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GROUP	2	HERBICIDE
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TELAR® XP HERBICIDE

DRY FLOWABLE

FOR SALE FOR USE IN TOTAL VEGETATION CONTROL PROGRAMS ON RAILROADS, UTILITY AND HIGHWAY RIGHTS OF WAY, AIRPORTS, PLANT SITES, STORAGE AREAS, PETROLEUM TANK FARMS, FENCELINES AND UTILITY SUB STATIONS, AND ONLY FOR SELECTIVE WEED CONTROL IN ROUGH TURF IN EASTERN CANADA

COMMERCIAL

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

GUARANTEE: Chlorsulfuron 75%

WARNING: CONTAINS THE ALLERGENS MILK AND SULFITES

REGISTRATION NO.: 30036 PEST CONTROL PRODUCTS ACT

CAUTION



POISON

NET CONTENTS: 6 grams – 25 kg

Bayer CropScience Inc.
Suite 200 - 160 Quarry Park Blvd. SE
Calgary, AB T2C 3G3
1-888-283-6847

PRECAUTIONS:

- **KEEP OUT OF REACH OF CHILDREN.**
- Avoid breathing spray mist.
- Avoid contact with skin, eyes and clothing.
- Do not contaminate any body of water.
- Wear a long-sleeved shirt, long pants, shoes and socks during mixing, loading, application, clean-up and repair activities.
- Do not apply this product in a way that will cause this product to contact workers or other persons, either directly or through drift. Only handlers (mixers, loaders and applicators) wearing personal protective equipment may be in the area being treated during application.
- Do not enter or allow worker entry into treated areas for 12 hours following application and until sprays have dried.
- **DO NOT APPLY BY AIR.**

FIRST AID:**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 ON SKIN OR CLOTHING:

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

IF INHALED:

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

IF 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.

For medical emergencies call 1-800-441-3637 (24 hours).

TOXICOLOGICAL INFORMATION: Treat symptomatically.

STORAGE:

Store product in original container only, away from other pesticides, fertilizer, food or feed. Not for use or storage in or around the home. Keep container closed.

ENVIRONMENTAL HAZARDS:

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

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

DISPOSAL:

Non-recyclable, non-returnable or non-refillable containers:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. 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 further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

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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IMPORTANT

Injury to or loss of desirable trees or vegetation may result from failure to observe the following:
Do not apply, drain, or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. Do not use on lawns, walks, driveways, tennis courts, or similar areas. Prevent drift of spray to desirable plants. Do not contaminate any body of water, including irrigation water that may be used on crops.

TELAR® XP Herbicide is recommended for the control of certain annual, biennial and perennial broadleaf weeds on non-crop land where vegetation is not desirable, such as lumber yards, petroleum tank farms, plant sites, railroads and storage areas, throughout Canada.

TELAR® XP Herbicide may also be applied to rough turf areas in Eastern Canada such as roadsides, airports, industrial sites, and utility rights of way; Do not use on fine turf lawns.

To avoid washing of the herbicide to non-target areas, avoid applying TELAR® XP Herbicide during extremely rainy periods or when soils have been heavily saturated. Do not apply to sites that slope into fields unless the areas are separated by a ditch. Do not spray where run-off may carry the herbicide onto agricultural land or other desirable plantings or into any water sources that may be used for irrigation purposes.

GENERAL INFORMATION

TELAR® XP Herbicide should be used only in accordance with recommendations on this label, or in separate published DuPont recommendations available through local dealers.

Rainfall, soil temperature, and soil pH are important factors affecting TELAR® XP Herbicide breakdown in soil. TELAR® XP Herbicide breakdown is more rapid under conditions of low soil pH, high soil temperature, and high soil moisture. The breakdown process is slower under conditions of high soil pH, low soil temperature and low soil moisture.

TELAR® XP Herbicide controls susceptible annual weeds by both foliar and root uptake. Best control of emerged annual weeds is obtained when weeds are actively growing, and when TELAR® XP Herbicide is applied to small weeds (less than 10 cm tall). Warm, moist growing conditions promote active weed growth and enhance the activity of TELAR® XP Herbicide; weeds stressed by moisture or temperature extremes may be less susceptible and incomplete weed kill may result. Residual control of weeds germinating after spray application is achieved when TELAR® XP Herbicide is carried into the root zone by rainfall. For best results, sufficient rainfall to move TELAR® XP Herbicide 5 to 7 cm deep into the soil is required after application, before weeds develop an established root system and grow beyond the seedling stage.

TELAR® XP Herbicide rapidly inhibits growth of susceptible weeds. However, typical symptoms (discolouration) of dying weeds may not be noticeable for 1 to 3 weeks after application depending on growing conditions and weed susceptibility. Degree of control, and duration of effect depend on the rate used, weed sensitivity and weed size, growing conditions at and following treatment, precipitation, soil organic matter and pH.

DIRECTIONS FOR USE

BROADLEAF WEED CONTROL IN TOTAL VEGETATION CONTROL PROGRAMS

TELAR® XP Herbicide may be used for control of susceptible annual, biennial and perennial weeds on sites throughout Canada where the objective is to achieve and maintain control of all vegetation.

TELAR® XP HERBICIDE PLUS KROVAR® I HERBICIDE TANK MIXTURE:

Apply 120 grams/ha of TELAR® XP Herbicide tank mixed with KROVAR® I at 6.75-9.0 kg/ha. Apply when weeds are small (less than 10 cm tall). A recommended surfactant may be added at 1 L per 1000 L spray solution to improve activity on emerged vegetation. Refer to the section "SPRAY PREPARATION" for information on proper mixing sequence. Also refer to the KROVAR® I label for relevant precautions or restrictions.

PROGRAMS WITH SOIL-ACTIVE HERBICIDES FOR TOTAL VEGETATION CONTROL:

TELAR® XP Herbicide may be applied sequentially with products registered for non-selective control of weeds on non-crop land, such as atrazine, HYVAR® X, HYVAR® X-L, KARMEX® DF, KROVAR® I, PRINCEP®, or VELPAR® Herbicide. Apply TELAR® XP Herbicide at 30, 40, 70 or 120 grams/ha, or TELAR® XP Herbicide at 15 grams/ha tank mixed with 2,4-D Amine 500 at 0.8-1.1 litres per hectare or 2,4-D Ester LV 700 at 0.6 - 0.8 L per hectare, postemergence when weeds are small (less than 10 cm tall). Refer to the "WEEDS CONTROLLED" section to determine appropriate rate for the target weeds. Addition of a recommended surfactant at 1 L/1000 L spray solution may improve control of weeds growing under adverse conditions. Refer to the "SPRAY PREPARATION" section. TELAR® XP Herbicide must be applied within one year of the sequential partner herbicide, or otherwise the sequential partner must follow TELAR® XP Herbicide application within 1 year. Do not apply to frozen ground or to soils saturated with water or during periods of heavy rainfall. Do not apply TELAR® XP Herbicide more often than once every three years. Do not apply consecutive applications of TELAR® XP Herbicide without alternating with a sequential partner herbicide. These precautions are necessary to prevent selection of weed biotypes resistant to TELAR® XP Herbicide.

SELECTIVE WEED CONTROL IN ROUGH TURF* (EASTERN CANADA ONLY):

TELAR® XP Herbicide may be applied to rough turf areas at 30, 40 or 70 grams/ha, or at 15 grams/ha tank mixed with either 2,4-D Amine 500 at 0.8-1.1 litres per hectare or 2,4-D Ester LV 700 at 0.6-0.8 L per hectare (or acid equivalent) plus a recommended surfactant at 1 L /1000 L spray solution. Refer to the table "WEEDS CONTROLLED" to determine the rate necessary for the weeds to be controlled. Temporary chlorosis, height reduction or growth suppression of grass species may occur. Severe injury may occur to desirable broadleaf species such as red clover, alfalfa, vetch and birdsfoot trefoil. Do not apply to frozen ground or to soils saturated with water or during periods of heavy rainfall.

* Rough turf is defined as areas where coarse grass species are the dominant form of vegetation. Rough turf is normally not pastured and receives little or no maintenance other than mowing.

WEEDS CONTROLLED:

at 15 g/ha + 2,4-D	at 30 g/ha	at 40 g/ha
Redroot Pigweed	Redroot Pigweed	Weeds controlled at 30 g/ha plus:
Russian Pigweed	Prickly Lettuce	Wild Carrot
Shepherd's purse	Shepherd's purse	
Russian Thistle	Scentless Chamomile	
Lamb's Quarters	Lamb's Quarters	
Volunteer rapeseed	Volunteer rapeseed	
Narrow-Leaved Hawk's-beard (spring seedlings)	Stork's Bill	
Stork's Bill	Wild Mustard	

Common Ragweed	Hemp Nettle	
Kochia	Lady's Thumb	
Prickly Lettuce	Green Smartweed	
Wild Mustard	Flixweed	
Ball Mustard	Cow Cockle	
Hemp Nettle	Common Groundsel	
Plantain	Corn Spurry	
Lady's Thumb	Common Chickweed	
Green Smartweed	Stinkweed	
Flixweed		
Cow Cockle		
Stinkweed		
Annual Sunflower		
Sweet Clover		

at 70 g/ha

Weeds controlled at 40 g/ha plus:

Russian Thistle	Perennial Sow Thistle	Common Groundsel
Canada Thistle [†]	Dandelion [†]	Sweet Clover
Wild Strawberry [†]	Horsetail	Golden Rod [†]
Kochia	Wild Rose [†]	
[†] Suppression Only		

Broadleaf Weed Control in Non-Crop Land (where vegetation is not desirable). This rate of TELAR® XP Herbicide may cause severe injury for certain grass species.

Weeds Controlled at 120 g/ha

Weeds controlled at 70 g/ha plus:

Canada Thistle	Horsetail	
Narrow-leaved Hawk's-beard	Wild Rose [†]	
Wild Strawberry [†]	Wild Buckwheat	
Sow Thistle [†]	Willow [†]	
Dandelion	Goldenrod [†]	
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Broadleaf weed control in Non-Crop Land (where vegetation is not desirable). This rate of TELAR® XP Herbicide may cause severe injury for certain grass species.

SPRAY PREPARATION:

1. Select a spray volume that will ensure thorough coverage and uniform spray pattern. Do not use less than 100 L of water per hectare. Spray volumes of 200-400 L per hectare are recommended.
2. Fill the spray tank 1/4 to 1/3 full with fresh water.
3. Add the recommended amount of TELAR® XP Herbicide to the spray tank while agitator is running. Continuous agitation is required to keep TELAR® XP Herbicide in suspension.

4. After TELAR® XP Herbicide is in suspension, other tank mix components may be added while continuing to fill the tank with water. The proper sequence for tank mix components is:
 - I. dry formulations
 - II. emulsifiable concentrates
 - III. surfactants (recommended surfactants are AG-SURF*, AGRAL* 90, CITOWETT* PLUS and COMPANION*)

If a drift control agent is to be tank mixed, it is to be added last.

5. For repeat loads, reduce the tank heel to 10% or less of the previous load. Fill tank with fresh water as described in step 1, and continue as directed. Emulsifiable concentrates may make dispersion of TELAR® XP Herbicide more difficult. For that reason, tank heels of the previous tank mix should be kept to 10% or less of the spray tank volume.
6. Do not allow the spray mixture to remain in the tank for more than 24 hours before spraying or the effectiveness may be reduced. If the spray mixture has been allowed to stand in the tank, use vigorous agitation to thoroughly disperse before resuming spraying.

SPRAYER CLEAN-UP:

If the sprayer is to be used to spray sensitive crops or ornamentals, thoroughly remove all traces of TELAR® XP Herbicide from the mixing and spray equipment immediately after spraying as follows:

1. Drain tank and flush tank, boom and hoses with clean water for a minimum of ten minutes. Visually inspect tank to assure removal of all visible residues of TELAR® XP Herbicide. If necessary, repeat step 1. **DO NOT CLEAN SPRAYER NEAR WELL OR WATER SOURCE OR NEAR TO DESIRABLE VEGETATION.**
2. Fill the tank with clean water while adding 1 litre household ammonia (containing a minimum 3% ammonia) per 100 litres of water. Flush solution through boom and hoses, and then add more water to completely fill tank. Allow to sit for 15 minutes with agitation. Again flush the hoses, boom and nozzles with the cleaning solution and drain tank.
3. Remove the nozzles and screens and clean separately in a bucket containing cleaning agent and water.
4. Repeat Step 2.
5. Thoroughly rinse the tank with clean water for a minimum of 5 minutes, flushing water through the hoses and boom.

CAUTION:

Do not use ammonia with chlorine bleach. Using ammonia with chlorine bleach will release a gas with a musty chlorine odour, which may cause eye, nose, throat, and lung irritation. Do not clean equipment in an enclosed area.

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 applications to rights-of-way, 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.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands) and sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands).

Method of Application	Crop	Buffer Zones (m) Required for Protection of:		
		Freshwater Habitats of Depths:		Terrestrial Habitats**
		Less than 1m	Greater than 1m	
Field Sprayer*				
	Non-croplands	5	3	75

* 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 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.

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.

USE PRECAUTIONS:

- Do not contaminate irrigation water.
- Do not use in areas where erosion might move treated soils into streams, lakes or ponds.
- Do not use on highly variable soils that have large gravelly or sandy areas, eroded knolls or calcium deposits.
- Do not spray over running water in ditches.
- Do not spray over standing water in ditches if that supply is used for irrigation.
- Apply the spray mixture with ground equipment only. **DO NOT APPLY BY AIR.**
- Do not allow spray to drift onto agricultural land or severe crop injury may result. Extreme care must be taken to prevent drift.
- **DO NOT** apply this product more than once per growing season.
- **DO NOT** apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands), estuarine/marine habitats.
- **DO NOT** contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.
- **DO NOT** apply by air.

- 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 Agriculture Engineers (ASAE) coarse classification. Boom height must be 60 cm or less above the crop or ground.

RESISTANCE-MANAGEMENT RECOMMENDATIONS:

For resistance management, TELAR® XP Herbicide is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to TELAR® XP Herbicide and other Group 2 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance:

- ◆ Where possible rotate the use of TELAR® XP Herbicide or other Group 2 herbicides with different herbicide groups that control the same weeds in a field.
- ◆ Use tank mixtures with herbicides from a different groups 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 your local DuPont representative or the DuPont hotline at 1-800-667-3925 for further information

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