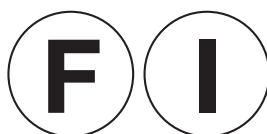




200 L



Fungicide and Insecticide

Seed treatment for winter crops of barley, wheat, oats, durum wheat, rye and triticale for the control of the principal seed-borne diseases and soil-borne bunt and to control virus vector aphids to prevent the spread of Barley Yellow Dwarf Virus infection. Also to improve crop establishment by reducing damage caused by wireworms and slugs and suppresses the activity of leafhoppers in early spring.

MAPP 12423
PCS 03794

A flowable concentrate formulation for seed treatment containing 50 g/L (4.3% w/w) prothioconazole and 250 g/L (21.4% w/w) clothianidin.

For Professional use only

This container must be handled with the assistance of mechanical means.

Authorisation Holder:
Bayer CropScience Limited
230 Cambridge Science Park
Milton Road, Cambridge CB4 0WB
Telephone: 01223 226500

From the UK: 01223 226500
From The Republic of Ireland: Freephone 1800 818534

For 24 hour emergency information contact
Bayer CropScience Limited
Telephone: 00800 1020 3333

SAFETY PRECAUTIONS

Operator Protection

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

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

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

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND SUITABLE RESPIRATORY PROTECTIVE EQUIPMENT* when cleaning machinery. *Disposable filtering facepiece respirator to at least EN149 FFP2 or equivalent.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) when bagging treated seed.

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

WHEN USING DO NOT EAT, DRINK OR SMOKE.

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

Environmental Protection

Do not contaminate water with the product or its container. (Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads).

The seed coating shall only be performed in professional seed treatment facilities. Those facilities must apply the best available techniques in order to ensure that the release of dust during application to the seed, storage and transport can be minimised.

Adequate seed drilling equipment shall be used to ensure a high degree of incorporation in soil, minimisation of spillage and minimisation of dust emission.

Storage and Disposal

KEEP IN ORIGINAL CONTAINER tightly closed in a safe place.
OPEN THE CONTAINER ONLY AS DIRECTED.
DO NOT RINSE OUT CONTAINER.

DO NOT RE-USE CONTAINER FOR ANY OTHER PURPOSE.

PRECAUTIONS for treated seed

Do not sow crops treated with Redigo Deter between 1st January and 30th June.

TREATED SEED MUST NOT BE BROADCAST.

WEAR SUITABLE PROTECTIVE GLOVES when handling treated seed.

DO NOT HANDLE seed unnecessarily.

DO NOT USE TREATED SEED as food or feed.

To protect birds/wild mammals, treated seed should not be left on the soil surface. Bury or remove spillages.

KEEP TREATED SEED SECURE from people, domestic stock/pets and wildlife at all times during storage and use.

DO NOT RE-USE SACKS OR CONTAINERS THAT HAVE BEEN USED FOR TREATED SEED for food or feed.

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

DO NOT APPLY TREATED SEED FROM THE AIR.

BURY OR REMOVE SPILLAGES.

Seed should be drilled to a depth of 40 mm into a well prepared and firm seedbed. If seed is present on the soil surface, or spills have occurred, then, if conditions are appropriate, the field should be harrowed then rolled to ensure good incorporation.

Safety information
REDIGO DETER
Contains 50 g/L (4.3 % w/w) prothioconazole and
250 g/L (21.4 % w/w) clothianidin.



Warning

May cause an allergic skin reaction.

Very toxic to aquatic life with long lasting effects.

Wear protective gloves/protective clothing/eye protection/face protection.

If skin irritation or rash occurs: Get medical advice/attention.

Dispose of contents/container to returnable container supplier.

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

MAPP 12423 PCS 03794

IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL SEED TREATMENT

Crops:	Wheat (winter seed), barley (winter seed), oats (winter seed), durum wheat (winter seed), rye (winter seed), triticale (winter seed).
Maximum individual dose:	200 ml of product per 100 kg seed
Maximum number of treatments:	One per batch
Latest time of application:	Before planting
Other specific restrictions:	This product must only be applied to autumn-drilled cereal seed. Do not sow treated crops between 1st January and 30th June

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.

PROTECT FROM FROST

DIRECTIONS FOR USE

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

CROPS

Redigo Deter may only be used on winter barley, winter wheat, winter oats, durum wheat (winter), winter rye and winter triticale.

DO NOT SOW CROPS TREATED WITH REDIGO DETER BETWEEN 1st JANUARY AND 30th JUNE.

DISEASES CONTROLLED

Winter wheat, oats, durum wheat, rye and triticale

Fusarium seedling blight / stem base browning

Redigo Deter improves crop establishment and the health of stem bases by reducing the symptoms of seedling blight and stem base browning caused by *Microdochium nivale* and *Fusarium culmorum*.

Bunt

Redigo Deter controls bunt caused by seed- or soil-borne infections of *Tilletia caries*.

Loose smut

Redigo Deter controls loose smut caused by *Ustilago nuda* and *U. avenae*.

Winter Barley

Fusarium seedling blight / stem base browning

Redigo Deter improves crop establishment and the health of stem bases by reducing the symptoms of seedling blight and stem base browning caused by *Microdochium nivale*.

Loose smut

Redigo Deter controls loose smut caused by *Ustilago nuda fsp. hordei*.

Covered Smut (winter sown barley and winter oats)

Redigo Deter controls covered smut caused by *Ustilago hordei* and *U. kolleri* (covered smut is rare in the UK and Ireland).

Leaf Stripe

Redigo Deter controls leaf stripe caused by seed-borne infections of *Pyrenophora graminea*.

PESTS CONTROLLED

Winter barley, wheat, oats, durum wheat, rye and triticale.

Aphids/BYDV

Redigo Deter controls autumn infestations of aphid vectors of Barley Yellow Dwarf Virus (BYDV) and thereby prevents the spread of this disease within the crop.

Wireworms and Slugs

Redigo Deter improves crop establishment by reducing damage caused by wireworms and slugs. In situations where very high populations of wireworms are present e.g. in excess of 1.25 million per hectare, additional control measures should be taken as the level of protection of seedlings given by Redigo Deter alone may be inadequate. Redigo Deter will only give protection from slugs to germinating seeds and not to aerial plant parts after crop emergence. If the slug population is very high, then additional control measures may be necessary.

Leafhoppers

When used to control BYDV vectors, Redigo Deter may give incidental suppression of leafhoppers in the early spring (March/April). For large populations or later attacks of this minor pest additional control measures should be taken.

RATE OF USE

200 ml of Redigo Deter per 100 kg of seed. (2.0 litres per tonne of seed).

APPLICATION

Redigo Deter must only be used in conjunction with Bayer approved seed treatment application equipment by following the procedures given in the operating instructions. ALWAYS follow the operating instructions.

Ensure that Redigo Deter is homogeneous before use. The product should be fully re-dispersed using a re-circulating pump for a minimum of 30 minutes. For further advice on re-dispersing Redigo Deter please contact the local Seed Treatment Engineer of Bayer CropScience Ltd

Warning: containers of greater than 20 litres capacity should only be handled with mechanical assistance.

Redigo Deter should be evenly applied using a Bayer recommended seed treatment machine, which has been accurately calibrated to obtain the correct dose rate.

Redigo Deter should be co-applied with a minimum of 2 – 4 litres of water per tonne of seed to improve the evenness of coverage of treated seed. The amount of water used will depend on the type of seed treater used and processing conditions.

For further details please contact the local Seed Treatment Engineer of Bayer CropScience Limited.

After use the product application equipment should be thoroughly cleaned using clean water.

Company Advisory Information

Redigo Deter should always be co-applied with a recognised dust control product.

SEED QUALITY

Redigo Deter seed treatment should not be used on seed with more than 16% moisture content, or on sprouted, cracked, skinned or otherwise damaged seed. All seed batches should be tested to ensure they are viable and suitable for treatment with Redigo Deter.

LABELLING OF TREATED SEED

LABEL TREATED SEED with the appropriate precautions using printed sacks, labels or bag tags.

STORAGE OF TREATED SEED

Winter wheat: Seed treated with Redigo Deter should preferably be drilled in the season of treatment. Although Redigo Deter is not known to have any effect on the storage life of treated seed, the subsequent germination and performance of such seed may be adversely affected by physical storage conditions. No liability can therefore be accepted for the performance of stored, treated seed.

Winter crops of barley, oats, rye, triticale and durum wheat: treated seed must be used within the season of treatment.

DRILLING OF TREATED SEED

It is essential to check drill calibration before use and again for each seed lot drilled to ensure an accurate seed rate. Redigo Deter treated seed should be drilled at a depth of 4 cm (1.5") or greater into a well prepared and firm seedbed providing optimal conditions for crop emergence and establishment, using a minimum drilling rate of 125 kg/ha for wheat.

Adverse seedbed conditions such as very dry, fluffy, cloddy or capped seedbeds, waterlogging, drilling too deep or too shallow, the use of seed with low germination capacity/vigour and residual herbicides, can reduce the field emergence of cereals. This may be accentuated by Redigo Deter.

FOLLOW-UP SPRAY TREATMENTS

Fungal diseases of aerial plant parts

To give protection against air-borne and splash-borne diseases later in the season appropriate follow-up fungicide sprays should be used.

Aphids/BYDV

When aphid activity is unusually late, or in areas of particularly high risk where aphid activity is heavy and prolonged, and mild weather predominates, a follow-up aphicide treatment may be required.

In such situations, crops treated with Redigo Deter should be monitored for the presence of aphids and a foliar aphicide applied if necessary.

Leafhoppers

Leafhopper activity can be suppressed in early spring (March/April) but for later or heavy attacks of this pest, an additional foliar applied insecticide is recommended.

CAUTION: The possible development of disease or pest strains resistant to Redigo Deter, as with other products containing DMI fungicides or neonicotinoid insecticides, cannot be excluded or predicted. If such resistant strains occur, Redigo Deter is unlikely to give satisfactory control.

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To access the **Safety Data Sheet** for this product scan the code or use the link below:

<http://www.cropscience.bayer.co.uk/redigodetersds>

or alternatively contact your supplier

Bayer