

GROUP	<b>4</b>	HERBICIDE
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## TARGET<sup>®</sup> DS LIQUID HERBICIDE

AGRICULTURAL

**GUARANTEE:**

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

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

**CAUTION**



**POISON**

**PROTECT FROM FREEZING  
SHAKE WELL BEFORE USE**

REGISTRATION NO.: **27987**  
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **10 L**

**Syngenta Canada, Inc.**  
140 Research Lane, Research Park  
Guelph, ON N1G 4Z3  
Telephone: 1-877-964-3682

**LABEL**

## 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.

## FIRST AID

**IF POISONING IS SUSPECTED, IMMEDIATELY** contact a physician or a poison control center. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**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 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.

## TOXICOLOGICAL INFORMATION

Eye contact with the undiluted product will cause severe irritation. It may cause irritation to the skin and mucous membranes. Overexposure may cause dizziness, muscle weakness, loss of appetite, weight loss, vomiting, decreased heart rate, shortness of breath, excitement, tenseness, depression, incontinence, cyanosis, muscle spasms, exhaustion, loss of voice, coughing, burning, and/or temporary loss of muscle co-ordination. Other possible effects of overexposure include fatigue, or nausea. Treat symptomatically.

## PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

Avoid breathing spray or spray mist and avoid contact with skin. Keep in original container during storage. Destroy empty container. 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, cauliflowers 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 TARGET DS 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. Store the container tightly closed away from seeds,

feeds, fertilizers, plants and foodstuffs, and other pesticides including insecticides, fungicides, and weed killers other than those containing 2,4-D, MCPA or brushkillers.

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 website at [www.croplife.ca](http://www.croplife.ca).

## **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. sand, loamy sand and sandy loam soils) and/or the depth to the water table is shallow.

## **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 application of this product when heavy rain is forecast.

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

## **PROTECTIVE CLOTHING AND EQUIPMENT**

Mixers/loaders must wear coveralls over a long-sleeved shirt, long pants, and chemical-resistant gloves. When handling more than 265 kg a.e. of 2,4-D per day workers must also use a closed system. Applicators must wear chemical-resistant gloves and coveralls over a long-sleeved shirt and long pants. Chemical-resistant gloves must also be worn during clean-up and repair activity. Coveralls should also be worn when open pouring from containers.

Gloves are not required during application when applicator is in an enclosed tractor.

## **OPERATOR USE PRECAUTIONS**

- DO NOT APPLY BY AIR.
- Wear freshly laundered clothing and clean protective equipment daily.
- Rinse gloves before removal.
- Wash hand 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 separate from household laundry.
- After work, remove all clothing and shower using soap and water.

## **DECONTAMINATION AND DISPOSAL**

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.

### **CONTAINER DISPOSAL:**

#### **FOR DISPOSAL OF PLASTIC JUGS:**

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.

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,  
CALL 1-800-327-8633 (FASTMED)***

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## **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 application of this product when heavy rain is forecast.

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.

### Rotational Crop Restriction



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

## **TARGET DS LIQUID HERBICIDE**

FOR SYSTEMIC CONTROL OF MANY BROADLEAF WEEDS IN SPRING AND WINTER WHEAT, BARLEY (NOT UNDERSEEDED TO LEGUMES), CORN, CROP-FREE LAND (STUBBLE FIELDS AND SUMMER FALLOW) AND ROADSIDES.

### **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 Buckwheat
Knotweed	Kochia
Cocklebur	Volunteer Canola(1)
Stinkweed	

\*Including triazine resistant weeds

#### **Hard-to-Kill**

Cow Cockle	Field Bindweed (3)
Tartary Buckwheat	Flixweed
Shepherd's-purse	Velvetleaf
Jerusalem Artichoke (2)	

#### **Suppression Only**

Cleavers (4)  
Round-leaved Mallow

#### **Top Growth Control Only**

Canada Thistle (5)

#### **NOTE:**

- 1) 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.
- 2) Refer to the section "Jerusalem Artichoke Control in Corn".
- 3) Best results are obtained when TARGET DS is applied to Field Bindweed when it is actively flowering.
- 4) Best results will be obtained on cleavers if applied when this weed is in the first to second whorl stage.
- 5) Refer to the section "Program for the Gradual Eradication of Canada Thistle".

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.

#### 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 and ground.

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

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

#### **RATE OF APPLICATION**

	<u>RATE PER HECTARE</u>
Spring and Winter Wheat	850 mL - 1.1 L
Barley	850 mL
Corn	850 mL - 1.1 L
Crop-free Land (stubble fields and summer fallow)	1.1 - 1.75 L
Roadsides	3.25 L

#### **SPRAY VOLUME**

	<u>WATER VOLUME PER HECTARE</u>
Spring and Winter Wheat, Barley	100 L
Corn	200 - 350 L

#### **TIMING OF APPLICATION**

DO NOT apply more than once per year.

**SPRING WHEAT:** 3 to 5-leaf stage. DO NOT apply more than once per year.

**WINTER WHEAT:** 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  
DO NOT apply more than once per year.

#### **PRE-HARVEST INTERVALS (cereals)**

- Do not permit lactating dairy animals to graze fields within seven (7) days after application.
- Do not harvest as forage or cut hay within 30 days after application.
- Withdraw meat animals from treated fields at least 3 days before slaughter.

**CORN (Field and Sweet):****Early Post-Emergent Application**

DO NOT apply more than once per year. Apply TARGET DS 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.

TARGET DS can be tank mixed with AATREX<sup>®</sup> Liquid 480 for control of both broadleaf weeds\* and annual grasses. Apply when corn is 5 to 10 cm in height and before the broadleaf weeds reach 10 cm in height and the annual grasses exceed the two-leaf stage. Apply TARGET DS at 850 mL - 1.1 L per hectare plus either AAtrex Liquid at 2.25 L per hectare.

\*Includes triazine tolerant broadleaf weeds.

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

**CORN (Field and Sweet):****Directed Post-Emergent Application**

If the crop is beyond 30 cm in height, apply TARGET DS 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 L 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.

**NOTE:**

Under certain environmental conditions (eg. extended periods of either cold backward or hot dry weather), corn may become brittle after applying TARGET DS. Do not cultivate for two weeks following application. Heavy winds during the two-week period following application may cause some stalk lodging.

Consult your cannery for sweet corn varieties which may be susceptible to 2,4-D.

TARGET DS is not to be applied in the growth interval between 15 and 30 cm of corn.

**RESTRICTED ENTRY INTERVAL (REI)**

- All crops- 12-hour REI
- Corn (sweet)- 14-day REI for hand harvesting
- DO NOT detassel sweet corn by hand

**PRE-HARVEST INTERVALS (field and sweet corn)**

- Do not permit lactating dairy animals to graze fields within seven (7) days after application.
- Do not harvest as forage or cut hay within 30 days after application.
- Withdraw meat animals from treated fields at least 3 days before slaughter.

**WARNING:**

DO NOT APPLY TARGET DS BY AIR.

Do not add surfactants, emulsifiable oils or oil concentrates to TARGET DS.

Do not apply TARGET DS when temperatures are above 27°C and the relative humidity is very high.

Do not apply TARGET DS if wind velocity exceeds 8 km/hr.  
Spray TARGET DS only when wind is blowing away from susceptible adjacent crops.

**JERUSALEM ARTICHOKE CONTROL IN CORN:**

TARGET DS 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 TARGET DS at 1.1 L 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 TARGET DS at 1.1 L/ha, 10 - 14 days following the initial application mentioned above.

**YEAR 2**

Repeat the entire Year 1 program.

**CAUTION:**

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

**ROADSIDES:**

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 TARGET DS at 3.25 L per hectare in sufficient water for good coverage. For best results, apply in the spring when weeds are actively growing. For high volume handwand applications, applicators must limit volume of solution used per day to 400L (broadleaf control spot treatment only).

**PRE-HARVEST INTERVALS (roadsides)**

- Do not permit lactating dairy animals to graze fields within seven (7) days after application.
- Do not harvest as forage or cut 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 TARGET DS at 1.1 - 1.75 L 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.

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.

DO NOT apply more than twice per year.

### **In Summerfallow Fields**

Apply TARGET DS at 1.1 - 1.75 L per hectare when Canada thistle is in the early bud stage. Do not cultivate for a minimum of 4 weeks after application.

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.

DO NOT apply more than twice per year.

### **YEAR 2**

Next spring apply TARGET DS at 850 mL - 1.1 L 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.

### **BUFFER ZONES**

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, 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.

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 habitats.

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.

Uses of the following spray methods or equipment DO NOT require a buffer zone: handheld or backpack sprayer and spot treatment.

Method of application	Crop	Buffer zones* (metres) required for the protection of:				
		Freshwater habitat of depths:		Eustuarine/marine habitats of depths:		Terrestrial habitats:
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer*	Barley (2-4 leaf stage), wheat (durum and winter), corn	1	1	1	0	4
	Barley, oats (3-leaf stage), wheat (spring), stubble fields, summerfallow	1	1	1	1	5
	Pastures, 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 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%.

\*\*Buffer zones for the protection of terrestrial habitats are not required for use on roadsides.

### 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 TARGET DS 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 set back when this herbicide is applied. However, the crop injury that may occur is normally offset by the weed control obtained.

### Resistance-Management Recommendations

For resistance management, TARGET DS Herbicide is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to TARGET DS 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 TARGET DS 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 company representatives at 1-877-SYNGENTA (1-877-964-3682) or at [www.syngenta.ca](http://www.syngenta.ca).

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