



GB86884711a rA3

For the control of black scurf (*Rhizoctonia solani*) on daughter tubers and some reduction of stem and stolon canker (also *Rhizoctonia solani*) in potatoes.

**MAPP 17280**

A powder formulation for dry seed treatment containing 20.0 g/kg (2 % w/w) Penflufen

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

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**SAFETY PRECAUTIONS**

**Operator Protection**

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment: However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

This product must only be applied using automated powder dispensing equipment fitted on an automatic planter.

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

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

**Environmental Protection**

DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

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

**Storage and Disposal**

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.

KEEP OUT OF REACH OF CHILDREN

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

EMPTY CONTAINER COMPLETELY and dispose of safely.

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

TREATED tubers should not be stored >1 month before planting.

**PRECAUTIONS for treated seed**

WEAR SUITABLE PROTECTIVE GLOVES when handling treated seed potatoes.

DO NOT HANDLE seed unnecessarily.

DO NOT USE TREATED SEED as food or feed.

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

TO PROTECT BIRDS/WILD MAMMALS, treated seed should not be left on the soil surface.

BURY OR REMOVE SPILLAGES.

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

WASH HANDS AND EXPOSED SKIN before meals and after work.

**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.

Emesto Prime DS is recommended for the control of black scurf (*Rhizoctonia solani*) and some reduction of stem and stolon canker (also *Rhizoctonia solani*). *Rhizoctonia* is able to exist freely in soils, but disease infection can also take place from sclerotia present on seed tubers. Emesto Prime DS is primarily used for control of the tuber-borne inoculum.

For use on seed tubers of all varieties of first and second earlies, main and seed potato crops.

This product must only be applied using automated powder dispenser equipment fitted on an automatic planter.

**RESTRICTIONS**

BEFORE USING EMESTO PRIME DS ALWAYS CHECK THE LATEST GUIDELINES FOR THE USE OF PENFLUFEN PRODUCTS, AVAILABLE FROM BAYER CROPSCIENCE OR YOUR Emesto Prime DS SUPPLIER  
PROTECT FROM FROST  
CONSULT PROCESSOR BEFORE USING ON CROPS FOR PROCESSING.

**DISEASES CONTROLLED**

Control of black scurf (*Rhizoctonia solani*) on daughter tubers

Stem and stolon canker (*Rhizoctonia solani*) reduction

The possible development of disease strains resistant to Emesto Prime DS cannot be excluded or predicted. Where such resistant strains occur, Emesto Prime DS is unlikely to give satisfactory control.

**CROP SPECIFIC INFORMATION**

**APPLICATION**

1.0 kg of Emesto Prime DS per tonne of seed tubers.

Seed Tubers should be dry and free of soil deposits at treatment.

Seed tubers should be treated with Emesto Prime DS at planting using a suitable metered powder dispenser. The applicator needs to be appropriately calibrated to account for the seed tuber size and planting rate.

*On-planter Applicator:* Emesto Prime DS may be applied directly onto the tubers using powder metering units fitted to the cup-feed planter hopper or belt feeder (E.g. Team Sprayers metering unit). Powder dispenser manufacturers should be consulted as to the suitability of individual machines for use with Emesto Prime DS and the appropriate machine setting to ensure the correct application rate relative to tuber size is achieved. This method of application reduces risk of operator exposure. These applicators may not be suitable for all automated planters.

**Rain**

If seed tubers become damp from light rain, the distribution of Emesto Prime DS on the tubers at planting should not be affected. If, however, a rain shower interrupts planting, the tubers in the hopper should be covered in accordance with normal practice.

**Dust**

Potato planting is a dusty operation, particularly in windy weather. The use of Emesto Prime DS may add to this problem and operators must wear a dust mask (conforming to EN 149 FFP2 or EN 149 FFP3) when handling the dust formulation, filling the hopper and when riding on the planter.

**Treated tubers – Use of**

Treated tubers may only be used as seed. They must not be used for human or animal consumption.

Growers are advised to carefully check seed tuber health before applying Emesto Prime DS. Potato seed tubers to be treated with seed treatments, including Emesto Prime DS, should be of good quality and vigour (i.e. free from conditions such as bacterial rots, physical damage, virus infection, etc). Crop establishment may be impaired where seed is affected by the conditions above, irrespective of any subsequent seed treatment application.

**TUBER HANDLING DAMAGE**

Any damage occurring to tubers or sprouts/chits during handling, treatment or planting may adversely affect their subsequent performance and cropping.

It is Good Agricultural Practice to allow seed tubers coming out of cold store to achieve ambient temperature before planting in to cold and / or wet seed beds.

**OTHER SEED TREATMENTS**

Emesto Prime DS should NOT be used on seed tubers which have previously been treated with a dry powder seed treatment or where hot water treatment is used.


**MIXING**

There are no Bayer CropScience recommendations for the use of Emesto Prime DS in conjunction with any seed tuber treatment.

**COMPATIBILITY**

Check with Bayer Crop Science or your supplier before use of any other chemical in sequence with Emesto Prime DS at planting.

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Safety information  
**EMESTO PRIME DS**  
Contains 20.0 g/Kg (2% w/w) Penflufen

Toxic to aquatic life with long lasting effects.  
Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.  
To avoid risks to human health and the environment, comply with the instructions for use.

IMPORTANT INFORMATION	
FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE	
Crops :	Potato (seed).
Maximum individual dose:	1.0 kg of product per tonne of seed tubers.
Maximum number of treatments:	One per batch.
Latest time of application:	Before or at planting.
Other Specific Restrictions	Treated tubers may only be planted in the same field once every 3 years. Applications to potato seed must not exceed 100 g Penflufen per hectare. Sowing of treated seed must not exceed a maximum planting density of 5 tonne per hectare. Treated seed must not be used for food or feed. Sacks containing treated seed must not be re-used for food or feed.

**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.**



To access the **Safety Data Sheet** for this product scan the code or use the link below:  
[www.cropscience.bayer.co.uk/emestoprimesdsds](http://www.cropscience.bayer.co.uk/emestoprimesdsds)  
or alternatively contact your supplier

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