



syngenta®

Reg. No. L10301 Act / Wet No. 36 of / van 1947

FUNGICIDE GROUP	M5, 3 & 12	SWAMDODERGROUP
-----------------	------------	----------------

Active ingredients:

Chlorothalonil	362 g/l
Propiconazole	56.9 g/l
Fludioxonil	14.5 g/l

UN 3082

Product names marked ® or ™, the ALLIANCE FRAME, the SYNGENTA Logo and the PURPOSE ICON are Trademarks of a Syngenta Group Company

A suspo-emulsion formulation broad spectrum foliar fungicide with both contact and systemic properties for control of turf diseases on golf courses, lawns around commercial and industrial buildings and sports fields.

EMERGENCY TEL. / NOOD TEL.
++27 (0) 8312 33 911
(Bateleur 911)

© SYNGENTA, AG

Registration holder / Registrasiehouer:
Syngenta SA (Pty) Ltd. / (Edms) Bpk.
(Co./Mpy Reg. No. 1998/013761/07)
Private Bag / Private Sak X 60
HALFWAY HOUSE, 1685 RSA.
Tel. (011) 541-4000

Batch No

Date of Manufacture

CAUTION
VERSIGTIG**1. WARNINGS:****Withholding period:**

Do not graze treated turf or lawn or feed turf or lawn clippings from any treated area to poultry or livestock.

- Harmful if inhaled or swallowed.
- Causes serious eye irritation and may cause an allergic skin reaction.
- Very toxic to aquatic life with long lasting effects.
- Store in a cool dry place away from food and feed.
- Keep out of reach of children, uninformed persons and animals.
- DO NOT apply by aerial application methods.
- DO NOT use this product through any type of irrigation system or ultra low volume spray system.
- DO NOT apply to turf under heat or moisture stress.
- DO NOT apply if heavy rain has been forecast within 48 hours.
- DO NOT apply to waterlogged soil.
- DO NOT irrigate turf to point of runoff within 3 days of application.
- DO NOT apply to turf that is not well established.
- DO NOT apply more than 1 application per year on couch varieties.

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be efficacious under all conditions because the action and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions; quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the disease against the remedy concerned, as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment, or harm to man or animal or for lack of performance of the remedy concerned due to failure of the user to follow the label instructions or to the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

FIRST AID:

If poisoning occurs contact a doctor or the **Tygerberg Poison Information Centre** at **0861 555 777**.

In case of intoxication, have the product container and label with you when calling a poison control center or doctor, or going for treatment.

Inhalation	<ul style="list-style-type: none"> • Move the person to fresh air. • If breathing is irregular or stopped, administer artificial respiration. • Keep patient warm and at rest. • Call a physician or poison control center immediately.
Skin contact	<ul style="list-style-type: none"> • Take off all contaminated clothing immediately. • Wash off immediately with plenty of clean water and soap. • If skin irritation persists, call a physician. • Wash contaminated clothing before re-use.
Eye contact	<ul style="list-style-type: none"> • Rinse immediately with plenty of clean water, also under the eyelids, for at least 15 minutes. • Remove contact lenses. • Immediate medical attention is required.
Ingestion	<ul style="list-style-type: none"> • If swallowed, seek medical advice immediately and show this container or label. • Do NOT induce vomiting. • Give a glass of water. • Do not give anything to an unconscious person.

NOTE TO PHYSICIAN:

There is no specific antidote available. Treat symptomatically and do not induce vomiting.

Persons suffering with temporary allergic skin reactions may respond to treatment with oral antihistamines and topical or oral steroids.

2. PRECAUTIONS:

- Do not eat drink or smoke whilst handling this product.
- Prevent contamination of food, feed, drinking water and eating utensils.
- Avoid contact with eyes, skin and clothing.
- DO NOT inhale vapour or spray mist.
- Repeated exposure may cause allergic disorders.
- **When opening, preparing spray and using the prepared spray wear:** protective gloves, protective clothing, eye protection and face protection.
- **If applying by hand:** Wear full, face respirator with organic vapour/gas cartridge or canister.
- If clothing becomes contaminated with product or wet with spray, remove clothing immediately.
- Wash hands after use. After use and before eating, drinking or smoking or using the toilet, wash hands, arms and face thoroughly with soap and water.

- After each day's use wash gloves, face shield or goggles and contaminated clothing. Wash yourself.
- DO NOT apply this product by spraying equipment carried on the back of the user.
- DO NOT carry out high exposure activities such as hand weeding in treated areas.
- DO NOT apply this product in a way that will contact workers or other persons, or pets either directly or through drift.
- While spraying, avoid contact with the spray as much as you can. Only protected handlers may be in the area during application.
- Do not use on home lawns and turf sites associated with apartment buildings, daycare centers, playgrounds, playfields, recreational park athletic fields, athletic fields located on or next to schools, campgrounds, churches and theme parks.
- Not to be used for any purpose, or in any manner, contrary to this label unless authorized under appropriate legislation.

Re-entry Periods:

- **Mowing:** DO NOT allow entry into treated areas until the spray has dried. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves.
- **Transplanting and Hand Weeding:** DO NOT allow entry into treated areas for 24 days after application unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves.

Protection of livestock:

- DO NOT graze treated turf/lawn or feed turf/lawn clippings from any treated area to poultry or livestock.

Protection of wildlife, fish, crustaceans and environment:

- Very toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers.
- DO NOT apply if there are aquatic or wetland areas including aquacultural ponds within 200m downwind of the application area.
- DO NOT contaminate streams, rivers or waterways with the product or used containers.

Spray Drift Precautions:

- Avoiding spray drift at the application site is the responsibility of the applicator.
- Avoid spray drift onto other crops, grazing rivers or dams.
- The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

Environmental Hazards:

- Drift and runoff may be hazardous to aquatic organisms in neighboring areas.
- This chemical is known to leach through soil into groundwater under certain conditions as a result of label use.
- Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.
- This chemical can contaminate surface water through spray drift.
- Under some conditions, it may also have a high potential for runoff into surface water for several days to weeks after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow ground water, areas with infield canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlaying tile drainage systems that drain to surface water.

Storage and disposal

- Store in the closed, original container in a cool, well-ventilated area.

- Do not contaminate water, food or feed by storage and disposal.
- Avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.
- DO NOT store for prolonged periods in direct sunlight.
- Prepared spray mixture must not be left in the spray tank for any length of time, e.g. overnight.
- Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank.
- DO NOT dispose of undiluted chemicals on site.
- If recycling, replace cap and return clean containers to recycler or designated collection point.
- If not recycling, break, crush or puncture and deliver empty packaging for appropriate disposal to an approved waste management facility.
- If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations.
- DO NOT burn empty containers or product.
- Clean applicator thoroughly after use and dispose of wash water where it will not contaminate crops, grazing, rivers or dams.
- Destroy empty container and do not use for any other purpose.

3. RESISTANCE MANAGEMENT

INSTRATA Turf Fungicide is a combination of a DMI, a phenylpyrrole and a chloronitrile fungicide. For fungicide resistance management **INSTRATA** is a Group 3, 12 and M5 fungicide. Some naturally occurring individual fungi resistant to **INSTRATA** and other Group 3 and/or Group 12 and/or Group M5 fungicides may exist through normal genetic variability in any fungal population. The resistant individuals can eventually dominate the fungal population if these fungicides are used repeatedly. These resistant fungi will not be controlled by **INSTRATA** or other Group 3 and/or Group 12 and/or Group M5 fungicides, thus resulting in a reduction in efficacy and possible yield loss. Since the occurrence of resistant fungi is difficult to detect prior to use, the product owner accepts no liability for any losses that may result from the failure of **INSTRATA** to control resistant fungi.

INSTRATA is effective for strategic use in programs that attempt to minimize disease resistance to fungicides. Some other fungicides which are at risk from disease resistance exhibit a single-site mode of fungicidal action. **INSTRATA**, with a multi-site mode of action, may be used to delay or prevent the development of resistance to single-site fungicides. Consult with your Extension Service representatives for guidance on the proper use of **INSTRATA** in programs which seek to minimize the occurrence of disease resistance to other fungicides. **INSTRATA** 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.

For specific information on resistance management contact the registration holder of this product (Syngenta South Africa) or visit the FRAC website at <http://www.frac.info/frac/index.html>.

4. DIRECTIONS FOR USE:

4.1 Mixing instructions:

- Fill the spray tank with water to the required level while maintaining agitation to ensure thorough mixing of the spray mixture before spraying commences.
- Maintain agitation while spraying. Shake the **INSTRATA** container thoroughly immediately before use.
- Add the required amount of product directly to the spray tank and mix well. **INSTRATA** is a suspo-emulsion (SE) with minimal odour.
- **INSTRATA** mixes completely with water and may be tank mixed with many commonly used fungicides and liquid fertilisers. It has Weather Stik Technology that ensures excellent

residual on leaf, stem and crown surface and a high degree of rainfastness.

- With concentrate sprays, pre-mix the required amount of **INSTRATA** in a clean container and add to the spray tank as it is being filled.
- Do not combine **INSTRATA** in the spray tank with pesticides, surfactants or fertilizers, unless prior use has shown the combination physically compatible, effective and non-injurious under your conditions of use.
- Do not combine **INSTRATA** with horticultural oil, and products containing xylene as phytotoxicity may result from the combination when applied to some species on this label.
- When tank mixing other products with **INSTRATA**, follow the proper sequence of adding products to the spray tank. Wettable powders or water dispersible granules should be added to the water in the tank first, followed by flowable products such as **INSTRATA**, and emulsifiable concentrates added last. Provide sufficient mechanical or bypass agitation during mixing and application.
- If **INSTRATA** is to be tank mixed with other products, add the products in the following sequence (as applicable): adjuvant / acidifier, wettable powder, suspension concentrate, emulsifiable concentrate. Prepared spray mixture must not be left in the spray tank for any length of time, e.g. overnight.
- When tank mixing, observe all directions, precautions, and limitations on labeling of all products used. Consult compatibility charts or your local or state agricultural authorities for compatibility information. It is impossible to test every species and variety of plants under all conditions.

4.2 General directions:

Always use **INSTRATA** in conjunction with good turf management practices.

Ensure even application in order to achieve even disease control. Avoid overlapping sprays.

Leaf and Crown Diseases:

- Application volume for leaf and crown infecting diseases (Anthracnose, Brown Patch, Dollar Spot, *Helminthosporium* diseases and Winter *Fusarium*) should be adequate to ensure thorough and even coverage of the turf leaves and penetration to the crowns.

Sensitive Areas

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (i.e., when wind is blowing away from the sensitive areas). Agricultural Use Sites Only (sod farms): This product must not be applied within 10 meters of marine/estuarine water bodies, unless there is an untreated buffer area of that width between the area to be treated and the water body.

4.3 Specific use directions for turf grass disease control

- **Do not use on home lawns and turf sites associated with apartment buildings, daycare centers, playgrounds, playfields, recreational park athletic fields, athletic fields located on or next to Schools, campgrounds, churches and theme parks.**
- Agricultural Use Sites Only (sod farms): This product must not be applied within 10 meters of marine/estuarine water bodies unless there is an untreated buffer area of that width between the area to be treated and the water body.
- Sod farm turf treated with **INSTRATA** prior to harvest must be mechanically cut, rolled and harvested.
- **Do not use INSTRATA** on fine fescue turf due to the potential for phytotoxicity or turf grass injury.
- **Do not** mow or water after treatment until spray deposited on turf grass is thoroughly dry.

Retreatment (Spray) Intervals:

- The minimum retreatment interval for **INSTRATA** applications is 14 days.

5. RECOMMENDATIONS Use only as indicated.

CROP / DISEASE	DOSAGE
TURF Anthracnose <i>(Colletotrichum graminicola)</i> Brown Patch <i>(Rhizoctonia solani)</i> Dollar Spot <i>(Sclerotinia homeocarpa)</i> Helminthosporium Disease <i>(Bipolaris sp.)</i> <i>(Drechslera sp.)</i> <i>(Exserohilum spp.)</i> Winter Fusarium or Microdochium Patch <i>(Microdochium nivale)</i> <i>(Fusarium nivale)</i>	18ℓ/ha or 180 mℓ /100 m ²
REMARKS: <ul style="list-style-type: none"> • Apply INSTRATA in a preventative fungicide program containing fungicides from different chemical groups. • Begin applications before symptoms occur, when conditions first favour disease and continue applications while conditions remain favourable for disease development using registered fungicides. • Apply INSTRATA at 28-day intervals. • INSTRATA is recommended to be applied in 500 - 1000 litres water/ha using vehicle mounted/trailed sprayers. Use 1000 litres water/ha (10 litres water/100 m²) for spot treatments using a hand-held knapsack sprayer. 	

INSTRATA® = Registered Trade Mark of a Syngenta Group Company.

SYNGENTA AG, 2000. Copyright of this document is reserved. All unauthorised reproduction is forbidden.

SA. Reg. 2017-07-18