Container Label

GROUP 2	HERBICIDE
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# **IMAGE** Herbicide

#### Solution

FOR SALE FOR USE IN THE PRAIRIE PROVINCES AND INTERIOR OF BRITISH COLUMBIA ONLY ON Clearfield® or Imazamox tolerant WHEAT (WHEAT VARIETIES WITH THE Clearfield or Imazamox tolerant TRAIT)

#### **AGRICULTURAL**

ACTIVE INGREDIENT: Imazamox .........120 g/L (present as ammonium salt)

Contains 1,2 benzisothiazolin-3-one at 0.017% as a preservative Or

Contains 5-Chloro-2-methyl-4-isothiazolin-3-one at 0.00102% and 2-Methyl-4-isothiazolin-3-one at 0.00033% as preservatives.

REGISTRATION NO. 33914 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 1.34 L -100 L

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

Sharda Cropchem Limited 2nd Floor, Prime Business Park Dashrathlal Joshi Road Vile Parle (West) Mumbai - 400056, India Canadian Agent:
Sharda Cropchem Limited
63 Kingsview Blvd
Etobicoke, Ontario, CA
M9R 1V1
1-844-810-5720
1-416-840-5639

**Clearfield** is a registered trade-mark of BASF Agrochemical Products B.V., used with permission by BASF Canada Inc.

(Back Panel of the Jug)

#### **PRECAUTIONS**

#### KEEP OUT OF REACH OF CHILDREN.

DO NOT apply using aerial application equipment.

Harmful if absorbed through skin or inhaled. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing.

Wear a long-sleeved shirt, long pants, socks and shoes during all activities and wear goggles or face shield and chemical resistant gloves for mixing/loading, cleanup and repair activities.

Do not enter or allow workers entry into treated areas during the restricted entry interval (REI) of 12 hours.

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.

## **ENVIRONMENTAL PRECAUTIONS**

TOXIC to non-target terrestrial plants. Observe buffer zones specified under Directions for Use.

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

## **FIRST AID**

**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 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.

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

# TOXICOLOGICAL INFORMATION

Treat symptomatically.

#### **STORAGE**

Store above 5°C.

Store in a cool, dry place away from children, animals, food, feed or fertilizers. Keep from freezing.

# **DISPOSAL**

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. 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.

GROUP 2 HERBICIDE

# **IMAGE** Herbicide

#### Solution

FOR SALE FOR USE IN THE PRAIRIE PROVINCES AND INTERIOR OF BRITISH COLUMBIA ONLY ON Clearfield® or Imazamox tolerant WHEAT (WHEAT VARIETIES WITH THE Clearfield or Imazamox tolerant TRAIT)

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REGISTRATION NO. 33914 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 1.34 L - 100 L

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## **ENVIRONMENTAL PRECAUTIONS**

TOXIC to non-target terrestrial plants. Observe buffer zones specified under Directions for Use.

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 strip between the treated area and the edge of the water body.

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

#### **FIRST AID**

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#### **TOXICOLOGICAL INFORMATION**

Treat symptomatically.

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#### **NOTICE TO USER**

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# FOR Clearfield® or Imazamox tolerant WHEAT (Wheat varieties with the Clearfield or Imazamox tolerant trait)

# **DIRECTIONS FOR USE (Prairie Provinces and Interior of British Columbia)**

IMAGE Herbicide is a selective herbicide that can be applied as an early post-emergent treatment in **Clearfield or Imazamox tolerant** Wheat varieties. **Clearfield or Imazamox tolerant** Wheat varieties are tolerant of imazamox, the active ingredient in IMAGE Herbicide. Wheat varieties that are not designated as having the **Clearfield or Imazamox tolerant** trait may be damaged or destroyed by this treatment. When IMAGE Herbicide is applied early post-emergence, absorption may occur through both the roots and foliage. Susceptible weeds stop growing and eventually die.

Apply using ground equipment only. DO NOT apply using aerial application equipment.

Do not apply more than once per year.

DO NOT apply directly to aquatic habitats (such as lakes, rivers, sloughs, ponds, coulees, prairie potholes, creeks, marshes, streams, reservoirs, ditches and wetlands) and estuarine/marine habitats.

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

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

DO NOT apply during periods of dead calm or when winds are gusty.

DO NOT graze the treated crop within 14 days of application or cut for hay within 42 days of application.

Pre-harvest Interval: Wheat grain and straw can be harvested 79 days after treatment.

# 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.

# **Buffer Zones**

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).

Method of Application	Crop	Buffer zones (metres) Required for the Protection of Terrestrial Habitat
Field sprayer	Wheat	1

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.

The spray drift buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pesticides and Pest Management portion of the Health Canada website.

#### BROADLEAF WEED AND GRASS CONTROL

Application should be made from the 2 to the 6 leaf stage of wheat crop and after the weeds have emerged. To control broadleaf weeds apply IMAGE Herbicide from the cotyledon up to the 4 leaf stage. To control grasses apply IMAGE Herbicide from the 1-4 true leaf stage up until early tillering. Initial crop injury may be observed after application but this is outgrown and should not affect yield. Severe crop injury will occur as a result of spray overlap. AVOID SPRAYER OVERLAP.

IMAGE Herbicide at 125 mL product/ha (15 g a.e./ha) will control:		
Lamb's-quarters* Stinkweed Wild mustard	Volunteer spring wheat (non-Clearfield or non-Imazamox tolerant wheat)	
IMAGE Herbicide at 167 mL product/ha (20 g a.e./ha	a) will control:	
Barnyard grass Cleavers* Cow cockle Green foxtail Green smartweed Japanese Brome Grass* Lamb's-quarters* Persian darnel Redroot pigweed Round-leaved mallow* Russian thistle* Shepherd's purse Stinkweed	Volunteer barley Volunteer canary seed Volunteer canola (non-Clearfield or non-Imazamox tolerant canola only) Volunteer durum wheat Volunteer spring wheat (non-Clearfield or non-Imazamox tolerant wheat) Volunteer tame oats Wild buckwheat* Wild mustard Wild oats Yellow foxtail	

<sup>\* =</sup> suppression only

Apply in 50-100 L/ha of water with a NON-IONIC SURFACTANT (e.g., AGRAL® 90, AGSURF® or SURF® 92) at the rate of 0.25% v/v.

#### **MIXING INSTRUCTIONS**

Use 50-100 L/ha of water. Use a 50-mesh (or coarser) filter screen. Fill the spray tank with three-quarters of the required amount of clean water, start agitation and continue agitation throughout the entire mixing and spraying procedure. Add the required amount of IMAGE Herbicide into the sprayer through the tank opening and continue agitating. After the herbicide is thoroughly mixed, continue agitation and add the required amount of nonionic surfactant. If excess foaming occurs, a silicone anti-foaming agent may be added (e.g. HALT®). Complete filling the tank to the desired level with water. If agitation is stopped for more than 5 minutes, resuspend spray solution by full agitation prior to commencing spraying again. Between loads of IMAGE Herbicide, check in-line and nozzle screens and rinse and clean if necessary. Upon completion of spraying IMAGE Herbicide, thoroughly flush tank, boom, hoses and in-line and nozzle screens with clean water to avoid possible injury to other crops.

# **TANK-MIXING**

To provide broad-spectrum weed control, IMAGE Herbicide may be tank-mixed with the following tank-mix partners. When applied as a tank-mix combination, read and observe all label directions, including rates, personal protective equipment, restrictions and precautions for each product used in the tank-mix. Always use in accordance with the most restrictive label restrictions and precautions.

IMAGE Herbicide + 2,4-D Ethylhexyl Ester	
Location Prairie provinces and Interior of British Columbia	

Crops	Clearfield or Imazamox tolerant Wheat	
Timing	Post-emergent application from the 2 to 6-leaf stage of crop	
Tank Mix Components	IMAGE Herbicide 15 g ae/ha (125 mL product/ha) or	
		20 g ae/ha (167 mL product/ha)
	2,4-D Ester	560 g ae/ha
Adjuvant	Non-ionic surfactant (e.g. AGRAL 90,	0.25 % v/v
	AGSURF or SURF 92)	
Spray Volume	50-100 L/ha water	
Weeds Controlled	This tank-mix combination controls all weeds as listed on the IMAGE Herbicide	
	and 2,4-D Ester herbicide labels.	

IMAGE Herbicide + CURTAIL® M Herbicide			
Location	Prairie provinces and Interior of British Columbia		
Crops	Clearfield or Imazamox tolerant Whea	at	
Timing	Post-emergent application from the 3 to	Post-emergent application from the 3 to 6-leaf stage of crop	
Tank Mix Components	IMAGE Herbicide	15 g ae/ha (125 mL product/ha) or 20 g ae/ha (167 mL product/ha)	
	CURTAIL M	A maximum rate of 660 g ae/ha (2.0 L product/ha)	
Adjuvant	Non-ionic surfactant (e.g. AGRAL 90, AGSURF or SURF 92)	0.25 % v/v	
Spray Volume	50-100 L/ha water		
Weeds Controlled	This tank-mix combination controls all weeds as listed on the IMAGE Herbicide and Curtail M Herbicide labels.		

IMAGE Herbicide + FRONTLINE® Herbicide Tank-Mix			
Location	Prairie provinces and Interior of British Columbia		
Crops	Clearfield or Imazamox tolerant Whea	at	
Timing	Post-emergent application from the exte	Post-emergent application from the extended 3 to 6 leaf stage of crop.	
Tank Mix Components	IMAGE Herbicide	15 g ae/ha (125 mL product/ha) or	
		20 g ae/ha (167 mL product/ha)	
	FRONTLINE A	5 g ai/ha (0.10 L product/ha)	
	FRONTLINE B	350 g ai/ha (0.70 L product/ha)	
Adjuvant	Non-ionic surfactant (e.g. AGRAL 90,	0.25 % v/v	
	AGSURF or SURF 92)		
Spray Volume	50-100 L/ha water		
Weeds Controlled	This tank-mix combination controls all weeds as listed on the IMAGE Herbicide		
	and Frontline Herbicide labels.		

IMAGE Herbicide + Starane™ or Starane II Herbicide			
Location	Prairie provinces and Interior of British	Prairie provinces and Interior of British Columbia	
Crops	Clearfield or Imazamox tolerant Wheat		
Timing	Post-emergent application from the 2 to 6 true leaf stage of crop		
Tank Mix Components	IMAGE Herbicide	20 g ae/ha (167 mL product/ha)	
	Starane or Starane II Herbicide	0.6 L /ha Starane or 0.31 L/ha Starane	

Adjuvant	Non-ionic surfactant (e.g. AGRAL 90, AGSURF or SURF 92)	0.25 % v/v
Spray Volume	50-100 L/ha water	
Weeds Controlled	tank-mix combination controls kochia flax and cleavers (including Group 2 stork's bill.  Initial crop injury may be observed af	fisted on the IMAGE Herbicide label, this (including Group 2 resistant), volunteer resistant), and provides suppression of fter application but this is outgrown and njury and a delay in maturity may occur AYER OVERLAP.

IMAGE Herbicide + Starane™ or Starane II Herbicide + MCPA Ester		
Prairie provinces and Interior of British Columbia		
Clearfield or Imazamox tolerant W	Clearfield or Imazamox tolerant Wheat	
Post-emergent application from the	3 to 6 true leaf stage of crop	
IMAGE Herbicide	IMAGE Herbicide 20 g ae/ha (167 mL product/ha)	
Starane or Starane II Herbicide	0.6 L /ha Starane or 0.31 L/ha Starane	
MCPA Ester  560 g ae/ha (500 g/L formulation: 1.12 L product/ha) (600 g/L formulation: 0.93 L product/ha)		
Non-ionic surfactant (e.g. AGRAL 90, AGSURF or SURF 92)	0.25 % v/v	
50-100 L/ha water		
This tank-mix combination controls cow cockle, wild buckwheat and common chickweed (non-Group 2 resistant biotypes) in addition to all weeds as listed on the IMAGE Herbicide label plus weeds as listed on the Starane Herbicide label for the tank-mix of Starane Herbicide plus MCPA Ester.  Initial crop injury may be observed after application but this is outgrown and should not affect yield. Severe crop injury and a delay in maturity may occur as a result of over spray. AVOID SPRAYER OVERLAP.		
	Prairie provinces and Interior of Britice  Clearfield or Imazamox tolerant Water  Post-emergent application from the IMAGE Herbicide  Starane or Starane II Herbicide  MCPA Ester  Non-ionic surfactant (e.g. AGRAL 90, AGSURF or SURF 92)  50-100 L/ha water  This tank-mix combination controls chickweed (non-Group 2 resistant on the IMAGE Herbicide label plus label for the tank-mix of Starane He Initial crop injury may be observed should not affect yield. Severe cro	

IMAGE Herbicide + MCPA Ester		
Location	Prairie provinces and Interior of Br	itish Columbia
Crops	Clearfield or Imazamox tolerant Wheat	
Timing	Post-emergent application from the 3 to 6 true leaf stage of crop	
Tank Mix Components	IMAGE Herbicide	20 g ae/ha (167 mL product/ha)
	MCPA Ester	560 g ae/ha – 630 g ae/ha
		(500 g/L formulation: 1.12 – 1.26 L
		product/ha)
	(600 g/L formulation: 0.93 – 1.05 L	
		product/ha)

Adjuvant	Non-ionic surfactant (e.g. AGRAL 90, AGSURF or SURF 92)	0.25 % v/v
Spray Volume	50-100 L/ha water	
Weeds Controlled	This tank-mix combination controls all weeds as listed on the IMAGE Herbicide label plus weeds as listed on the MCPA Ester label.	
	Initial crop injury may be observed after application but this is outgrown and should not affect yield. Severe crop injury and a delay in maturity may occur as a result of over spray. AVOID SPRAYER OVERLAP.	

## **TANK-MIXING INSTRUCTIONS**

Use 50-100 L/ha of water. Use a 50-mesh (or coarser) filter screen. Fill the spray tank with three-quarters of the required amount of clean water, start agitation and continue agitation throughout the entire mixing and spraying procedure. Add the required amount of IMAGE Herbicide and tank-mix partner into the sprayer through the tank opening and make sure it is thoroughly mixed. Continue agitation and add the required amount of non-ionic surfactant. If excess foaming occurs, a silicone anti-foaming agent may be added (e.g. HALT). Complete filling the tank to the desired level with water. If agitation is stopped for more than 5 minutes, resuspend spray solution by full agitation prior to commencing spraying again. Between loads of IMAGE Herbicide and its tank-mix partner, check in-line and nozzle screens and rinse and clean if necessary. Upon completion of spraying IMAGE Herbicide and its tank-mix partner, thoroughly flush tank, boom, hoses and in-line and nozzle screens with clean water to avoid possible injury to other crops.

# **FOLLOW CROPPING**

Winter wheat can be planted 3 months after treatment (3 MAT) as a rotational crop.

Initial crop injury to non-**Clearfield or non-Imazamox tolerant** canola may be observed. Avoid spray overlap as yield reduction may result. The following crops may be grown safely the year following an application:

Field peas

Field corn

Canary seed

Clearfield or Imazamox tolerant Canola (canola varieties with the Clearfield or Imazamox tolerant trait)

Non-Clearfield or non-Imazamox tolerant canola

Lentils

Spring wheat

Durum wheat

Spring barley

Sunflower

Tame oats

Flax

Chickpea

The following crop may be grown safely two years following an application:

Mustard (condiment type only)

There are insufficient data for other follow crops. Conduct a field bioassay (a test strip grown to maturity) the year before growing any crop other than those listed above.

# **RESISTANCE-MANAGEMENT RECOMMENDATIONS**

For resistance management, IMAGE Herbicide is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to IMAGE 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 use of IMAGE Herbicide or other Group 2 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 Sharda Cropchem Limited at 1-844-810-5720.

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