

2015-0983
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Container

CIVITAS TURF DEFENSE™ Ready-2-Mix

Solution

COMMERCIAL

GUARANTEE: MINERAL OIL 98.0%

REG. NO. 29825 P.C.P. ACT

READ THE LABEL BEFORE USING
KEEP OUT OF REACH OF CHILDREN

NET CONTENTS: 1 L - 1090 L

Intelligro
2310 Lakeshore Road West
MISSISSAUGA, ONTARIO, L5J 1K2 CANADA
1-855-300-3997
™Trademark of Suncor Energy Inc. Used under licence.

Patent(s): www.suncor.com/patents

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. May be harmful if swallowed or inhaled. Avoid contact with eyes, skin and clothing. Minimize breathing mists or vapours. Wash exposed skin thoroughly after using.

Wear long sleeved shirt, long pants, chemical-resistant gloves (such as barrier laminate or Nitrile rubber, Neoprene rubber or Viton) and shoes plus socks during mixing, loading, application, clean-up and repair. Apply only when the potential for drift to areas of human habitation or areas of human activity, such as houses, cottages, schools, and recreational areas, is minimal. Take into consideration wind speed, wind direction, temperature inversion, application equipment, and spray settings. Do not enter or allow others to enter treated golf course turf until sprays have dried.

Ensure **CIVITAS TURF DEFENSE Ready-2-Mix** is applied prior to line painting on sports turf and athletic fields. Wait until product has thoroughly dried prior to re-entry to avoid staining.

FIRST AID

IF SWALLOWED: Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

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.

Take the container label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

Treat symptomatically. This product contains petroleum distillates. Vomiting may cause aspiration pneumonia.

ENVIRONMENTAL HAZARDS

TOXIC to aquatic organisms. 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.

SPILL CONTROL

Avoid contact. Eliminate all ignition sources. Ventilate confined spaces. Absorb with an inert material. Place in appropriate waste disposal container. Contain spill. **DO NOT FLUSH TO SEWER.** Check with applicable jurisdictions for specific disposal requirements of material and empty containers.

DISPOSAL

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NOTICE TO USER

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Booklet

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PRODUCT INFORMATION

CIVITAS TURF DEFENSE™ Ready-2-Mix is a broad spectrum fungicide for use treating turfgrass on golf course greens, tees, fairways & roughs, as well as sports & athletic fields.

CIVITAS TURF DEFENSE Ready-2-Mix is used as a preventative treatment for the control or suppression of many important diseases on turf. **CIVITAS TURF DEFENSE Ready-2-Mix** acts by providing a barrier that prevents fungal spores from germinating or penetrating host plant cells, and by activating a natural defense pathway within the plant called Induced Systemic Resistance (ISR).

DIRECTIONS FOR USE

CIVITAS TURF DEFENSE Ready-2-Mix may be applied with all types of spray equipment commonly used for making ground applications. For ground applications, apply **CIVITAS TURF DEFENSE Ready-2-Mix** in sufficient water volume for adequate coverage. All applications should be made according to the use directions that follow.

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) medium 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.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of application	Crop	Buffer Zones (metres) Required for the Protection of:			
		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*	Golf course turf and sports & athletic fields	5	3	1	1

* 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 turf 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 turf canopy, the labeled buffer zone can be reduced by 30%.

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.

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.

DO NOT apply by air.

INTEGRATED PEST MANAGEMENT

This product can be used in resistance management strategies or in integrated pest management (IPM) programs. **CIVITAS TURF DEFENSE Ready-2-Mix** is effective for use in programs that attempt to minimize disease resistance as there are no known resistance risks associated with its use.

APPLICATION PROCEDURES

Prior to Mixing

- Use only in equipment with sufficient agitation to keep contents thoroughly mixed and provide sufficient agitation during mixing and application to maintain a uniform emulsion.
- Be sure tank is clean; make certain that the tank is free of sulphur residues.
- Use the highest rate when disease pressure is high.
- Roll **CIVITAS TURF DEFENSE Ready-2-Mix** drums/pails or lightly mix containers that have been still for at least 3 months.

Mixing Directions

- With agitator running, start filling the tank until it gets about half full.
- **CIVITAS TURF DEFENSE Ready-2-Mix** is an Emulsified Concentrate and should be added after Wettable Soluble Powders, Wettable Powders, Water Dispersible Granular and Liquid Flowables are added to the tank.
- Add **CIVITAS TURF DEFENSE Ready-2-Mix** to the mixture. If it turns milky white, that indicates proper emulsion. Do not use this product if it does not emulsify.
- Add the calculated amount of spray indicator to cause the spray to change colour.
- Add remaining Emulsified Concentrate and Soluble products (if applicable) and fill the tank completely with water.
- Maintain agitation during mixing and application.
- Prepare only enough spray mix for the current day's use. Do not store spray mix.

Application Instructions

- **CIVITAS TURF DEFENSE Ready-2-Mix should only be applied to non-dormant, healthy turf.**
- **CIVITAS TURF DEFENSE Ready-2-Mix** should be applied 7-14 days before onset of disease, turf dormancy, biotic or abiotic stressors.
- When disease pressure is high, use the highest rate and shortest interval.
- On golf course greens, use application rates toward the lower end of the specified range.
- **CIVITAS TURF DEFENSE Ready-2-Mix** may be applied using the types of spray equipment commonly employed for ground applications.
- Apply at 4-20 Litres of total spray volume per 100 m².
- Thorough coverage will provide the best results, use of flat fan or air induction nozzles are suggested.
- Protect porous surfaces and objects from overspray to avoid discolouration. Clean up any spills

containing the spray indicator immediately with warm water and soap to help avoid persistent staining.

APPLICATION RATES

Disease Controlled	Application			Comments
	CIVITAS TURF DEFENSE Ready-2-Mix (per 100 sq. metres)	Water (per 100 sq. metres)	Interval (Days)	
Anthracnose (<i>Colletotrichum cereale</i>)	240-460 mL	4-20 Litres	14	Apply as a preventative treatment or when conditions are favorable for disease development.
Brown patch (<i>Rhizoctonia solani</i>)	270-540 mL	4-20 Litres	14	
Dollar spot (<i>Sclerotinia homoeocarpa</i>) Spring leaf spot (<i>Drechslera poae</i>)	250-500 mL	4-20 Litres	14	
Grey snow mould (<i>Typhula ishikariensis</i> , <i>Typhula incarnata</i>) (Suppression)	660-930 mL (for single application)	4-20 Litres	N/A	Make a single high rate or 2 or more applications at low rate spaced 14 days apart in late fall before snow cover.
Pink snow mould (<i>Microdochium nivale</i>) (Suppression)	330-460 mL (for multiple applications)	4-20 Litres	14	

Do not apply more than 7 L of CIVITAS TURF DEFENSE Ready-2-Mix/100m²/year.

The addition of a pigmented spray indicator is recommended.

This product should be tested on a small area of turf prior to broad application because short cut turf may be more susceptible to disease and phytotoxicity.

Avoid spraying during or immediately prior to hot or freezing weather, rain or other unsuitable conditions; avoid over spraying or double spraying. Plants should be sprayed only when in vigorous condition and when their moisture condition is suitable. Before using, make certain spray tank is free of sulphur residues.

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