

Booklet

GROUP	4	HERBICIDE
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**DyVel® Herbicide**

**SOLUTION**

**COMMERCIAL (AGRICULTURAL)**

**GUARANTEE:** Dicamba, present as dimethylamine salt ..... 84 g a.e./L  
MCPA, present as potassium salt ..... 336 g a.e./L

10 Litres of **DyVel** Herbicide treats 8 hectares (19.7 acres)

**REGISTRATION NO.** 16545

**PEST CONTROL PRODUCTS ACT**



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

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

**NET CONTENTS:** 10 L, 55 L, 110 L, 1000 L

BASF Canada Inc.  
5025 Creekbank Road  
Building A, 2nd Floor  
Mississauga, Ontario L4W 0B6  
1-877-371-2273

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## PRECAUTIONS

### KEEP OUT OF REACH OF CHILDREN.

Avoid contact with skin, eyes and clothing.

Harmful if swallowed or absorbed through the skin.

Mixers, loaders and applicators must wear a long-sleeved shirt, long pants, socks, shoes and chemical-resistant gloves. Aerial applicators and applicators using a closed cab are not required to wear chemical-resistant gloves.

DO NOT enter treated fields until 12 hours after application for all agricultural scenarios.

Do not use in residential areas, which are defined as sites where bystanders may be present during or after spraying, including homes, schools, parks, playgrounds, playing fields and public buildings.

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.

High concentrations of MCPA may cause severe irritation to the eyes. Symptoms of overexposure to MCPA could include slurred speech, twitching, jerking and spasms, drooling, low blood pressure and unconsciousness.

Treat symptomatically.

## ENVIRONMENTAL HAZARDS

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

## GENERAL PRECAUTIONS

1. Crop damage can occur if **DyVel** Herbicide is applied 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 **DyVel** Herbicide is applied. However, the crop injury that may occur is usually offset by the weed control obtained.*
2. Apply **DyVel** Herbicide when air temperature is between 10°C and 25°C to avoid temperature stress on target plant species. Do not apply when there is a risk of severe fall in night temperature.
3. Do not contaminate domestic or irrigation waters. Thoroughly clean application equipment after use.
4. **DyVel** Herbicide should not be applied on or near desirable trees or plants.
5. Do not treat areas where soil penetration or surface washing may bring **DyVel** Herbicide into contact with the roots of desirable plants.
6. If **DyVel** Herbicide is tank-mixed with Horizon® or Everest® Solupak 70 DF, consult the Horizon or Everest Solupak 70 DF product label for additional precautions and restrictions.

## SPRAY DRIFT PRECAUTIONS

**DyVel** Herbicide may cause injury to desirable trees and plants, particularly soybeans, flowers, fruit trees, grapes, ornamentals, peas, potatoes, tomatoes, and tobacco, and other broadleaf plants, especially in their developmental and growing stage. Follow these precautions:

1. Avoid spraying when winds are gusty or in excess of 8 km/h and moving towards sensitive crops. Leave an adequate buffer zone between treatment areas and sensitive plants.
2. Use coarse sprays since they are less likely to drift than fine sprays. Select nozzles which produce only minimal amounts of fine spray particles and keep the spray pressure below 150 kPa and spray volume above 200 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.

## **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 16 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 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 and spot treatment.

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, rangelands, 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.

Method of Application	Crop		Buffer Zones (metres) Required for the Protection of:				Terrestrial Habitat
			Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer*	Barley, oats, spring wheat and winter wheat		1	1	1	1	4
Aerial	Barley, oats, spring wheat and winter wheat	Fixed wing	1	0	1	0	60
		Rotary wing	1	0	1	0	50

*\*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 labelled 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 labelled buffer zone can be reduced by 30%.*

#### Maximum Application Rates and Maximum Number of Applications per Year

Site	Maximum Rate for a Single Application (g a.e. of MCPA/ha)*	Cumulative Maximum Rate per season (g a.e. of MCPA/ha)	Maximum Number of Applications per Year
Barley	875	875	1
Oats	875	875	1
Wheat	875	875	1

*\*Do not exceed the application rates listed in the Application Directions section of this product's label.*

## WEEDS CONTROLLED

### DyVel Herbicide Alone

buckwheat, <i>Tartary</i>	mustard, <i>tumble</i>
buckwheat, <i>wild</i>	mustard, <i>wild</i>
Burdock	mustard, <i>wormseed</i>
cleavers*	pigweed, <i>prostrate</i>
Cocklebur	pigweed, <i>redroot</i>
corn spurry**	pigweed, <i>Russian</i>
cow cockle**	ragweed, <i>common</i>
Flixweed	ragweed, <i>false</i>
green smartweed	ragweed, <i>giant</i>
hemp-nettle**	shepherd's-purse
Kochia	sow-thistle, <i>perennial</i> ***
lady's-thumb	stinkweed
lamb's-quarters	thistle, <i>Canada</i> ***
mustard, <i>ball</i>	thistle, <i>Russian</i>
mustard, <i>hare's-ear</i>	volunteer canola****
mustard, <i>Indian</i>	volunteer sunflowers
	wild radish

\* *Suppression*

\*\* *For best results apply DyVel Herbicide at the weed's 2-to 3-leaf stage.*

\*\*\* *Top Growth Control. Weeds may not be controlled if application is made at a more advanced stage of crops and weeds.*

\*\*\*\* *Best results will be obtained if application is made prior to bolting of canola, when this weed is at the 2 to 4 leaf stage.*

### **Additional Weeds Controlled by DyVel Herbicide + Horizon**

oats, wild                      foxtail, green                      foxtail, yellow

**Note:** *For optimum results, apply when weeds are actively growing.*

### **Additional Weeds Controlled by DyVel Herbicide + Everest Solupak 70 DF**

oats, wild                      foxtail, green

## APPLICATION DIRECTIONS

Apply **DyVel** Herbicide alone or in a tank-mix with Horizon Herbicide or Everest Solupak 70 DF.

Do not treat crops underseeded to legumes/forages.

## GROUND APPLICATION DIRECTIONS

### DyVel Herbicide + Horizon Herbicide or Everest Solupak 70 DF Tank-Mix

#### Treatment Stage

Spring Wheat* ONLY Prairie Provinces and Peace River Region of British Columbia	Crop Stage	Weed Stage
<b>DyVel Herbicide + Horizon</b>	Apply from the 2 to 5 leaf stage of the crop	<b>Wild Oats:</b> Apply when weeds are at 1-6 leaf stage, prior to emergence of 4th tiller  <b>Foxtails:</b> Apply when weeds are at 1-5 leaf stage. For optimum control, apply before tillering and while foxtail is actively growing.
<b>DyVel Herbicide + Everest Solupak 70 DF**</b>	Apply from 1 to 6-leaf stage of the crop	Wild oat should be no larger than 4 leaf, 2 tillers. Green foxtail should be no larger than 4 leaf, 2 tillers.

**\*Note:** Do not apply the **DyVel Herbicide + Horizon Herbicide or Everest Solupak 70 DF** tank mix on any crops other than spring wheat.

**Do not apply these tank-mixes by air.**

**\*\*Reduction in wild oat control may be observed with this tank-mix partner.**

Do not contaminate streams, rivers, lakes, ponds, wetlands, sloughs, irrigation water, vegetated ditch banks, and water used by livestock or for domestic purposes.

Do not apply within 15 m of a wetland area or any of the afore-mentioned bodies of water.

Observe minimum interval to harvest of 60 days after treatment with **DyVel Herbicide** alone.

#### Ground Application Rate

Weeds	Rate	
	DyVel Herbicide	Horizon 240 EC + Score
wild oats	1.25 L/ha	230 mL/ha + 0.8% v/v (800 mL/ha of Score with 100 L/ha of water)
wild oats green foxtail yellow foxtail	1.25 L/ha	290 mL/ha + 1.0% v/v (1 L/ha of Score with 100 L/ha of water)
	DyVel Herbicide	Everest Solupak 70 DF + Agral® 90 or Ag-Surf®
wild oats green foxtail	1.25 L/ha	43 g/ha + 0.25% v/v (0.25 L/ha of Agral 90 or Ag-Surf with 100 L/ha of water)

**Note: DyVel Herbicide + Horizon**

Add the **DyVel Herbicide** to the spray tank first, followed by the **Horizon 240 EC** and **Score®** adjuvant.

**DyVel Herbicide + Everest Solupak 70 DF**

Add the **Everest Solupak 70 DF** to the spray tank first, when dissolved, add **DyVel Herbicide** followed by the **Agral 90** or **Ag-Surf** adjuvant.

**Spraying Instructions:            Water Volume:** 100 L/ha  
**Pressure:** 275 - 310 kPa

**APPLICATION DIRECTIONS - DyVel Herbicide Alone**

**Treatment Stage**

<b>Barley</b>	Apply from the 2 to 5 leaf stage of the crop
<b>Oats</b>	
<b>Spring Wheat</b>	

<b>Winter Wheat</b>	Apply in spring when crop is 15 to 25 cm tall or before the shot blade stage
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*Note: Crop damage can occur if applications are made at other than the recommended crop stage.*

**Application Rate**

<b>1.25 L/ha</b>	one 10 L jug treats 8 hectares (19.7 acres)
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**Water Volume**

<b>Ground Application</b>	100 L/ha
<b>Aerial Application</b>	20 L/ha (minimum)



## **Aerial Application (Western Canada only)**

Aerial applicators must wear long pants and a long-sleeved shirt. Mixers/loaders must wear long pants, a long-sleeved shirt and chemical-resistant gloves during mixing, loading, clean-up and repair activities. Aircraft must be closed cab.

Mixer/loader and applicator must be different individuals. No human flaggers permitted.

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 chemical resistant gloves, coveralls 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 1-877-371-BASF (2273) 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. Do not spray when winds are greater than 15 km/hour.
2. Do not use nozzle pressure above 200 kPa.
3. Do not spray when the wind is blowing towards a nearby sensitive crop, garden or shelterbelt.
4. Do not use any additives with **DyVel** Herbicide.

### **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.

#### ***DyVel Herbicide + Horizon***

Allow 30 days between application of **DyVel** Herbicide, **DyVel** Herbicide + Horizon and grazing or cutting of cereal crop for hay.

#### ***DyVel Herbicide + Everest Solupak 70 DF***

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

### **RESISTANCE-MANAGEMENT RECOMMENDATIONS**

For resistance management, **DyVel** Herbicide is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to **DyVel** 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 **DyVel** Herbicide or other Group 4 herbicides with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted.
- Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.
- Monitor treated weed populations for resistance development.
- Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.

- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact BASF at 1-877-371-2273.

## **CLEANING SPRAY EQUIPMENT**

The following steps are suggested for thorough cleaning of spray equipment following applications of **DyVel** Herbicide.

1. Thoroughly hose down the inside and outside of equipment surfaces while filling the spray tank half-full with water. Flush by operating sprayer until the system is emptied of the rinse water.
2. Fill the tank with water while adding 1 L of household ammonia (containing a minimum of 3% 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 stand for several hours, preferably overnight.
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 **DyVel** 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. If product is frozen, thaw in a warm room, allowing the product to reach room temperature, then roll or shake the container.

## **DISPOSAL**

### **Returnable/Refillable Containers**

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.

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.

### **Recyclable Containers**

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.

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## **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.

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

Container

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**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.

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