

GROUP	4	HERBICIDE
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**DyVel® DS_p
Liquid Herbicide**

SOLUTION

COMMERCIAL (AGRICULTURAL)

GUARANTEE: Dicamba, present as dimethylamine salt	110 g a.e./L
2,4-D, present as dimethylamine salt	295 g a.e./L
Mecoprop-P, present as dimethylamine salt	80 g a.e./L

WARNING, contains the allergen soy

REGISTRATION NO. 27856

PEST CONTROL PRODUCTS ACT



WARNING

POISON

**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

SHAKE WELL BEFORE USE

KEEP OUT OF REACH OF CHILDREN

NET CONTENTS: 10 L and 55 L to 100 L

BASF Canada Inc.
100 Milverton Drive, 5th Floor
Mississauga, ON L5R 4H1
1-877-371-2273

DYVEL® DS_p is a registered trademark of BASF. ©BASF Canada Inc., 2005

GENERAL INFORMATION

DyVel DS_p Herbicide is used for systemic control of many broadleaf weeds in spring and winter wheat, barley (not underseeded to legumes), corn, crop-free land (stubble fields and summerfallow), roadsides and pasture lands.

CAUTION

The symptoms of the effect on the weeds differ from 2,4-D. Visible effects on some of the hard to kill weeds may not be seen immediately as much of the dicamba action takes place in the roots. Under certain conditions, **DyVel DS_p** Herbicide may cause shortening of the straw of cereals but yield will not be affected. Crops under stress from adverse environmental conditions such as excess moisture, drought, disease, etc., may suffer a further setback when this herbicide is applied. However, the crop injury that may occur is normally offset by the weed control obtained.

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.

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.

TOXICOLOGICAL INFORMATION

This product may cause severe irritation to the eyes, and irritation to the skin and mucous membranes. Symptoms of overexposure may include coughing, burning, dizziness, muscle weakness, temporary loss of muscle coordination, loss of appetite, weight loss, nausea, vomiting, decreased heart rate, shortness of breath, excitement, tenseness, depression, incontinence, cyanosis, muscle spasms, exhaustion, fatigue and loss of voice. Treat symptomatically.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. DO NOT APPLY BY AIR. Avoid breathing spray or spray mist and avoid contact with skin. Keep in original container during storage. Do not allow spray, spray mist, visible or invisible vapours or air containing mist or vapours to contact plants other than those being sprayed.

If phenoxy susceptible plants are growing within a distance of 400 m from the area being sprayed, spray only when there is a light breeze away from the susceptible plants. Susceptible crops include grapes, tomatoes, tobacco, sugar beets, sunflowers, beans, soybeans, turnips, cauliflower and cabbages, as well as many other field, vegetable, ornamental and fruit crops. Spray drifting can be reduced by using high volume sprays under low pressure, coarse sprays and drop nozzles. Sprayers which have contained **DyVel DS_p** Herbicide should not be used to apply other pesticides to phenoxy susceptible crops.

Do not contaminate streams, lakes, ponds, irrigation water, water used for livestock, or domestic purposes. Do not store open container near seeds, feeds, fertilizers, or pesticides including insecticides, fungicides, and weed killers other than those containing 2,4-D, MCPA or brushkillers.

Do not add surfactants, emulsifiable oils or oil concentrates to **DyVel DS_p** Herbicide.

Do not apply **DyVel DS_p** Herbicide when temperatures are above 27°C and the relative humidity is very high.

Do not apply **DyVel DS_p** Herbicide if wind velocity exceeds 8 km/hr.

Spray **DyVel DS_p** Herbicide only when wind is blowing away from susceptible adjacent crops.

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.

PERSONAL PROTECTIVE CLOTHING AND EQUIPMENT

- When mixing/loading, wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, shoes and protective eye wear (face shield or safety glasses). Rinse gloves before removal.
- Coveralls should also be worn when open pouring from containers.
- When applying or during clean-up and repair, wear coveralls over a long sleeved shirt, long pants, chemical resistant gloves, socks and shoes. Rinse gloves before removal.
- Gloves are not required during application when the applicator is in an enclosed tractor.

- When handling more than 265 kg a.e. of 2,4-D per day (approximately 120 hectares at highest agricultural rate – 2.24 kg a.e./ha), workers must also use a closed system.
- For high volume hand wand applications, applicators must limit volume of solution used per day to 400 L (broadleaf control spot treatment only).

OPERATOR USE PRECAUTIONS

- Wear freshly laundered clothing, and clean protective equipment daily.
- Rinse gloves before removal.
- Wash hands before eating, drinking, using tobacco or using the toilet.
- If herbicide penetrates clothing, remove IMMEDIATELY, then wash thoroughly and put on clean clothing. Throw away clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate.
- After using this product, remove clothing and launder separately, and promptly and thoroughly wash hands and exposed skin with soap and water. Follow manufacturer's instructions for cleaning personal protective clothing and equipment. If no such instructions for washables are provided, use detergent and hot water. Keep and wash personal protective equipment separately from household laundry.
- After work, remove all clothing and shower using soap and water.

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.

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.

ENVIRONMENTAL HAZARDS

Toxic to small wild mammals, birds, aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.

This product will harm other broadleaved plants in the vicinity of the treatment area. If applying this product using a handheld sprayer, do not directly spray or allow the spray to drift onto ornamentals or gardens.

Do not spray exposed roots of trees and ornamentals.

Leaching

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

Surface Runoff

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 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.

To prevent runoff, avoid spraying on driveways, sidewalks or other hard surfaces. Do not irrigate within 24 hours after application.

DIRECTIONS FOR USE

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

DO NOT APPLY BY AIR.

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.

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

Restricted-entry interval (REI) - All crops – 12 hours; corn (sweet) – 14-day REI for hand harvesting.

Rotational Crop Restriction

A plant-back interval of 30 days is required for all crops other than those listed on this label.

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.

Buffer Zones

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

For application to rights-of-way (such as roadsides), buffer zones for protection of sensitive terrestrial habitats are not required; however, the best available application strategies which 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 organisms.

Seasonal water bodies require buffer zones if there is water in them during application. Water bodies which do not fill on an annual basis need not be buffered.

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, 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 and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

Buffer Zones for the Protection of Aquatic and Terrestrial Habitats

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*	Corn, barley, wheat, stubble fields and summerfallow	1	1	1	1	5
	Pasture, roadsides**	1	1	1	0	10

* 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 roadsides.

Maximum Application Rates, Maximum Seasonal Application Rates, Maximum Number of Applications per Year or Maximum Amount of Pesticide to be Handled per Person per Day

Site	Maximum Rate for a Single Application (g a.e. of 2,4-D/ha)	Cumulative Maximum Rate per Season (g a.e. of 2,4-D/ha)	Maximum Number of Applications per Year	Comments
Grasses – established pastures	2240	4480	2	
Barley and wheat – post-emergence treatment in conventional tillage	880	880	1	Rate for pre-emergence treatment in minimum tillage system remains the same as current label.
Corn (field) – post-emergence (except for Jerusalem artichoke control)	600	600	1	For Jerusalem artichoke control, 2 post-emergence applications of 325 g a.e. of 2,4-D/ha continue to be acceptable.
Fallow land and crop stubble	2240	4480	2	
Non-cropland areas – annual and perennial weeds control (roadsides)	2240	4480	2	Hand-held equipment: maximum 2700 g a.e./day/person or 120 L/day/person at maximum rate.

MIXING

Shake this product well before using. Half fill the spray tank with clean water. Add the required amount of product and agitate thoroughly. Fill the tank with clean water and agitate well before use. NOTE: If spray solution has been left standing, agitate thoroughly before use.

TRANSFER SYSTEM - Containers larger than 20 litres: Use a transfer system that avoids open pouring when transferring the liquid concentrate from such containers into the spray tank.

WEEDS CONTROLLED

Easy to Kill

Wild buckwheat	Pigweeds (prostrate, redroot)*
Lady's-thumb	Lamb's-quarters*
Annual smartweeds	Common ragweed*
Russian thistle	Hedge bindweed
Sow thistle	Mustards (wild, ball, tall, wormseed, yellow)
Corn spurry	Volunteer cultivated
Knotweed	Buckwheat
Cocklebur	Volunteer canola*****
Stinkweed	
Kochia	

*including triazine resistant weeds

Hard to Kill

Cow cockle	Shepherd's-purse
Field bindweed**	Tartary buckwheat
Flixweed	Velvetleaf
Jerusalem artichoke*	

Suppression Only

Cleavers***	Round-leaved mallow
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Top Growth Control Only

Canada thistle****

Notes

- * Refer to the section "Jerusalem Artichoke Control in Corn".
- ** Best results are obtained when **DyVel DS_P** Herbicide is applied to field bindweed when it is actively flowering.
- *** Best results will be obtained on cleavers if applied when this weed is in the first to second whorl stage.
- **** Refer to the section "Program for the Gradual Eradication of Canada Thistle".
- ***** Best results will be obtained if application is made prior to the bolting of canola, when this weed is at the 2 - 4 leaf stage.

For best results, apply when weeds are actively growing and are in the 2 to 3 leaf stage. Use the **low rate** for the easy to kill weeds, when weed densities are low and growing conditions are optimum.

Use the **high rate** for the hard to kill weeds, (a) for suppression of cleavers and round-leaved mallow, (b) for top growth control of Canada Thistle, (c) when weeds are at an advanced stage of growth, (d) when weed densities are high or (e) under adverse weather conditions.

Rate of Application

Spring and winter wheat
 Barley
 Corn
 Crop-free land (stubble fields and summerfallow)
 Roadsides, pasture lands

Rate per Hectare

850 mL - 1.1 litres
 850 mL
 850 mL - 1.1 litres
 1.1 - 1.75 litres
 3.25 litres

Spray Volume

Spring and winter wheat
 Barley
 Corn

Water Volume per Hectare

100 litres
 100 litres
 200 - 350 litres

Timing of Application

Spring wheat
 Winter wheat

3 - 5 leaf stage
 Examine crop for weeds as soon as growth starts in the spring. Winter annual weeds, such as flixweed, stinkweed and shepherd's-purse, should be sprayed early while they are in the rosette stage. Spray before the crop is more than 30 cm high (top leaf extended).

Barley

2 to 3 leaf stage

DyVel DS_p HERBICIDE + EVEREST® 70 DF HERBICIDE TANK MIX

For control of wild oats and green foxtail populations in spring wheat, **DyVel DS_p** Herbicide can be tank-mixed with Everest Solupak 70 DF.

Rate of Application	Rate per Hectare
Spring wheat	850 mL DyVel DS_p Herbicide + 43 g Everest Solupak 70 DF* + 0.25% v/v Agral® 90 or Ag-Surf® adjuvant

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

Please consult the Everest Solupak 70 DF label for additional precautions and restrictions.

Corn (Field and Sweet)

Early Post Emergent Application

Apply **DyVel DS_p** Herbicide as a broadcast application before corn reaches 15 cm in height (top leaf extended) and before the broadleaf weeds* reach 10 cm in height. Apply in a minimum of 200 litres of water per hectare. Minimize drift by applying at the lowest pressure that gives complete coverage of the crop and weeds with spray tips that generate coarse droplets.

*Includes triazine tolerant broadleaf weeds.

DyVel DS_p Herbicide can be tank-mixed with Aatrex® Liquid 480 Herbicide for control of both broadleaf weeds* and annual grasses. Apply when corn is 5 to 10 cm in height and before the broadleaf weed reaches 10 cm in height and the annual grasses exceed the two leaf stage. Apply **DyVel DS_p** Herbicide at 850 mL - 1.1 litres per hectare plus Aatrex Liquid 480 Herbicide at 2.25 L per hectare.

Consult the product labels to be tank-mixed with **DyVel DS_p** Herbicide for specific recommendations. Adhere to these product labels for precautions, warnings, restrictions, tank-mixing and spraying instructions, rotational crops and detailed directions for use.

Directed Post Emergent Application

If the crop is beyond 30 cm in height, apply **DyVel DS_p** Herbicide using drop nozzles. Do not allow the spray solution to contact the corn stalk above the point where the first leaf meets the stem. Apply in 250-300 litres of water per hectare. Minimize drift by spraying at a pressure of no more than 150 kPa with spray tips that generate coarse droplets. If weeds are well advanced a supplemental cultivation preceding or during application may be beneficial.

PRE-HARVEST INTERVALS

Wheat, barley, corn

- DO NOT permit lactating dairy animals to graze fields within 7 days after application.
- DO NOT harvest as forage within 30 days after application.
- Withdraw meat animals from treated fields at least 3 days before slaughter.

Note

Under certain environmental conditions (e.g., extended periods of either cold or hot dry weather), corn may become brittle after applying **DyVel DS_p** Herbicide. Do not cultivate for two weeks following application. Heavy winds during the two week period following application may cause some stalk lodging.

DyVel DS_p Herbicide is not to be applied in the growth interval between 15 and 30 cm of corn.

JERUSALEM ARTICHOKE CONTROL IN CORN

DyVel DS_p Herbicide will control Jerusalem artichoke, when applied in a "TWO YEAR CONTINUOUS CORN PROGRAM". Failure to follow the "Two Year Continuous Corn Program" will result in decreased control of the weed.

Year 1

Apply **DyVel DS_p** Herbicide at 1.1 litres per hectare when Jerusalem artichoke is 30-45 cm in height, following instructions and precautions listed under the section "DIRECTED POST EMERGENT APPLICATION". Re-apply **DyVel DS_p** Herbicide at 1.1 litres per hectare 10 -14 days following the initial application mentioned above.

Year 2

Repeat the entire Year 1 program.

CAUTION

Do not cultivate infested areas of Jerusalem artichoke as this will spread tubers and rhizomes and result in decreased control.

ROADSIDES AND PASTURE LANDS

For control of a wide range of broadleaf weeds, including bull thistle, chicory, goat's-beard, ragwort, white cockle plus poison ivy, alders and sheep-laurel, apply **DyVel DS_p** Herbicide at 3.25 litres per hectare in sufficient water for good coverage. For best results, apply in the spring when weeds are actively growing.

DO NOT apply on freshly seeded grasses and pastures until established. There is a possibility that plants poisonous to livestock will appear more palatable and could be grazed more readily after treatment (e.g. tansy ragwort, water hemlock, poison hemlock, death camas). Suitable precautions should be taken when such plants are present. Livestock should not be allowed to graze the treated area until poisonous plants have been removed, are dead or have resumed a normal growth habit.

DO NOT apply to a pasture land where legumes are present. Most legumes may be damaged or killed by this product.

Pre-Harvest Intervals

Stubble land, roadsides, pasture lands and uncropped land

- DO NOT permit lactating dairy animals to graze fields within 7 days after application.
- DO NOT harvest forage or cut for hay within 30 days after application.
- Withdraw meat animals from treated fields at least 3 days before slaughter.

PROGRAM FOR THE GRADUAL ERADICATION OF CANADA THISTLE

Year 1

In Stubble Fields

Apply **DyVel DS_P** Herbicide at 1.1-1.75 litres per hectare to Canada thistle regrowth. Treatment at the 15-20 cm stage of actively growing Canada thistle will provide the best results. Do not apply within 2 weeks of a killing frost.

In Summerfallow Fields

Apply **DyVel DS_P** Herbicide at 1.1-1.75 litres per hectare when Canada thistle is in the early bud stage. Do not cultivate for a minimum of 4 weeks after application.

Year 2

Next spring apply **DyVel DS_P** Herbicide at 850 mL - 1.1 litres per hectare when weeds are young and actively growing. See section on “Rate of Application” for rates recommended for specific crops.

Note

Continuation of this program will gradually eliminate Canada thistle.

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, **DyVel DS_P** Herbicide is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to **DyVel DS_P** 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 DS_P** 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.

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

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If phenoxy susceptible plants are growing within a distance of 400 m from the area being sprayed, spray only when there is a light breeze away from the susceptible plants. Susceptible crops include grapes, tomatoes, tobacco, sugar beets, sunflowers, beans, soybeans, turnips, cauliflower and cabbages, as well as many other field, vegetable, ornamental and fruit crops. Spray drifting can be reduced by using high volume sprays under low pressure, coarse sprays and drop nozzles. Sprayers which have contained **DyVel DS_p** Herbicide should not be used to apply other pesticides to phenoxy susceptible crops.

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