

INSTRATA

Product registration number: *MAPP 14154*



INSTRATA is a suspo-emulsion formulation containing 362 g/l chlorothalonil, 56.9 g/l propiconazole and 14.5 g/l fludioxonil.

A broad spectrum foliar fungicide with both contact and systemic properties for control of Fusarium Patch (*Microdochium nivale*), Dollar Spot (*Sclerotinia homoeocarpa*), Brown patch (*Rhizoctonia solani*) and reduction of Anthracnose (*Colletotrichum graminicola*) on bowling greens, golf greens, golf tees and patch treatment on golf fairways.

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

This product label is compliant with the CPA Voluntary Initiative (VI) guidance.



Net contents

Syngenta Crop Protection UK Limited
CPC4, Capital Park
Fulbourn
Cambridge CB21 5XE
Tel: Cambridge (01223) 883400

In case of toxic or transport emergency ring (01484) 538444 anytime

***PROTECT FROM FROST
SHAKE WELL BEFORE USE***

Product code / Print date / xxxxxx

Batch Number

SAFETY PRECAUTIONS

(a) Operator protection

Engineering controls of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) when applying the product

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

KEEP OUT OF THE REACH OF CHILDREN.

DO NOT BREATHE SPRAY.

WASH ALL PROTECTIVE CLOTHING thoroughly after use especially the insides of gloves.

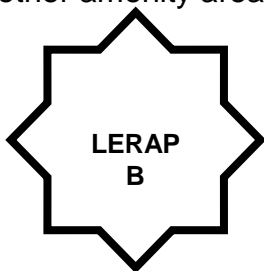
WASH SPLASHES from skin or eyes immediately.

WASH HANDS AND EXPOSED SKIN before eating and drinking and after work

(b) Environmental protection

To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements

Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from golf courses and other amenity areas.



DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5 m of the top of the bank of a static or flowing waterbody, unless a Local Environmental Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1 m of the top of a ditch which is dry at the time of application. Aim spray away from water.

This product qualifies for inclusion within the Local Environmental Risk Assessment for Pesticides (LERAP) Scheme. Before each spraying operation from a horizontal boom sprayer, either a LERAP must be carried out in accordance with PSD's published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for inspection for three years.

(c) Storage and disposal

KEEP IN ORIGINAL CONTAINER, tightly closed in a safe place

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.

DO NOT RE-USE CONTAINER for any purpose

INSTRATA



TOXIC



DANGEROUS FOR THE ENVIRONMENT

INSTRATA is a suspo-emulsion formulation containing 362 g/l chlorothalonil, 56.9 g/l propiconazole and 14.5 g/l fludioxonil.

Contains propiconazole. May produce an allergic reaction.

**TOXIC BY INHALATION
IRRITATING TO EYES
LIMITED EVIDENCE OF A CARCINOGENIC EFFECT
MAY CAUSE SENSITISATION BY SKIN CONTACT
VERY TOXIC TO AQUATIC ORGANISMS, MAY
CAUSE LONG-TERM ADVERSE EFFECTS IN THE
AQUATIC ENVIRONMENT**

Keep out of the reach of children.

When using do not eat, drink or smoke.

Keep away from food, drink and animal feeding stuffs.

Do not breathe spray

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

After contact with skin, wash immediately with plenty of water

Wear suitable protective clothing and gloves.

In case of insufficient ventilation wear suitable respiratory equipment

In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)

This material and its container must be disposed of in a safe way.

Use appropriate containment to avoid environmental contamination.

To avoid risks to man and the environment, comply with the instructions for use.

IMPORTANT INFORMATION

FOR USE ONLY AS A HORTICULTURAL FUNGICIDE.

User: Professional

Crops/situations	Maximum individual dose (product/ha)	Maximum number of treatments
Amenity grassland and managed amenity turf	9 L	3 per year

Other specific restrictions:

This product must only be applied to golf greens, tees and fairways, bowling greens.
This product must only be applied by pedestrian controlled sprayers or vehicle mounted/drawn equipment.

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.

This leaflet is part of the approved Product Label.

DIRECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be carefully read in order to obtain safe and successful use of this product.

GENERAL INFORMATION

INSTRATA is a suspo-emulsion formulation containing 362 g/l chlorothalonil, 56.9 g/l propiconazole and 14.5 g/l fludioxonil.

Propiconazole

Propiconazole has protective, curative and eradicant activity. It is rapidly absorbed by the assimilating parts of the plant, mostly within one hour of treatment. It is transported acropetally (upwards) in the xylem. This systemic translocation contributes to good distribution of the active ingredient within the plant tissue.

Propiconazole is a member of the DMI-fungicides group (demethylation inhibitors) These materials act on the fungal pathogen inside the plant at the stage of first haustoria formation and stop disease development by interfering with sterol biosynthesis in fungal cell membranes.

Chlorothalonil

Chlorothalonil a unique multi site contact fungicide belonging to the chloronitrile chemistry group. It has broad spectrum activity against a number of turf diseases, it is believed that it deactivates several fungal enzymes (multiple-site action), therefore creating less resistance risk. Its unique activity makes it ideal for use in IPM programs.

Fludioxonil

Fludioxonil is a new long lasting contact fungicide belonging to the phenylpyrrole chemistry group, that provides broad-spectrum activity against a wide range of turf diseases. It is believed to inhibit transport-associated phosphorylation of glucose, which subsequently results in the inhibition of fungal mycelial growth.

RESTRICTIONS

Prevent spray drift on to surrounding areas
DO NOT apply to turf under heat or moisture stress

This product must only be applied by pedestrian controlled sprayers or vehicle mounted/drawn equipment. Do not apply with a knapsack sprayer.

For applications by vehicle mounted/drawn hydraulic boom sprayer, avoid spraying within 5m of unmanaged land (including rough grassland) to reduce effects on non-target insects or other arthropods.

DISEASES CONTROLLED

INSTRATA is a contact and systemic fungicide for the control of the following diseases:

Fusarium Patch (*Microdochium nivale*)
Anthracnose (*Colletotrichum graminicola*) [Reduction may be achieved]
Dollar Spot (*Sclerotinia homoeocarpa*) *
Brown patch (*Rhizoctonia solani*) *

* As a QUALIFIED MINOR USE RECOMMENDATION, evidence of effectiveness of Dollar Spot (*Sclerotinia homeocarpa*) and Brown patch (*Rhizoctonia solani*) is limited.

For optimum turf quality and disease control, use INSTRATA in conjunction with turf management practices that promote good plant health.

Correct identification of the disease(s) is essential in selecting the most appropriate control measures.

CROP SPECIFIC INFORMATION

Begin applications when conditions are favourable for disease infection, at the very beginning of disease symptom expression.

Crop Tolerance

When used as recommended, INSTRATA is well tolerated by all common turf grass species but safety to newly sown turf has not been established.

Rates of Use

Apply 9 litres INSTRATA per hectare in 500-1000 litres water per hectare.

Timing

Apply in a preventative spray programme of 3 sprays per year, starting when conditions become favourable for disease development.

Apply 9 litres INSTRATA per hectare with a maximum number of 3 sprays per year. A minimum interval of 14 days should be observed between applications

RESISTANCE MANAGEMENT

In order to minimise the likelihood of the development of resistance, it is recommended that INSTRATA should be used in a programme with products of different chemical groups.

Use INSTRATA in a disease control programme, alternating treatments with other fungicides having different modes of action.

INSTRATA contains propiconazole, chlorothalonil, and fludioxonil and applications should be made in accordance with the FRAG-UK guidelines.

Apply INSTRATA at full recommended rates. Utilize management practices, which encourage healthy turf and reduce turf stress.

APPLICATION

VOLUME OF WATER AND SPRAYING

This product must only be applied by pedestrian controlled sprayers or vehicle mounted/drawn equipment. Do not apply with a knapsack sprayer. Application equipment should be calibrated before use.

INSTRATA is recommended to be applied in 500-1000 litres water/ha with all application methods.

MIXING AND SPRAYING

Make sure the sprayer is set to give an even application at the correct volume and an even deposit. Half fill the spray tank with the required volume of clean water and start agitation. Add the required amount of INSTRATA to the spray tank. Agitate the mixture thoroughly before use and continue agitation during spraying. Thoroughly wash all spray equipment with water immediately after use.

Thoroughly wash all spraying equipment immediately after use.

Wash out containers thoroughly, preferably using an integrated pressure rinsing device, or manually rinse three times. Add washings to the sprayer at the time of filling. Complete filling to the required volume and continue to agitate throughout the spraying operation.

Do not leave the spray liquid in the sprayer for long periods (such as during meal breaks or overnight). Make up only the amount of spray required for immediate use.

AFTER SPRAYING

Thoroughly wash out sprayer according to manufacturer's guidelines and dispose of washings and clean containers according to DEFRA Code of Practice and local water authority guidelines.

OTHER INFORMATION

1. Some diseases can quickly damage turf. Treatment at a late stage of disease development will be more difficult and can leave bare soil patches needing renovation.
2. Use preventative sprays, especially against diseases which occur in winter and early spring.
3. If diseases recur regularly, check management practices, especially fertilizer treatment as this can affect disease occurrence if either in excess or deficient.

This product is to be used only in accordance with the recommendations and instructions given on the labels provided with this pack.