-methyl 8.6%

Warning: Contains the allergens milk and sulfites

NET CONTENTS: 240 grams – 13.6 Kg

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

E. I. du Pont Canada Company
Agricultural Products
Box 2300 Streetsville
Mississauga, Ontario
L5M 2J4
1-800-667-3925

PRECAUTIONS:

- KEEP OUT OF REACH OF CHILDREN.
- AVOID BREATHING SPRAY MIST. USE WITH ADEQUATE VENTILATION.
- **PROTECTIVE CLOTHING** - WHEN HANDLING (MIXING AND LOADING) PP-E32-179 HERBICIDE, WEAR LONG-SLEEVED SHIRT, LONG PANTS, CHEMICAL-RESISTANT GLOVES, SOCKS AND SHOES. READ AND FOLLOW HANDLING PRECAUTIONS AND PROTECTIVE CLOTHING RECOMMENDATIONS ON BROADLEAF HERBICIDE AND SURFACTANT TANK-MIX PARTNER LABELS. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR CLEANING/MAINTAINING PPE (PERSONAL PROTECTIVE EQUIPMENT). IF NO SUCH INSTRUCTIONS FOR WASHABLES, USE DETERGENT AND HOT WATER. KEEP PPE APART FROM OTHER LAUNDRY AND WASH SEPARATELY. WASH HANDS BEFORE EATING, DRINKING, CHEWING GUM, USING TOBACCO OR USING THE TOILET. REMOVE CLOTHING IMMEDIATELY IF PESTICIDE GETS INSIDE. THEN WASH THOROUGHLY AND PUT ON CLEAN CLOTHING. REMOVE PERSONAL PROTECTIVE EQUIPMENT IMMEDIATELY AFTER HANDLING THIS PRODUCT. WASH THE OUTSIDE OF GLOVES BEFORE REMOVING. AS SOON AS POSSIBLE, WASH THOROUGHLY AND CHANGE INTO CLEAN CLOTHING.
- DO NOT CONTAMINATE ANY BODY OF WATER.
- MAY BE HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. CAUSES EYE AND SKIN IRRITATION.
- WHEN USING, DO NOT EAT, DRINK OR SMOKE. WASH SKIN THOROUGHLY WITH SOAP AND WATER AFTER HANDLING.
- REMOVE CONTAMINATED CLOTHING IMMEDIATELY AFTER USE. STORE AND WASH CONTAMINATED CLOTHING SEPARATELY FROM HOUSEHOLD LAUNDRY BEFORE REUSE.
- DO NOT APPLY BY AIR

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:

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

For medical emergencies call 1-800-441-3637 (24 hours).

TOXICOLOGICAL INFORMATION:

Treat symptomatically.

STORAGE:

Store product in original container only, away from other pesticides, fertilizer, food or feed. Not for use or storage in or around the home. Keep container closed.

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

DISPOSAL:

If this is a non-returnable container:

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.

If this is a refillable container:

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.

If this is a returnable container:

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

For all package types:

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.

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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 1-800-441-3637 (24 hours).

TOXICOLOGICAL INFORMATION:

Treat symptomatically

ENVIRONMENTAL PRECAUTIONS:

- Do not remove soil from treated fields for use on lawns, in gardens or for back fill.
- Do not contaminate irrigation water. Do not apply to land where tail water will be used to irrigate cropland.
- Do not apply more than 58.5 g per hectare of PP-E32-179 Herbicide per crop year.
- TOXIC to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.

- Overspray or drift to important wildlife habitats such as shelterbelts, wetlands, sloughs or dry slough borders should be avoided.
- To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to: heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g. soils that are compacted or fine textured such as 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 vegetative strip between the treated area and the edge of the water body.

TABLE OF CONTENTS:

PRINCIPAL DISPLAY PANEL	1
PP-E32-179 HERBICIDE.....	1
PRECAUTIONS:	2
FIRST AID:	2
<i>IF IN EYES:</i>	2
<i>IF ON SKIN OR CLOTHING:</i>	2
<i>IF SWALLOWED:</i>	3
<i>IF INHALED:</i>	3
TOXICOLOGICAL INFORMATION:.....	3
STORAGE:	3
DISPOSAL:	3
NOTICE TO USER:	4
PP-E32-179 HERBICIDE.....	5
PRECAUTIONS:	5
<i>IF IN EYES:</i>	6
<i>IF ON SKIN OR CLOTHING:</i>	6
<i>IF SWALLOWED:</i>	6
<i>IF INHALED:</i>	6
TOXICOLOGICAL INFORMATION:.....	6
ENVIRONMENTAL PRECAUTIONS:	6
PRODUCT DESCRIPTION:	8
ROTATIONAL CROPS	8
GRAZING/HARVEST RESTRICTIONS:.....	9
VARIETY RESTRICTIONS:.....	9
RAINFASTNESS INFORMATION:	9
APPLICATION INFORMATION:	9
APPLICATION PRECAUTIONS:.....	9
APPLICATION INSTRUCTIONS:	10
GROUND APPLICATION	10
DIRECTIONS FOR USE:	10
SPRING WHEAT (EXCLUDING DURUM)	10
PP-E32-179 HERBICIDE + 2,4-D Amine or Ester	11
MIXING INFORMATION:	11
MIXING PRECAUTIONS:	12
MIXING DIRECTIONS:.....	12
SPECIAL MIXING INSTRUCTIONS FOR CHEMICAL HANDLERS	13
EQUIPMENT CLEANING INFORMATION:	13
CLEANING PRECAUTIONS:	13
CLEANING INSTRUCTIONS:	13
RESISTANCE-MANAGEMENT RECOMMENDATIONS:	14

STORAGE: 14
DISPOSAL: 15

PRODUCT DESCRIPTION:

PP-E32-179 Herbicide is recommended for selective post-emergent control or suppression of grass and broadleaf weeds in spring wheat not underseeded to legumes or grasses.

PP-E32-179 Herbicide contains three active ingredients formulated as water dispersible granules. It is non-corrosive, non-flammable, non-volatile and does not freeze. PP-E32-179 Herbicide is to be mixed with water and a recommended adjuvant and applied as a uniform broadcast spray. Apply early postemergence, to the main flush of actively growing weeds.

Warm, moist growing conditions promote active weed growth and enhance the activity of PP-E32-179 Herbicide by allowing maximum foliar uptake and contact activity. Weeds hardened off by cold weather or drought stress may not be adequately controlled or suppressed and regrowth may occur. For best results, ensure thorough spray coverage of target weeds. See "DIRECTIONS FOR USE" section of this label for complete use details.

PP-E32-179 Herbicide stops growth of susceptible weeds rapidly. However, typical symptoms (discolouration) of dying weeds may not be noticeable for 1 to 3 weeks after application, depending upon growing conditions and weed susceptibility. Degree of control and duration of effect are dependent on weed sensitivity, weed size, crop competition, growing conditions at and following treatment, and spray coverage.

IMPORTANT INFORMATION: READ BEFORE USING

Injury to or loss of desirable trees or 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, recreational grounds 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 other crops.
- Carefully observe sprayer clean-up instructions, as spray tank residues may damage crops other than wheat, spring barley or oats.

ROTATIONAL CROPS

The following crops may be planted 11 months after an application of PP-E32-179 Herbicide:

Soil Zones and Rotational Crops			
Gray-Wooded	Black	Dark Brown	Brown
Spring wheat Barley Canola	Spring wheat Barley Canola	Spring wheat Barley Canola	Spring wheat

Field peas*	Field peas* Field bean Flax Durum wheat	Field peas* Flax Durum wheat	
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*Field peas may be grown the year following PP-E32-179 Herbicide application in fields where precipitation has been normal or above normal (10 year average) during the growing season, and where organic matter content is above 4%, and pH below 7.5.

Or, fields can be summer fallowed.

As PP-E32-179 Herbicide is degraded by soil microbes, environmental conditions that decrease microbial activity must be considered when making rotational cropping decisions. These environmental conditions include prolonged drought and/or cold temperatures within the following cropping season, as well as soils with both low organic matter (OM) (less than 2%) and high pH (greater than 7.5). If these conditions exist, a soil bioassay may be necessary to ensure rotational crop safety.

Do not plant crops other than those listed above in the year following application of PP-E32-179 Herbicide on wheat.

GRAZING/HARVEST RESTRICTIONS:

Observe a minimal interval to harvest of 80 days after treatment.

Do not feed or graze treated fields. Wheat grain or straw from treated fields may be fed to livestock.

VARIETY RESTRICTIONS:

Limit use of PP-E32-179 Herbicide to currently licensed varieties of wheat. Consult the E. I. du Pont Canada Company prior to use on unlicensed varieties for crop tolerance information. DO NOT USE ON BELVEDERE WHEAT VARIETIES.

RAINFESTNESS INFORMATION:

Do not apply if it is raining or if rainfall is expected within one (1) hour after application.

APPLICATION INFORMATION:

APPLICATION PRECAUTIONS:

- Do not apply to irrigated land where tail water will be used to irrigate cropland.
- Apply with an adjuvant registered for use with PP-E32-179 Herbicide. Use only water as a carrier. Other carriers may accelerate breakdown of PP-E32-179 Herbicide and reduce its effectiveness.
- Do not apply to crops underseeded to legumes or grasses as injury to forage may result.
- Application to crops that are stressed by severe weather conditions, frost, low fertility, water logged soil (soil 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.
- Under certain conditions, such as heavy rainfall, prolonged cool weather, frost or wide fluctuations in day/night temperatures, temporary lightening in crop colour, and occasionally, a slight reduction in crop height may occur.
- Do not allow this herbicide to drift on to other crops, especially canola, tame oats or other non-

- target crops.
- Do not apply more than 58.5 grams/hectare of PP-E32-179 Herbicide per year.
 - Do not re-enter treated fields until 12 hours after application.
 - Apply only when the potential for drift to areas of human habitation or areas of human activity (houses, cottages, schools and recreational areas) is minimal. Take into consideration wind speed, wind direction, temperature, application equipment and sprayer settings.

APPLICATION INSTRUCTIONS:

GROUND APPLICATION

Apply the spray mixture uniformly with properly calibrated ground equipment. Ensure thorough coverage and a uniform spray pattern. Flat fan nozzles are recommended (minimum 55 litres spray volume per hectare). Use 50 mesh or larger filter screens (metal or nylon). A spray pressure of 210-275 kPa is recommended. Avoid overlapping and shut off spray boom while starting, turning, slowing or stopping to prevent crop injury from over application.

Do not apply during periods of dead calm, when winds are gusty or when wind speed is greater than 15 km/hr at 2 m high above ground at the site of application.

DIRECTIONS FOR USE:

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) medium classification. Boom height must be 60 cm or less above the crop or ground.

For ground application only. **DO NOT APPLY BY AIR.**

Do not mix, load or clean spray equipment within 10 metres of well-heads or aquatic systems, including marshes, ponds, ditches, streams, lakes, etc.

BUFFER ZONES:

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer, inter-row hooded sprayer, spot treatment, soil drench, and soil incorporation.

Overspray or drift to sensitive habitats should be avoided. A buffer zone of 20 m is required between the downwind edge of the boom and the closest edge of sensitive terrestrial habitats including forested areas, shelter belts, woodlots, hedgerows, and shrub lands. A buffer zone of 35 m is required between the downwind edge of the boom and the closest edge of sensitive aquatic habitats including sloughs, coulees, ponds, prairie potholes, lakes, rivers, streams, wetlands, and wildlife habitat at the edge of these bodies of water. Do not contaminate these habitats when cleaning and rinsing spray equipment or containers.

SPRING WHEAT (EXCLUDING DURUM)

PP-E32-179 HERBICIDE + 2,4-D Amine or Ester	
LOCATION: For use in the Prairie provinces and Peace River Region of British Columbia only.	
CROP(S): Spring wheat (excluding durum) only. NOT UNDERSEEDED TO LEGUMES.	
TIMING: Post-emergent application from 3 to 6-leaf (3 to 4 leaves on main stem, plus 2 tillers) growth stage of the crop. For wild oats and volunteer tame oats, apply from 1 to 6-leaf (1 to 4 leaves on main stem, plus 2 tillers).	
APPLICATION RATES	
PP-E32-179 Herbicide	58.5 grams/hectare
2,4-D Amine or Ester	up to 560 grams ae/ha
Adjuvant: Agral* 90 or Agsurf*	0.25% v/v
BROADLEAF WEEDS CONTROLLED	
Annual smartweed (green smartweed, lady's thumb)	Canada thistle ⁴
Ball mustard	Cleavers (1-3 whorls)
Chickweed ¹	Round leaved mallow ⁵
Corn spurry	Scentless chamomile
Cow cockle	Sow thistle ⁴
Flixweed	Stork's bill (2-6 leaf)
Groundsel (common)	Toadflax ⁶
Hemp-nettle	
Kochia	
Lamb's-quarters	
Narrow-leaved hawk's beard	
Redroot pigweed	
Russian thistle	
Shepherd's purse	
Stinkweed	
Tartary buckwheat	
Volunteer rapeseed ²	
Volunteer sunflower	
Wild buckwheat ³	
Wild mustard	
GRASS WEEDS CONTROLLED	
Volunteer Tame Oat	
Wild oat ⁷	
MIXING: Ensure that PP-E32-179 Herbicide is completely dissolved. Reduce agitation, and add 2,4-D Amine or Ester, and then adjuvant. Refer to MIXING DIRECTIONS section for general instructions. Consult the 2,4-D Amine or Ester label for additional information on rotational cropping restrictions, application instructions, use precautions and other restrictions.	

Notes:

1. Apply when chickweed is small (1-6 leaf) and actively growing, but before crop canopy prevents thorough coverage of weeds. Chickweed emerging after application will not be controlled.
2. PP-E32-179 Herbicide alone will not control imazethapyr tolerant canola varieties (e.g. Clearfield* varieties or other varieties with the Pursuit Smart* trait)
3. Apply to actively growing wild buckwheat in the cotyledon to 5-leaf stage. Under environmental stress, such as dry weather, control may be reduced. Large plants may regrow after treatment.
4. Apply when the majority of thistles have emerged and are actively growing. For best top growth control, apply before bud stage when thistles are no larger than 15 cm in height and before crop canopy prevents thorough coverage of weeds. A single application will effectively inhibit the ability of emerged thistles to compete with the crop. Later emerging thistles will not be controlled.
5. Apply to actively growing round leaved mallow from the 2-6 leaf stage (10-12 cm in height). PP-E32-179 Herbicide will keep mallow stunted, but may not reduce overall populations.
6. Apply to toadflax that is no larger than 15 cm in height. A control program for this weed includes both frequent tillage and chemical application.
7. For wild oat populations below 100 plants /m² and when plants are actively growing.

MIXING INFORMATION:

MIXING PRECAUTIONS:

If the sprayer has been left standing for a period of time, agitate thoroughly to re-suspend the herbicide before resuming spraying. Spray preparation should be used within 24 hours or product degradation may occur.

MIXING DIRECTIONS:

Select a spray volume that will ensure thorough coverage and a uniform spray pattern. Use a minimum of 55 L of spray volume per hectare for ground application. If tank mixing with other herbicides, always consult the label of the tank mix partner(s) for minimum spray volume requirements and apply the tank mixture using a water volume recommended for all products.

1. Always start with a clean and empty sprayer tank.
2. Fill the tank to 1/3 full of **clean** water.
3. With the agitator running, add the required amount of PP-E32-179 Herbicide. Continue to agitate for a minimum of 5 minutes to ensure that PP-E32-179 Herbicides **completely** dissolved.
4. Make sure there are no un-dissolved granules, and then add the required amount of the tank mix partner.
5. If the tank mix partner is an Emulsifiable Concentrate (EC), reduce agitation to avoid inducing an invert emulsion.
6. Add the rest of the water.
7. If required for the tank mixture, add the appropriate adjuvant. If an antifoam agent is required, add last.

8. Refer to the tank mix sections of this booklet for mixing order and other mixing instructions.
9. For repeat tank loads, reduce the material remaining in the tank to 10% of the original volume **or less** before proceeding with step 1, because remaining chemicals may prevent PP-E32-179 Herbicide granules from completely dissolving. If this is not possible, pre-slurry PP-E32-179 Herbicide in a small amount (5-10 L) of water before adding to the tank.

SPECIAL MIXING INSTRUCTIONS FOR CHEMICAL HANDLERS

1. Ensure the chemical handler is clean (rinsed with ammonia).
2. For best results, add PP-E32-179 Herbicide to the top of the sprayer tank.
3. If a chemical handler is used, make sure that all of the granules of PP-E32-179 Herbicide are completely dissolved and injected into the main tank with agitation before adding other chemicals.
4. Low water volumes in some chemical handlers can cause the water to become saturated with PP-E32-179 Herbicide, leaving un-dissolved granules. In that case, rinse the chemical handler with clean water before adding any other chemical.
5. Always dissolve the PP-E32-179 Herbicide granules with agitation in the main tank before adding a tank mix partner.

NOTE: Follow the clean-out procedure recommended for sprayer tanks for the chemical handler.

EQUIPMENT CLEANING INFORMATION:

CLEANING PRECAUTIONS:

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.

DO NOT CLEAN SPRAYER NEAR WELL OR WATER SOURCE OR NEAR TO DESIRABLE VEGETATION.

CLEANING INSTRUCTIONS:

To avoid subsequent injury to crops other than spring wheat, immediately after spraying and prior to spraying other crops, thoroughly remove all traces of PP-E32-179 Herbicide from mixing and spray equipment as follows:

1. Drain tank and flush tank, boom and hoses with clean water. If boom is equipped with multiple nozzle bodies, be sure to rotate through all nozzles to ensure clean water reaches all parts of these assemblies.
2. Visually inspect tank to ensure removal of all visible herbicide residues. If necessary, repeat Step 1.
3. Fill the tank with clean water, and then add 1 litre household AMMONIA (containing minimum of 3% ammonia) or equivalent amount of a sprayer tank cleaner containing ammonia, per 100 litres of water. Ammonia will not neutralize the herbicide, but helps

dissolve dried – on herbicide deposits. If an emulsifiable concentrate has been tank mixed with PP-E32-179 Herbicide, use of a wetting agent in the cleaning process will assist in removing oily residue that may trap PP-E32-179 Herbicide on the tank and hoses.

4. Flush solution through boom and hoses, and then add more water to completely fill tank. Circulate the solution for at least 15 minutes.
5. Flush the hoses, boom and nozzles once more.
6. Drain the tank.
7. Remove the nozzles and screens and clean separately in a bucket containing cleaning agent and water.
8. Repeat steps 3 and 4.
9. Thoroughly rinse the tank, boom and hoses with clean water for a minimum of 5 minutes, flushing water through the hoses and boom.

RESISTANCE-MANAGEMENT RECOMMENDATIONS:

For resistance management, PP-E32-179 Herbicide is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to PP-E32-179 Herbicide 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 used of PP-E32-179 Herbicide 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 your local DuPont representative or the DuPont hotline at 1-800-667-3925 for further information.

STORAGE:

Store product in original container only, away from other pesticides, fertilizer, food or feed. Not for use or storage in or around the home. Keep container closed.

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

DISPOSAL:

If this is a non-returnable container:

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.

If this is a refillable container:

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.

If this is a returnable container:

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

For all package types:

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.

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