



GROUP M FUNGICIDE

DACONIL® ULTREX Fungicide

COMMERCIAL

Water Dispersible Granules

Turf and Ornamental Fungicide

GUARANTEE:

Chlorothalonil (tetrachloroisophthalonitrile) 82.5%

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

WARNING



POISON

DANGER: SKIN AND EYE IRRITANT

REGISTRATION NUMBER: **28354**
PEST CONTROL PRODUCTS ACT

Syngenta Canada Inc.
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Guelph, Ontario
N1G 4Z3
Telephone: 1-877-964-3682

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

IN CASE OF POISONING, contact a physician or a poison control centre **IMMEDIATELY**. 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 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 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

Treat symptomatically.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. DANGER: SKIN AND EYE IRRITANT.

May be fatal if inhaled, DO NOT inhale/breathe sprays, dusts, smoke, fumes, vapours, etc. Severely irritating to the eye, DO NOT get in eyes. May irritate the skin. Avoid contact with skin. Wash exposed areas of skin with soap and warm water after handling or using. DO NOT take internally. This product may produce temporary allergic side effects, characterized by redness of the eyes, mild bronchial irritation and a redness or rash on exposed skin areas. DO NOT store near feed or foodstuffs. Store in a cool place. Protect from excessive heat. Apply only to areas specified on label.

Wear coveralls over long sleeved shirt, long pants, rubber boots, goggles and chemical resistant gloves during mixing, loading, application, clean up and repair. In addition, mixers and loaders must wear a dust mask.

In Greenhouses:

Attending personnel and handler mixing, loading, applying, cleaning and repairing must wear a chemical resistant rain suit over long sleeved shirt, long pants, rubber boots, goggles, chemical resistant gloves, and wear either a respirator with a NIOSH/MSHA/BHSE approved organic vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH/MSHA/BHSE approved canister approved for pesticides.

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, application equipment and sprayer settings.

This product is toxic to fish, aquatic invertebrates and marine/estuarine organisms. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. DO NOT apply directly to water.

Keep out of lakes, streams, and ponds. DO NOT contaminate water by cleaning of equipment, or disposal of wastes. DO NOT apply where runoff is likely to occur. DO NOT apply when weather conditions favour drift from areas being treated.

DO NOT allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.

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.

BAG DISPOSAL:

1. Empty bag thoroughly into spray tank.
2. Make the empty bag unsuitable for further use.
3. Dispose of the bag in accordance with provincial requirements.

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

PRODUCT INFORMATION

A BROAD SPECTRUM FUNGICIDE FOR USE ON GOLF COURSE GREENS, TEES, AND FAIRWAYS, ORNAMENTAL TURFGRASS AND ORNAMENTALS. Read entire label carefully and use only as directed.

DACONIL[®] ULTREX Fungicide is formulated for use on golf course greens, tees, and fairways, ornamental turfgrass and ornamental herbs, shrubs and trees. It is highly effective for the control of a broad spectrum of turf and ornamental plant diseases when it is used according to the directions on this product label. Thorough, uniform coverage of plant surfaces is essential for good disease control.

DACONIL ULTREX Fungicide is recommended for use in programs which are compatible with the principles of Integrated Pest Management (IPM), which include the use of disease resistant crop varieties, cultural practices, pest scouting and disease forecasting systems which reduce unnecessary applications of pesticides.

Mixing Instructions

Apply DACONIL ULTREX Fungicide as a spray, using sufficient water to obtain adequate coverage of plant surfaces. Volume of spray to be used may vary, depending on crop and plant growth, from 200 to 4000 litres per hectare for dilute sprays, and 50 to 100 litres per hectare for concentrate sprays. Use the higher spray volumes when foliage is dense and coverage is more difficult. In a typical golf course application, volume of spray to be used is 400 to 2000 litres per hectare.

Add the required amount of DACONIL ULTREX Fungicide to the spray tank while filling with water. Keep agitator running when filling spray tank and during spray operations.

DO NOT combine DACONIL ULTREX Fungicide in the spray tank with pesticides, surfactants or fertilizers unless your prior use has shown the combination physically compatible, effective and non injurious under your conditions of use.

DO NOT APPLY BY AIR

DIRECTIONS FOR USE

Sod farm turf treated with Chlorothalonil prior to harvest must be mechanically cut, rolled and harvested.

This product is not to be used around homes or other residential areas such as parks, school grounds, and playing fields. It is not for use by homeowners or other uncertified users. Do not apply this product in a way that will contact workers or other persons or pets either directly or through drift. Only protected handlers may be in the area during application.

Turf: DO NOT mow or water after treatment until spray deposit on turfgrass is thoroughly dry; DACONIL ULTREX Fungicide should always be used in conjunction with good turf management practices.

On Golf Course Tees, Greens, Fairways and Ornamental Turfgrass:

Apply DACONIL ULTREX Fungicide in an adequate amount of water to provide complete coverage. See table below for rates of product and application intervals. Apply DACONIL ULTREX Fungicide when conditions favor disease development and repeat applications as long as these conditions persist. Under severe disease conditions, use the curative rates and spray on a 7 day schedule.

Crop Group	Disease	Interval of Application	Rate: Grams of Product per 100sq. Meters	
			Preventive	Curative
Fairways	Dollar spot	7 - 14 days	29-58	-
Golf Course Tees, Greens, Ornamental Turfgrass	Dollar spot	7 - 14 days	58-115	115-212
Golf Course Tees, Greens, Fairways, Ornamental Turfgrass	Helminthosporium leafspot and melting out	7 - 14 days	58-115	115-212
	Brown patch	7 - 14 days	58-115	115-212
	Anthracnose	7 - 10 days	103-115	Not recommended
	Gray snow mould (<i>Typhula incarnata</i>) and Pink snow mould (<i>Microdochium nivale</i>)	-	145-303	Not recommended

Tank Mixtures:

DACONIL ULTREX Fungicide can be tank-mixed with **ONLY ONE** of the following partners: BANNER MAXX® Fungicide or PRIMO MAXX® Turf Growth Regulator. Read all the labels and follow the precautionary statement, directions for use (rates, diseases controlled and application intervals) and other restrictions.

1. Always check the compatibility of BANNER MAXX Fungicide and PRIMO MAXX Turf Growth Regulator tank mix using a jar test with proportionate amounts of DACONIL ULTREX Fungicide, and water, before mixing in the spray tank.
2. Provide sufficient jet or mechanical agitation during filling and application to keep the tank mix uniformly suspended.
3. Fill tank at least ½ full of clean water.
4. Add DACONIL ULTREX Fungicide first, then BANNER MAXX Fungicide or PRIMO MAXX as a tank mix partner. Do not leave tank mix combinations in the spray tank for prolonged periods without agitation. Mix and apply them on the same day.

Dollar Spot Control: Apply DACONIL ULTREX Fungicide at a rate of 115 g/100 m² as a tank mix with BANNER MAXX Fungicide at rate of 30 mL/100 m².

ORNAMENTALS AND CONIFERS:

Apply DACONIL ULTREX Fungicide at rate of 1.5 kg per 1000 litres of water unless other directions are given in the tables below. For ornamentals, apply sufficient spray to obtain adequate coverage, but do not exceed 2000 litres of water per hectare. Begin applications as directed for each species and disease condition cited and repeat on a 7 to 14 day schedule until conditions are no longer favorable for disease development. During periods when conditions favor severe disease incidence, generally cloudy or wet weather, use the higher rate specified and the shortest indicated interval between applications.

DACONIL ULTREX Fungicide may be used in greenhouses. DO NOT use mistblowers or high

pressure spray equipment when making applications of DACONIL ULTREX Fungicide in greenhouses. Use of DACONIL ULTREX Fungicide is recommended for disease control on the ornamentals and conifers listed in the tables below. Use of DACONIL ULTREX Fungicide is not recommended for species that are not listed.

Species	Diseases Controlled	Suggested First Application
BROADLEAF SHRUBS AND TREES		
Ash (Fraxinus)	Cercospora, Cercosporidium, Cylindrosporium leafspots	Spring bud break
Azalea	Phytophthora die-back	New leaf emergence
Rhododendron	Ovulinia flower blight	Early bloom
Buckeye, Horsechestnut	Leaf blotch, Anthracnose	Spring bud break
Cherry B Laurel	Cercospora leafspot	Petal fall
Crabapple	Scab, Cedar-apple rust, Sphaeropsis leafspot	Spring bud break
Dogwood	Septoria leafspot	Early bloom
Euonymus	Anthracnose	Spring bud break
Firethorn	Scab	Spring bud break
Flowering Almond, Quince, Sand Cherry	Monilinia blossom/branch blight	Early bloom
Hawthorn	Rust, Fabraea leafspot	Pre-bloom
Holly	Rhizoctonia web blight	Warm, moist conditions
Mountain Laurel	Cercospora leafspot	Spring bud break
Oak (red group only)	Taphrina blister, Actinopelte leafspot, Anthracnose	Dormant budswell
Oregon B Grape (Mahonia)	Rust	Spring bud break
Photinia	Fabraea (Entomosporium) leafspot	Spring bud break
Pieris (Andromeda)	Phytophthora die-back	New leaf emergence
Poplar	Marssonina leafspot	Spring bud break
Privet	Cercospora leafspot	Prolonged wet conditions
Sycamore, Planetree	Anthracnose	Spring bud break
Viburnum	Powdery mildew	Mid-summer

Species	Diseases Controlled	Suggested First Application
BULBS AND FLOWERING PLANTS		
Carnation	Alternaria leafspot/branch rot: Botrytis flower blight	Transplant of cuttings; cool, moist conditions
Chrysanthemum/Daisy	Mycosphaerella ray blight, Septoria leafspot; Botrytis flower blight (gray mould)	Transplant of cuttings Pre-bloom
Geranium	Botrytis blight, rust	Cool, moist conditions
Gladiolus	Curvularia leaf/flower spot, Botrytis leaf/flower spot	Early propagation
Hollyhock	Rust	Early seedling stage
Hydrangea* (foliage only)	Cercospora and Septoria leafspots, Rust	Early propagation
Iris	Botrytis blossom blight, Didymellina leafspot	Cool, moist conditions
Lily	Botrytis gray mould	Pre-bloom
Petunia*	Phytophthora blight (foliar phase), Botrytis blight	Pre-bloom
Rose (Use 1.1 kg per 1000 L)	Black spot, Botrytis blight	Spring bud break
Statice	Anthracnose, Cercospora, Alternaria, Botrytis leaf blights	Spring bud break
Zinnia	Powdery mildew	First sign of disease
* Discolouration of blooms has been noted on certain varieties when applications are made during flowering.		

Species	Diseases Controlled	Suggested First Application
FOLIAGE PLANTS		
Dracaena	Fusarium leafspot	Pre-transplant
Pachysandra (Use 3 kg per 1000 L)	Volutella leaf blight	Spring bud break
Leatherleaf fern	Ascochyta blight, Cercospora leafspot, Cylindrocladium leafspot, Rhizoctonia blight	Spring bud break
Parlor palm (Chamaedorea)	Bipolaris (Helminthosporium) leafspot	Cool, moist conditions
Prayer plant (Maranta)	Helminthosporium leafspot	Early propagation
Oyster plant (Rhoeo)	Tan leafspot	Early propagation
Syngonium	Cephalosporium leafspot	Warm, moist conditions
Philodendron	Phytophthora blight, Dactylaria leafspot	Moist conditions

CONIFERS:

Diseases Controlled	DACONIL ULTREX Fungicide Rate/Hectare	Application Directions
Scleroderris Canker (pines), Swiss Needlecast and Rhabdocline Needlecast (Douglas fir)	1.45-2.9 kg	Apply 100 to 1000 litres of water per hectare. Make first application in spring when new shoot growth is 1 to 5 cm in length. Make additional applications at 3 to 4 week intervals until conditions no longer favor disease development. For use in nursery beds, apply the highest rate specified on a 3 week schedule.
Sirococcus Tip Blight	2.9-3.6 kg	
Rhizosphaera Needlecast (spruces), Scirrhia brown spot (pines)	5.75 kg	
Lophodermium Needlecast	1.45-2.9 kg	Apply in 100 to 1000 litres of water per hectare. Begin applications in mid-July to early August before infection occurs. Make additional applications at 3 to 4 week intervals until conditions no longer favor disease development. For use in nursery beds, apply 2.9 kg/ha on a 3 week schedule.
Botrytis seedling blight, Phoma twig blight	1.45-2.9 kg	Apply in 100 to 1000 litres of water per hectare. Begin applications in nursery beds when seedlings are 10 cm tall and when cool, moist conditions favor disease development. Make additional applications at 7 to 14 day intervals as long as disease favorable conditions persist.

Applications made during bloom may damage flowers and/or fruits.

Resistance Management Recommendations

For resistance management, DACONIL ULTREX Fungicide contains a Group M fungicide. Any fungal population may contain individuals naturally resistant to DACONIL ULTREX Fungicide and other Group M fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. 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 fungicide resistance:

Where possible, rotate the use of DACONIL ULTREX Fungicide or other Group M fungicides with different groups that control the same pathogens.

Avoid application of more than the maximum number listed in the label and consecutive sprays of DACONIL ULTREX Fungicide or other fungicides in the same group in a season.

Fungicide use should be based on an IPM program that includes scouting, historical information related to pesticide use and crop rotation and considers cultural, biological and other chemical control practices.

Monitor treated fungal populations for sign of resistance development. If disease continues to

progress after treatment with this product, do not increase the use rate. Discontinue use of this product, and switch to another fungicide with a different target site of action, if available.

Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops and disease problems in your area.

For further information or to report suspected resistance, contact company representatives at 1-87-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.

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