

2017-5686  
2017-10-26

GROUP **4** HERBICIDE

## Gharda Dicamba Sodium SG Herbicide

**SOLUBLE GRANULE**

**COMMERCIAL**

**(AGRICULTURAL)**

**GUARANTEE:** Dicamba, present as sodium salt ..... 70% a.e.

**WARNING, CONTAINS THE ALLERGEN MILK**

**REGISTRATION NO. 32252 PEST CONTROL PRODUCTS ACT**



**CAUTION**

**POISON**

**WARNING- EYE IRRITANT**

**IN CASE OF EMERGENCY ENDANGERING LIFE OR PROPERTY  
INVOLVING THIS PRODUCT, CALL DAY OR NIGHT  
1-(866)-359-5660**

**NET CONTENTS:** 1 kg

**READ THE LABEL AND BOOKLET BEFORE U**

Manufactured by:  
Gharda Chemicals International  
760 Newtown Yardley Rd. Suite 110  
Newtown, PA  
18940 U.S.A.  
215-968-9474

Distributed in Canada by:  
Gharda Chemicals International  
789 Donnybrook Dr.  
Dorchester ON  
NOL1G5 CA  
1-800-265-4624

## PRECAUTIONS

### KEEP OUT OF REACH OF CHILDREN.

Avoid contact with skin, eyes, and clothing.

Harmful if swallowed or absorbed through the skin.

Applicators must wear a long-sleeved shirt, long pants and chemical-resistant gloves. For applications to non-crop areas, applicators must also wear coveralls.

Wear safety goggles during mixing and loading. For good hygiene practices, wear gloves during mixing/loading, cleanup and repair operations and coveralls during all activities.

DO NOT enter treated fields until 12 hours after application to spring barley, canary seed (*Phalaris canariensis*), field corn, fallow, oats, pastures, red fescue, spring rye, stubble fields, summer fallow and wheat (spring, winter).

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](http://www.croplife.ca).

## FIRST AID

**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 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 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

Dicamba may cause severe irritation to the eyes and irritation to the skin and mucous membranes. Symptoms of overexposure to dicamba may include dizziness, muscle weakness, loss of appetite, weight loss, vomiting, decreased heart rate, shortness of breath, excitement, tenseness, depression, incontinence, cyanosis, muscle spasms, exhaustion and loss of voice.

Treat symptomatically.

## **ENVIRONMENTAL HAZARDS**

TOXIC to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.

### **Surface Runoff**

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, fine textured or low in organic matter such as clay).

Potential for contamination of aquatic areas as a result of runoff may be reduced by including an untreated vegetative strip between the treated area and the edge of the water body.

Avoid applying this product when heavy rain is forecast.

### **Leaching**

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

## **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 any 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.

## **STORAGE**

1. Store product in its original container only, away from other pesticides, fertilizer, food or feed.
2. Keep the container closed to prevent spills and contamination.
3. Keep packages dry at all times.

## **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.

**Gharda Dicamba Sodium SG Herbicide****SOLUBLE GRANULE COMMERCIAL****(AGRICULTURAL)****GUARANTEE:** Dicamba, present as sodium salt .....70% a.e.**WARNING, CONTAINS THE ALLERGEN MILK****REGISTRATION NO. 32252****PEST CONTROL PRODUCTS ACT****CAUTION****POISON****WARNING- EYE IRRITANT****NET CONTENTS:** 1 kg - 750 kg**READ THE LABEL AND BOOKLET BEFORE USING****KEEP OUT OF REACH OF CHILDREN**

**Manufactured by:**  
**GHARDA CHEMICALS LIMITED**  
660 Newtown-Yardley Rd  
Suite 106  
Newtown, PA 18940 USA  
Tel. No. 1-215-968-9474

**Distributed in Canada by:**  
**GHARDA CHEMICALS LIMITED**  
789 Donnybrook Dr.  
Dorchester, Ontario, CA NOL165  
Tel. No.1-800-265-4624

**Gharda Dicamba Sodium SG Herbicide** controls broadleaf weeds in cereals, field corn, pastures, rangeland grasses, non-crop areas, summerfallow and stubble, red fescue and canary seed (*Phalaris canariensis*) for sale for use in Western Canada and field corn in Eastern Canada.

## PRECAUTIONS

### KEEP OUT OF REACH OF CHILDREN.

Avoid contact with skin, eyes, and clothing.

Harmful if swallowed or absorbed through the skin.

Applicators must wear a long-sleeved shirt, long pants and chemical-resistant gloves. For applications to non-crop areas, applicators must also wear coveralls.

Wear safety goggles during mixing and loading. For good hygiene practices, wear gloves during mixing/loading, cleanup and repair operations and coveralls during all activities.

DO NOT enter treated fields until 12 hours after application to spring barley, canary seed (*Phalaris canariensis*), field corn, fallow, oats, pastures, red fescue, spring rye, stubble fields, summer fallow and wheat (spring, winter).

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](http://www.croplife.ca).

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

## TOXICOLOGICAL INFORMATION

Dicamba may cause severe irritation to the eyes and irritation to the skin and mucous membranes. Symptoms of overexposure to dicamba may include dizziness, muscle weakness, loss of appetite, weight loss, vomiting, decreased heart rate, shortness of breath, excitement, tenseness, depression, incontinence, cyanosis, muscle spasms, exhaustion and loss of voice.

Treat symptomatically.

## GENERAL PRECAUTIONS

1. **Gharda Dicamba Sodium SG Herbicide** should not be applied on or near desirable trees or plants.
2. Apply **Gharda Dicamba Sodium SG Herbicide** when air temperature is between 10 and 25°C. Do not apply when there is a risk of severe drop in night temperature.
3. Do not contaminate domestic or irrigation waters. Thoroughly clean application equipment after use.
4. Do not treat areas where soil penetration or surface washing may bring **Gharda Dicamba Sodium SG Herbicide** into contact with roots of desirable plants.
5. Crop damage may occur if **Gharda Dicamba Sodium SG Herbicide** is applied at any time other than the recommended crop stage.

**Note:** *Crops growing under stress from adverse environmental conditions such as excess moisture, drought, disease, etc. may suffer a further setback and exhibit more pronounced injury symptoms if **Gharda Dicamba Sodium SG Herbicide** is applied. However, the crop injury that may occur is usually offset by the weed control obtained.*

6. If **Gharda Dicamba Sodium SG Herbicide** is tank-mixed with another product, consult that product's label for additional precautions, restrictions, application rates, timings and additional weeds controlled.

## SPRAY DRIFT PRECAUTIONS

**Gharda Dicamba Sodium SG Herbicide** may cause injury to desirable trees and plants, particularly flowers, fruit trees, grapes, ornamentals, peas, potatoes, tomatoes, and other broadleaf plants, especially in their developmental and growing stage. Follow these precautions when spraying in the vicinity of sensitive crops:

1. Avoid spraying when winds are towards sensitive crops. Leave an adequate buffer zone between treatment areas and sensitive plants. When tank mixed with Peak Herbicide, a buffer zone of 20 metres should be observed.
2. Use coarse sprays since they are less likely to drift than fine sprays. Select nozzles which minimize amounts of fine spray particles. Keep spray pressure below 150 kPa and the spray volume above 220 L/ha unless otherwise required by the nozzle manufacturer.
3. Do not spray when the temperature is expected to exceed 30°C.
4. Avoid spraying under conditions of high humidity or fog.

## ENVIRONMENTAL HAZARDS

TOXIC to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.

## **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) 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 15 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 wingspan or rotor span.

DO NOT apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands), estuarine or marine habitats.

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

### **Surface Runoff**

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, fine textured or low in organic matter such as clay).

Potential for contamination of aquatic areas as a result of runoff may be reduced by including an untreated vegetative strip between the treated area and the edge of the water body.

Avoid applying this product when heavy rain is forecast.

### **Leaching**

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

### **Buffer Zones**

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

For application to rights-of-way, buffer zones for protection of sensitive terrestrial habitats are not required; however, the best available application strategies to minimize off-site drift, including meteorological conditions (e.g. wind direction, low wind speed) and spray equipment (e.g. coarse droplet sizes, minimizing height above canopy), should be used. Applicators must, however, observe the specified buffer zones for protection of sensitive aquatic habitats.

The buffer zones specified in the tables 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.



When a tank mixture is used, consult the labels of the tank mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

### Buffer Zones Using ASAE Coarse Applications

Method of Application	Crop		Buffer Zones (metres) Required for the Protection of:				
			Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		Terrestrial Habitat
			Less than 1 m	Greater Than 1 m	Less than 1 m	Greater Than 1 m	
Field sprayer*	Barley, oats, rye, wheat, Canary seed ( <i>Phalaris Canariensis</i> )		0	0	0	0	1
	Corn, red fescue		1	1	0	0	4
	Stubble fields, fallow land		1	1	0	0	5
	Pasture and rangeland, Non-cropland**		1	1	0	0	10
	Aerial	Barley, oats, Rye, wheat	Fixed wing	0	0	0	0
Rotary wing			0	0	0	0	45

\* For field sprayer application, buffer zones can be reduced with the use of drift-reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy, the labeled buffer zone can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy, the labeled buffer zone can be reduced by 30%.

\*\* Buffer zones for the protection of terrestrial habitats are not required for use on rights-of-way, including railroad ballast, rail and hydro rights-of-way, utility easements, roads, and training grounds and firing ranges on military bases.

## CEREALS

### Spring & Winter Wheat, Spring Barley, Spring Rye & Oats (not underseeded to legumes)

#### Treatment Notes

1. For best performance, spray when weeds are in the 2-3 leaf stage and rosettes are less than 5 cm across.
2. Use the higher level of listed rate ranges when treating more mature weeds or dense vegetative growth.
3. Crop damage can occur if application is made at any time other than the recommended crop stage.
4. Do not apply **Gharda Dicamba Sodium SG Herbicide** or **Gharda Dicamba Sodium SG Herbicide** tank-mixes if the crop is underseeded to legumes.

#### Ground Application

Apply **Gharda Dicamba Sodium SG Herbicide** or **Gharda Dicamba Sodium SG Herbicide** tank-mixes in at least 110 litres of water per hectare.

#### Aerial Application

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 marking devices.

### **Use Precautions**

Apply only when meteorological conditions at the treatment site allow for complete and even crop 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.

Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas. Specified buffer zones should be observed.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist). Do not apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

### **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 coveralls over long pants, long sleeved shirt, chemical resistant gloves 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, aircraft cockpit and vehicle cabs must be decontaminated regularly.

### **Product Specific Precautions**

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at **1-215-968-9474** 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:

1. **Gharda Dicamba Sodium SG Herbicide** or **Gharda Dicamba Sodium SG Herbicide** phenoxy tank-mixes may be aurally applied in not less than 20 litres of water/ha.
2. Apply **Gharda Dicamba Sodium SG Herbicide** alone at 160 - 200 g/ha or tank mix **Gharda Dicamba Sodium SG Herbicide** at 160 - 200 g/ha with the recommended rate of the phenoxy herbicides specified on this label.
3. Treat when wind is less than 15 km/hr. Do not apply during periods of dead calm or when weather conditions may cause drift from target areas to adjacent sensitive crops.
4. Do not use nozzle pressure above 200 kPa.

5. Do not spray when wind is blowing towards a nearby sensitive crop, garden or shelterbelt.
6. Do not use any additives with **Gharda Dicamba Sodium SG Herbicide**

### Weeds Controlled

Weeds	Gharda Dicamba Sodium SG Herbicide	Tank Mix
Buckwheat, <i>Tartary</i> Buckwheat, <i>wild</i> Cockle, <i>cow</i> Cleavers ( <b>use higher rate only</b> ) lady's-thumb sow-thistle, <i>perennial</i> ( <b>top growth only</b> ) smartweed, <i>green</i> spurry, <i>corn</i> thistle, <i>Canada</i> ( <b>top growth only</b> )	<b>Gharda Dicamba Sodium SG Herbicide</b> alone at 160 – 200 g/ha	none
<u>All of the above plus:</u> Burdock ( <b>young seedlings</b> ) cocklebur flixweed hemp-nettle* kochia pigweed, <i>redroot</i> pigweed, <i>Russian</i> radish, <i>wild</i> shepherd's-purse sunflower, <i>volunteer</i> ** thistle, <i>Russian</i> and other phenoxy susceptible weeds	<b>Gharda Dicamba Sodium SG Herbicide</b> at 160 – 200 g/ha +	2,4-D amine OR MCPA amine OR MCPA K

\* Use **Gharda Dicamba Sodium SG Herbicide** + MCPA K for hemp-nettle control. Apply at the 2 to 3-leaf stage of weed for best control. Hemp-nettle may not be controlled if application is made at a more advanced stage of crops and weeds.

\*\* Depending on the growing conditions, control may be delayed slightly.

### Application Directions

#### Spring Wheat

Herbicide Mix	Rate/ha	Crop Stage
<b>Gharda Dicamba Sodium SG Herbicide</b> alone	160 – 200 g/ha	2-5 leaf
+ 2,4-D amine	850 mL (500 g/L formulation)	2-5 leaf
OR MCPA amine	850 mL (500 g/L formulation)	2-5 leaf
OR MCPA K	1.1 L (400 g/L formulation)	2-5 leaf

## Spring Barley

Herbicide Mix	Rate/ha	Crop Stage
<b>Gharda Dicamba Sodium SG Herbicide</b> alone	160 g/ha	2-5 leaf
+ 2,4-D amine	850 mL (500 g/L formulation)	2-5 leaf
OR MCPA amine	850 mL (500 g/L formulation)	2-5 leaf
OR MCPA K	1.1 L (400 g/L formulation)	2-5 leaf

## Winter Wheat

Herbicide Mix	Rate/ha	Crop Stage
<b>Gharda Dicamba Sodium SG Herbicide</b> alone	160 – 200 g/ha	15-25 cm or before shot-blade stage
+ 2,4-D amine	850 mL (500 g/L formulation)	15-25 cm or before shot-blade stage
OR MCPA amine	850 mL (500 g/L formulation)	
OR MCPA K	1.1 L (400 g/L formulation)	

## Oats

Herbicide Mix	Rate/ha	Crop Stage
<b>Gharda Dicamba Sodium SG Herbicide</b> alone	160 – 200 g/ha	2-5 leaf
+ MCPA amine	850 mL (500 g/L formulation)	2-5 leaf
or MCPA K	1.1 L (400 g/L formulation)	2-5 leaf

## Spring Rye

Herbicide Mix	Rate/ha	Crop Stage
<b>Gharda Dicamba Sodium SG Herbicide</b> alone	160 – 200 g/ha	2-3 leaf
+ 2,4-D amine	850 mL (500 g/L formulation)	2-3 leaf

## Grazing Restrictions

Following treatment with **Gharda Dicamba Sodium SG Herbicide** or **Gharda Dicamba Sodium SG Herbicide** plus 2,4-D, follow these grazing restrictions:

- 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.

Following treatment with **Gharda Dicamba Sodium SG Herbicide** plus any other herbicide tank-mix: Do not graze or harvest for livestock feed prior to crop maturity; sufficient data are not available to support such use.

## SEED PRODUCTION

DO NOT apply by air.

### Treatment Notes

#### New/Established Stands of Red Fescue

1. Apply **Gharda Dicamba Sodium SG Herbicide** or **Gharda Dicamba Sodium SG Herbicide** tank-mixes in at least 110 litres of water per hectare.
2. Applications to new seedling stands may be made when the crop is 5 cm tall.
3. Application to established strands may be made up to the shot-blade stage of the crop.
4. For dandelion control, apply **Gharda Dicamba Sodium SG Herbicide** plus 2,4-D amine in the fall when weeds are in the rosette or early bud stage.

### Weeds Controlled

Weeds Controlled	Gharda Dicamba Sodium SG Herbicide Herbicide Rate	Tank Mix
Buckwheat, <i>Tartary</i> Buckwheat, <i>wild</i> Clover Cockle, <i>cow</i> lady's-thumb smartweed, <i>green</i> sow-thistle, <i>perennial (top growth only)</i> spurry, <i>corn</i> thistle, <i>Canada (top growth only)</i>	<b>Gharda Dicamba Sodium SG Herbicide</b> alone at 410 g/ha	None
<u>All of the above plus:</u> additional weeds and dandelion listed on the 2,4-D label	<b>Gharda Dicamba Sodium SG Herbicide</b> at 410 g/ha +	2,4-D amine at 1.5 L/ha (500 g/L formulation)

#### Canary Seed (*Phalaris canariensis*)

1. Apply **Gharda Dicamba Sodium SG Herbicide** alone at 200 g/ha or tank-mix **Gharda Dicamba Sodium SG Herbicide** at 200 g/ha with 850 mL/ha of MCPA amine (500 g/L formulation).
2. Apply when the canary seed (*Phalaris canariensis*) is in the 3 to 5-leaf stage.
3. Use the canary seed (*Phalaris canariensis*) for bird seed only.
4. For specific weeds controlled refer to the **Gharda Dicamba Sodium SG Herbicide + MCPA amine** weed spectrum listed under the Cereals section.

## FIELD CORN (Western Canada)

DO NOT apply by air.

### Treatment Notes

1. Apply **Gharda Dicamba Sodium SG Herbicide** or **Gharda Dicamba Sodium SG Herbicide** tank-mixes as broadcast ground treatments in 220 to 350 litres of water per hectare at a pressure of 150 to 275 kPa. Use coarse sprays.
2. Keep spray mixture in suspension at all times. If mixture is allowed to settle, thoroughly agitate the mixture before spraying.
3. Do not apply to sweet corn.
4. Do not use additives such as oils, wetting and sticking agents, etc. unless otherwise recommended.
5. Corn height refers to the crop as it stands, not leaf-extended.
6. When using drop pipes (drop nozzles) on corn 20 cm or more in height direct the spray beneath the lower leaves of the corn and onto the weeds and soil. Do not apply to corn over 50 cm in height.
7. Apply no later than 2 weeks prior to tassel emergence.
8. For the best control of annuals, spray when they are actively growing and in the seedling stage (up to 5 cm tall). Poor results may occur if weeds are well advanced at the time of application.
9. When applying **Gharda Dicamba Sodium SG Herbicide** adjacent to sensitive crops, apply as a pre-emergent or early post-emergent overlay treatment to avoid potential drift onto these sensitive crops.

### Weeds Controlled

Buckwheat, <i>wild</i>	mustard, <i>wormseed</i>
Buckwheat, <i>Tartary</i>	pigweed, <i>redroot</i>
Cleavers	pigweed, <i>Russian</i>
Cockle, <i>cow</i>	ragweed, <i>common</i>
Field bindweed*	ragweed, <i>false</i>
Lady's-thumb	ragweed, <i>giant</i>
Lamb's-quarters	smartweed, <i>green</i>
mustard, <i>hare's-ear</i>	sow-thistle, <i>perennial*</i>
mustard, <i>Indian</i>	spurry, <i>corn</i>
mustard, <i>tumble</i>	thistle, <i>Canada*</i>
mustard, <i>wild</i>	velvetleaf

\* Apply **Gharda Dicamba Sodium SG Herbicide** annually for three years at the flowering stage of bindweed and the budding stage of thistles.

## Application Directions

Apply **Gharda Dicamba Sodium SG Herbicide** as an overlay treatment to corn previously treated with any broadleaf or grass herbicide.

Herbicide	Rate/ha	Corn Stage	Weed Stage
<b>Gharda Dicamba Sodium SG Herbicide *</b>	860 g	Emergence to 5-leaf (13 cm)	Pre-emergence to 5 cm (2 leaf)
<b>Gharda Dicamba Sodium SG Herbicide **</b>	410 g	Emergence to 20 cm (20 - 50 cm with drop nozzles)	Pre-emergence to 5 cm (2 leaf)
<b>Gharda Dicamba Sodium SG Herbicide</b> + 2,4-D amine (500 g/L formulation)	200 g + 850 mL	Emergence to 3 leaf (10 cm) (10-50 cm with drop nozzles)	Pre-emergence to 5 cm (2 leaf)

\* The 860 g/ha rate of **Gharda Dicamba Sodium SG Herbicide** is particularly effective at providing extended residual control of late-germinating, deep-rooted annuals.

\*\* **Gharda Dicamba Sodium SG Herbicide** may be applied at 410 g/ha sequentially to an initial **Gharda Dicamba Sodium SG Herbicide** treatment. These sequential applications are recommended for control of field bindweed, Canada thistle and other late-germinating broadleaf weeds that escape the first treatment.

## FIELD CORN (Eastern Canada)

DO NOT apply by air.

### Treatment Notes

1. Apply **Gharda Dicamba Sodium SG Herbicide** or **Gharda Dicamba Sodium SG Herbicide** tank-mixes in 220 to 350 litres of water/ha at a pressure of 150 to 275 kPa. Use coarse sprays.
2. Keep spray mixture in suspension at all times. If mixture is allowed to settle, thoroughly agitate the mixture before spraying.
3. Do not apply to sweet corn.
4. Do not use additives such as oil, wetting agents, emulsifiers, detergents, spreaders, sticking agents, or dispersing agents on corn with **Gharda Dicamba Sodium SG Herbicide**.
5. Corn height refers to the crop as it stands, not leaf-extended.
6. When using drop pipes (drop nozzles), direct the spray beneath the lower leaves of the corn and onto the weeds and soil. Do not apply to corn over 50 cm in height.
7. Apply no later than 2 weeks prior to tassel emergence when using **Gharda Dicamba Sodium SG Herbicide** alone up to 50 cm.
8. For the best control of annuals, spray when they are actively growing and in the seedling stage. Poor results may occur if weeds are well advanced at the time of application.
9. When applying **Gharda Dicamba Sodium SG Herbicide** adjacent to sensitive crops, apply as a pre-emergent or early post-emergent treatment to avoid potential drift onto these sensitive crops.

## GHARDA DICAMBA SODIUM SG HERBICIDE / LIQUID NITROGEN

Pre-emergent applications of **Gharda Dicamba Sodium SG Herbicide** are generally compatible with most liquid nitrogen fertilizers. To determine compatibility, mix all components of the finished spray in proportionate quantities in a small jar before mixing in the spray tank. If the herbicides do not ball-up or form flakes, sludge, jelly, oily films or layers, or other precipitates within 5 minutes after mixing, the tested spray-mix is compatible.

### Weeds Controlled

Weeds Controlled	Gharda Dicamba Sodium SG Herbicide Herbicide Rate	Tank Mix
Bindweed, <i>field</i> ** Buckwheat, <i>Tartary</i> Buckwheat, <i>wild</i> Cleavers Cockle, <i>cow</i> Lady's-thumb Lamb's-quarters* mustard, <i>hare's-ear</i> mustard, <i>Indian</i> mustard, <i>tumble</i> mustard, <i>wild</i> mustard, <i>wormseed</i> pigweed, <i>redroot</i> * pigweed, <i>Russian</i> ragweed, <i>common</i> * ragweed, <i>false</i> ragweed, <i>giant</i> sow-thistle, <i>perennial</i> ** spurry, <i>corn</i> smartweed, <i>green</i> thistle, <i>Canada</i> ** velvetleaf	<b>Gharda Dicamba Sodium SG Herbicide</b> alone at 430 g – 860 g/ha	none

\* Including atrazine-resistant species.

\*\* Apply **Gharda Dicamba Sodium SG Herbicide** annually for three years at the flowering stage of bindweed and the budding stage of thistles.



## Pre-Emergence Treatment

### Eastern Canada Only

1. **Gharda Dicamba Sodium SG Herbicide** can be used in tank-mixes with Aatrex Liquid 480, Dual and Frontier for additional broadleaf and grassy weed control.
2. **Gharda Dicamba Sodium SG Herbicide** can be used alone at 860 g/ha or tank-mixed with the following herbicides:

Herbicide	Rate/ha
Dual	2.0 – 2.75 L
Frontier	1.1 – 1.4 L
Aatrex Liquid 480*	2.1 – 3.1 L

\*Other atrazine formulations will require a rate calculation adjustment according to percent active ingredient.

### Pre-Emergence Treatment Notes

- Apply **Gharda Dicamba Sodium SG Herbicide** tank-mixes as broadcast ground treatments after planting but before weeds and corn emerge.
- Apply to medium to fine textured soils containing more than 2.5% organic matter.
- Do not use on sandy or sandy loam soils.
- Avoid direct chemical contact with the corn seed. If you plan to apply **Gharda Dicamba Sodium SG Herbicide** prior to corn emergence, be sure to place the corn seeds 4 cm or more below the soil surface. If seeds are planted less than 4 cm below the soil surface, delay application of **Gharda Dicamba Sodium SG Herbicide** until the spike stage.
- Do not incorporate. If applications are made during planting, apply **Gharda Dicamba Sodium SG Herbicide** far enough behind the planting equipment to avoid incorporation by the planter wheel or other covering device. If soil crusting makes it necessary to use a rotary hoe after a pre-emergence treatment, delay hoeing the soil more than 1.3 cm deep.
- Always consult the tank mix partner label for further limitations and restrictions (especially re: soil type).

### Post-Emergence Treatment

**Gharda Dicamba Sodium SG Herbicide** or **Gharda Dicamba Sodium SG Herbicide** tank-mixes can be applied as “overlay” to corn previously treated with any other broadleaf or grass herbicide. The 860 g rate of **Gharda Dicamba Sodium SG Herbicide** as “overlay” is particularly effective in controlling velvetleaf and providing extended residual control of other late germinating, deep rooted annuals.

**Note:** Do not use additives such as oils, wetting agents, or sticking agents.

**Gharda Dicamba Sodium SG Herbicide alone**

**Spike to 5-leaf corn**

**Eastern and Western Canada**

Herbicide	Rate/ha	Corn Stage	Weed Stage
<b>Gharda Dicamba Sodium SG Herbicide alone</b>	860 g/ha	Emergence to 5-leaf	Pre-emergence to 2-leaf <sup>1</sup>

<sup>1</sup>For best performance, spray when the broadleaf weeds are emerged and up to the 2-leaf stage of their development.

**GHARDA DICAMBA SODIUM SG HERBICIDE Overlay Tank-Mixes:**

**Spike to 3-leaf corn**

**Eastern Canada only**

Herbicide	Rate/ha	Corn Stage	Weed Stage
<b>GHARDA DICAMBA SODIUM SG HERBICIDE + Aatrex Liquid 480*</b>	430 g + 2.1 – 3.1 L	Emergence to 3-leaf	Pre-emergence to 2-leaf <sup>1,2</sup>

\*Other atrazine formulations will require a rate calculation adjustment according to percent active ingredient.

<sup>1</sup>For best performance, spray when the broadleaf weeds are emerged and up to the 2-leaf stage of their development.

<sup>2</sup> Do not apply beyond the 2-leaf stage of the grassy weeds.

**Spike to 5-leaf corn**

**Eastern Canada only**

Herbicide	Rate/ha	Corn Stage	Weed Stage
<b>GHARDA DICAMBA SODIUM SG HERBICIDE + Frontier</b>	860 g + 1.1 – 1.4 L	Emergence to 3-leaf	Pre-emergence to 2-leaf**
<b>GHARDA DICAMBA SODIUM SG HERBICIDE + Peak + non-ionic surfactant</b>	200 g + 13.3 g + 0.2% v/v	2 to 5-leaf	
<b>GHARDA DICAMBA SODIUM SG HERBICIDE + Aatrex Liquid 480*</b>	860 g + 2.1 – 3.1 L	Emergence to 5-leaf	Pre-emergence to 2-leaf

\*Other atrazine formulations may require a rate calculation adjustment according to percent active ingredient.

\*\* For the best control of annuals, apply before the 2- leaf stage of grassy weeds.

**Spike to 50 cm standing corn  
Eastern Canada only**

<b>Herbicide</b>	<b>Rate/ha</b>	<b>Corn Stage</b>	<b>Weed Stage</b>
<b>GHARDA DICAMBA SODIUM SG HERBICIDE</b> alone	430 g	Emergence to 50 cm (drop nozzles from 20-50 cm corn)	Pre-emergence to 2-leaf
<b>GHARDA DICAMBA SODIUM SG HERBICIDE + 2,4-D amine</b>	200 g + 850 mL	Emergence to 50 cm (drop nozzles from 20-50 cm corn)	Pre-emergence to 2-leaf

**Grazing Restrictions**

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.

**PASTURES, RANGELAND AND NON-CROP AREAS**

**GHARDA DICAMBA SODIUM SG HERBICIDE** may be used to control broadleaf weeds in non-cropland areas, such as roadsides, hydro, pipeline and railway rights-of-way, airports, military bases, wasteland and similar non-crop land areas, as well as pasture and rangeland.

DO NOT apply by air.

**Treatment Notes**

1. Apply **GHARDA DICAMBA SODIUM SG HERBICIDE** or **GHARDA DICAMBA SODIUM SG HERBICIDE** tank-mixes in 110 - 210 litres of water/ha when weeds are actively growing.
2. Thorough coverage is necessary to control weeds.
3. Do not apply **GHARDA DICAMBA SODIUM SG HERBICIDE** or **GHARDA DICAMBA SODIUM SG HERBICIDE** tank-mixes if pasture is underseeded to legumes.
4. For high volume handwand applications, applicators must limit volume of solution used per day to 750 L (broadleaf control spot treatment only).

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.

## Weeds Controlled

Weeds Controlled	GHARDA DICAMBA SODIUM SG HERBICIDE Rate	Tank Mix
Ivy, <i>poison</i>	at 1.2 kg/ha +	2.2 L/ha 2,4-D amine (500 g/L In 560 litres water/ha
Bindweed, <i>field</i> Daisy, <i>English</i> Dock, <i>curled*</i> Goldenrod Ragwort, <i>tansy</i> Sow-thistle, <i>perennial</i> Thistle, <i>Canada</i>	alone at 1.4 kg/ha	None
<u>All of the weeds</u> <u>alone plus:</u> Carrot, wild and additional weeds listed on the 2-4D label	at 1.4 kg/ha +	2.2 L/ha 2,4-D amine (500 g/L formulation)

Weeds Controlled	GHARDA DICAMBA SODIUM SG HERBICIDE Rate	Tank Mix
<u>All of the weeds listed</u> <u>alone, plus the following:</u> Knapweed, <i>diffuse</i> Goat's-beard Ground-cherry Sage, <i>pasture</i> povertyweed Sorrel, <i>sheep</i> Spurge, <i>thyme-leafed</i>	alone at 3.2 kg/ha	None

\* *Top growth only*

## SUMMERFALLOW AND STUBBLE

DO NOT apply by air.

### Treatment Notes

1. Apply **GHARDA DICAMBA SODIUM SG HERBICIDE** in 110-220 litres of water/ha.
2. For the most effective control of Canada thistle, follow a long-term program approach that includes in-crop, post-harvest, and summerfallow treatments, in conjunction with tillage operations.
3. If application is made after September 1st, or if soil moisture levels are extremely low after application, crop injury may occur in the spring following application.

### Summerfallow Treatment Notes

1. Cultivate in the spring and apply **GHARDA DICAMBA SODIUM SG HERBICIDE** when:
  - The majority of thistles are up and before the early bud stage (15 - 25 cm tall).
  - Field bindweed is in the flowering stage.
  - Other weeds are in the early bud stage of growth.
2. Cultivate 3 weeks after application.

### Stubble Treatment Notes

Apply to regrowth after harvest and at least 2 weeks prior to a killing frost.

### Weeds Controlled

Weeds Controlled	GHARDA DICAMBA SODIUM SG HERBICIDE	Tank Mix	Recropping Option Year After Application
Bindweed, <i>field</i> daisy, <i>English</i> dock, <i>curled*</i> goldenrod sow-thistle, <i>perennial</i> ragwort, <i>tansy</i> thistle, <i>Canada</i>	alone at 1.7 kg/ha	none	cereals soybeans field corn sweet corn white beans

\*Top growth

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.

## SUMMERFALLOW ROSETTE APPLICATIONS

DO NOT apply by air.

### Treatment Notes

1. Commence early spring cultivation and continue as required throughout the summer.  
**Note:** *The final cultivation must occur between July 15 and August 1 and should cut the thistle off 5 to 7.5 cm below the soil surface.*
2. Spray when the majority of thistles have emerged as low-growing rosettes, 15 to 25 cm across in 110 - 220 litres of water/hectare.
3. Apply at least 2 weeks prior to a killing frost.
4. Cultivate 3 weeks after application.

### Weeds Controlled

Weeds Controlled	GHARDA DICAMBA SODIUM SG HERBICIDE
thistle, Canada	860 g/ha

## WEED CONTROL IN REDUCED TILLAGE FALLOW

DO NOT apply by air.

### Treatment Notes

Apply **GHARDA DICAMBA SODIUM SG HERBICIDE** + 2,4-D Amine in the spring to emerged, actively growing seedling weeds at the 2 to 4-leaf stage.

Weeds Controlled	GHARDA DICAMBA SODIUM SG HERBICIDE	Tank Mix
Buckwheat, <i>Tartary</i> Buckwheat, <i>wild</i> cockle, <i>cow</i> flixweed kochia lady's-thumb lamb's-quarters mustard, <i>wild</i> pigweed, <i>redroot</i> shepherd's-purse sow-thistle, <i>perennial</i> * smartweed, <i>green</i> stinkweed thistle, <i>Canada</i> * thistle, <i>Russian</i>	at 160 – 200 g/ha	2,4-D amine at 1.1 L/ha

\*Top growth only

## **Grazing Restrictions**

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.

## **RESISTANCE-MANAGEMENT RECOMMENDATIONS**

For resistance management, **GHARDA DICAMBA SODIUM SG HERBICIDE** is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to **GHARDA DICAMBA SODIUM SG HERBICIDE** 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 **GHARDA DICAMBA SODIUM SG HERBICIDE** 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 GHARDA at **1-215-968-9474**.

## **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 any 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.



### **GHARDA DICAMBA SODIUM SG HERBICIDE alone, or with 2,4-D or MCPA**

The following steps are suggested for thorough cleaning of spray equipment following applications of **GHARDA DICAMBA SODIUM SG HERBICIDE** tank-mixed with 2,4-D or MCPA:

1. Thoroughly hose down the inside and outside of equipment surfaces while filling the spray tank half-full with water. Flush by operating the sprayer until the system is purged of the rinse water.
2. Fill the tank with water, adding 1 L of household ammonia for every 100 L of water. Operate the spray pump to circulate the ammonia solution through the sprayer solution for 15-20 minutes and discharge a small amount of the ammonia solution through the spray boom and nozzles. Let the solution out of the spray tank through the boom.
3. Flush the solution out of the spray tank through the boom.
4. Remove the nozzles and screens and flush the system with two tanks full of water.

### **STORAGE**

1. Store **GHARDA DICAMBA SODIUM SG HERBICIDE** in its original container only, away from other pesticides, fertilizer, food or feed.
2. Keep the container closed to prevent spills and contamination.
3. Keep packages dry at all times.

### **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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