

# Trillion® OS

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HERBICIDE

SOLUTION

**COMMERCIAL**

REGISTRATION NO: 35733  
PEST CONTROL PRODUCTS ACT

**ACTIVE INGREDIENTS:**

2,4-D (present as dimethylamine salt) . . . 190 g /L  
Mecoprop-P (present as dimethylamine salt) . . . 100 g /L  
Dicamba (present as dimethylamine salt) . . . 18 g /L

**READ THE LABEL AND BOOKLET BEFORE USING**  
**KEEP OUT OF REACH OF CHILDREN**  
DO NOT FREEZE



CAUTION

POISON

**10 Litres**

**Nufarm Agriculture Inc.**  
5101, 333 - 96th Ave NE  
Calgary, Alberta T3K 0S3

For product information: 1-800-868-5444  
24 Hour Emergency Response Number 1-800-424-9300

Trillion® is a registered trademark of Nufarm Agriculture Inc.

**PRECAUTIONS:**

KEEP OUT OF REACH OF CHILDREN.

Avoid contact with skin, eyes or clothing.

**PROTECTIVE CLOTHING AND EQUIPMENT:**

**When mixing/loading**, wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and 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 handling more than 1395 L per day of Trillion® OS, workers must also use a closed system.

**When applying the dilute spray solution or during clean-up or repairing equipment**, 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 applicator is in an enclosed tractor.

**Application Using Groundboom Equipment:** Applicators must wear coveralls over a long-sleeved shirt and long pants. Chemical-resistant gloves must also be worn during clean-up and repair activities.

**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.

**Application Precautions:**

Do not apply during hot, dry spells. Do not mow for at least three days before spraying. Do not spray if rain is forecast.

Apply only when there is little or no hazard from spray drift. Small quantities of the spray, which may not be visible, may seriously injure susceptible crops such as cabbage, cauliflower, beans, turnips, tomatoes and many other broadleaf fruits, ornamentals and vegetables.

Do not use a sprayer which has contained Trillion OS for spraying another pesticide on susceptible crops. Keep in original container. Do not store near seeds, fertilizers, insecticides, fungicides, feed or food.

**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 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 center 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. Overexposure to 2,4-D may cause coughing, burning, dizziness, loss of appetite, weight loss, vomiting, decreased heart rate, shortness of breath, excitement, tenseness, depression, incontinence, cyanosis, muscle spasms, exhaustion, loss of voice or temporary loss of muscle coordination. Other possible effects of overexposure include fatigue, muscle weakness or nausea.

Treat symptomatically.

**EMERGENCY TELEPHONE NUMBERS:**

For spills or transportation accidents, Chemtrec, 1-800-424-9300.

For health or environmental emergencies, ProPharma Group, 1-877-325-1840.

For product and use information, Nufarm Agriculture Inc., 1-800-868-5444.

**ENVIRONMENTAL PRECAUTIONS:**

Toxic to birds. Toxic to small wild mammals. Toxic to aquatic organisms and non-target terrestrial plants.

Observe spray 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:**

This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

**RUN-OFF:**

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 filter strip between the treated area and the edge of the water body.

**STORAGE:**

Keep in original container. Do not store near seeds, fertilizers, insecticides or fungicides.

Store this product away from food or feed. DO NOT FREEZE.

**DISPOSAL:****For 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/territorial requirements.

**For Returnable Containers:**

DO NOT reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

**For 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/territorial regulatory agency. Contact the manufacturer and the provincial/territorial 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.

**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 contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

**Weeds Controlled:** Dandelions, plantain, black medick (yellow clover), buttercup, chickweed, clover, English daisy, ground daisy, ground ivy (creeping Charlie, knotweed, ironweed), poison ivy, ragweed, shepherd's-purse, bedstraw, heal-all, devil's paint brush.

**Turf (other than bentgrass):** On established turf, apply at the rate of 60mL per 100m<sup>2</sup> in 10L of water. For larger areas apply at the rate of 5.5 L per hectare in 300L of water.

**For bentgrass:** Apply at a half rate - 30mL per 100m<sup>2</sup> in May or late August and September. Slight yellowing will occur but will disappear after about 1 week. Do not overdose bentgrass as damage or kill may occur. Make sure correct rate is applied to the whole area treated. Use 20L of water per 100m<sup>2</sup>. When spraying bentgrass use only a one nozzle sprayer. Make sure spray application does not overlap or excess material will be applied to overlapped areas and damage is more likely to occur.

**Maximum Application Frequency:**

DO NOT apply more than two broadcast applications per season. This does not include spot treatments.

For best results apply when weeds are growing quickly, May and early June, and late August and September. On irrigated or watered areas where weeds are not under drought stress and hard to kill, apply any time. Application during drought or when weeds are under stress will result in poorer control. Do not water turf within 24 hours of application. Do not apply to newly seeded lawns. Wait until after the third mowing.

If weed populations do not warrant a broadcast application (e.g., entire lawn), consider spot treatments that target only weedy areas.

This product is only effective when applied to the leaves of actively growing weeds. This product will not prevent new weeds - apply only when weeds are present.

Grass seed can be safely sown 1 to 2 weeks after application at recommended rate.

**Re-entry Interval for Turf:**

Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treated areas until spray has thoroughly dried.

**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 S572.1) coarse classification. Boom height must be 60 cm or less above the crop or ground.

DO NOT APPLY BY AIR.

**Tank Mixtures:**

This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions for Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Nufarm Agriculture Inc. at 1-800-868-5444 for information before applying any tank mix that is not specifically recommended on this label.

**Spray Buffer Zones:**

A spray buffer zone is NOT required for:

- uses with hand-held application equipment permitted on this label.

The spray 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), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

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

Method of application	Crop	Spray 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	Turf in parks	1	1	1	1	5
	Golf courses, established turf or lawn	1	1	2	1	10

When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray 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.

The spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Pesticides portion of the Canada.ca website

### **RESISTANCE MANAGEMENT RECOMMENDATIONS:**

For resistance management, Trillion OS is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to Trillion OS 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 Trillion OS 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 possibly 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 and to report suspected resistance, contact Nufarm Agriculture Inc. company representatives at 1-800-868-5444 or at [www.nufarm.ca](http://www.nufarm.ca)

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