

SEED TREATMENT

COMPATIBILITY

No compatibilities available for this product.

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

AUSTRAL PLUS is a flowable concentrate in which the active ingredient tefluthrin is contained in micro-capsules. After drilling, tefluthrin is slowly released to provide a zone of protection around the treated seed during establishment. Tefluthrin is a non-systemic soil acting pyrethroid which repels or kills the larvae of Wheat Bulb Fly and Wireworm attacking the crop below ground.

Results from trials have shown AUSTRAL PLUS to be well tolerated over a wide range of sowing dates and conditions. However under adverse environmental or soil conditions, the germination capacity of seed may be reduced and therefore seed rates should be increased in accordance with good agricultural practice.

AUSTRAL PLUS is effective against benzimidazole resistant and sensitive forms of *Microdochium nivale*.

PESTS CONTROLLED

Wheat Bulb Fly

For the reduction of Wheat Bulb Fly damage in wheat and barley.

Where egg counts indicate a high risk of severe pest attack (more than 5 million Wheat Bulb Fly eggs per hectare), a follow up spray (egg hatch or dead heart) may be justified.

Wireworm

For reducing damage by Wireworm in wheat, barley and oats.

AUSTRAL PLUS provides protection during emergence and early establishment against damage by Wireworms feeding below ground. AUSTRAL PLUS reduces plant loss during establishment and improves crop vigour but is non-systemic and so may not prevent damage by Wireworms attacking plants at the soil surface.

Where there is a high risk of a severe attack by Wireworm (e.g. populations exceed 1.25 million per hectare), apply a suitable follow up treatment.

DISEASES CONTROLLED

Winter and Spring Wheat

AUSTRAL PLUS controls *Microdochium nivale*, *Fusarium culmorum* and *Septoria nodorum* resulting in reductions of Seedling Blight, Stem-Base Browning, Snow Mould and *Septoria* Seedling Blight and controls seed-borne and soil-borne Common Bunt (*Tilletia caries*).

Winter and Spring Barley

AUSTRAL PLUS controls *Microdochium nivale* and *Fusarium culmorum* resulting in reductions of Seedling Blight, Stem-Base Browning and Snow Mould. AUSTRAL PLUS controls Covered Smut (*Ustilago hordei*) and gives partial control of leaf stripe (*Drechslera graminea*). The control of Leaf Stripe may not be sufficient for crops grown to produce seed for certification.

Winter and Spring Oats

AUSTRAL PLUS controls *Microdochium nivale* and *Fusarium culmorum* resulting in reductions of Seedling Blight and Stem-Base Browning. AUSTRAL PLUS controls *Pyrenophora* Leaf Spot (*Pyrenophora avenae*).

CROP SPECIFIC INFORMATION

For use on winter and spring varieties of wheat, barley and oats.

Timing

Before drilling

Rates of use

Apply 0.5 litre product per 100 kg seed

Latest time of application

Before drilling

MIXING AND SPRAYING

For containers under 20 litres: Shake container thoroughly before use.

For containers over 20 litres: Agitate container thoroughly before use e.g. by rolling containers on a level floor bearing in mind the following warning: Containers of greater than 20 litres capacity should be handled only with mechanical assistance.

For 20 litre ‘anti-glug’ plug container: Remove both caps. Pierce the ‘anti-glug’ plug. Add the required amount of AUSTRAL PLUS, then replace both caps.

AUSTRAL PLUS should be applied directly to the seed using conventional seed treatment equipment. Continuous flow treaters should be calibrated using AUSTRAL PLUS before use.

On emptying, rinse container thoroughly by using an integrated pressure device or manually rinsing three times. Dispose of the washings safely.

Seed quality

Do not use on seed with a moisture content above 16% or on sprouted, cracked or damaged seed. Use only good quality seed tested for viability using a suitable germination test before treatment.

Storage of treated seed

Seed should be stored in a cool, dry, ventilated building. Drill within 3 months of treatment.

Seedbed preparation and drilling

Seed treated with AUSTRAL PLUS may affect the flow rate of seed through drills. It is therefore important to check the calibration of the drill with AUSTRAL PLUS treated seed before drilling commences.

Prepare a firm, even seedbed and drill to a depth of 2.5–4.0 cms. AUSTRAL PLUS is not known to have any adverse effect on seed germination or crop emergence but poor seed quality or seedbed conditions (waterlogged, capped, dry, fluffy or cloddy seedbeds) may result in delayed emergence and/or poor establishment. Similarly, avoid deep or shallow drilling which can adversely affect crop establishment and may reduce the level of pest control.

Seed spillages

In case of seed spillage, clean up as much as possible into the related seed sack and re-use the clean seed. Bury the remainder completely.

After use

Dispose of product concentrate, empty containers and contaminated seed bags according to the “Code of Practice for the Safe Use Of Pesticides on Farms and Holdings” available from HMSO. Do not re-use containers for any purpose.

SEED TREATMENT

COMPANY ADVISORY INFORMATION

Resistance management: There are no known cases of resistance to AUSTRAL PLUS in the UK to date for any of the pests listed on this label. However, the possible development of resistance cannot be excluded or predicted and control may be reduced if strains of pest resistant to tefluthrin or fludioxonil develop.

Seed bag labels are available from Syngenta Crop Protection UK Ltd.

SEED BAG LABEL

This seed has been treated with AUSTRAL PLUS.

Contains fludioxonil and tefluthrin for control against seed-borne diseases and also soil-borne bunt and for reducing damage by wheat bulb fly and wireworm on winter and spring crops of wheat, barley and oats.

MAPP 13314

PRECAUTIONS

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES, FACE PROTECTION (FACESHIELD) AND SUITABLE RESPIRATORY PROTECTIVE EQUIPMENT# when handling treated seed or contaminated seed sowing equipment.

minimum requirement a disposable filtering facepiece respirator to EN 149, FFP3(S) or equivalent.

WASH HANDS AND EXPOSED SKIN before meals and after work.

DO NOT USE TREATED SEED as food or feed.

DO NOT RE-USE SACKS THAT HAVE CONTAINED TREATED SEED for food or feed.

DO NOT HANDLE SEED unnecessarily.

DO NOT APPLY TREATED SEED FROM THE AIR.

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

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.

HARMFUL TO GAME AND WILDLIFE. Bury or remove spillages.

TREATED SEED MUST NOT BE BROADCAST.

INFORMATION

- 1 Seed should be stored in a cool, dry, ventilated building. Drill within 3 months of treatment.
- 2 Seed treated with AUSTRAL PLUS may affect the flow rate of seed through drills. It is therefore important to check the calibration of the drill with AUSTRAL PLUS treated seed before drilling commences.
- 3 Avoid deep or shallow drilling as this may reduce the level of pest control.
- 4 Where egg counts indicate a high risk of severe attack by wheat bulb fly (more than 5 million eggs/ha), a follow-up spray (egg hatch or dead heart) may be justified.
- 5 AUSTRAL PLUS provides protection during emergence and early establishment against damage by wireworms feeding below ground. AUSTRAL PLUS reduces plant loss during

S E E D T R E A T M E N T

establishment and improves crop vigour but is non systemic and so may not prevent damage by wireworms attacking plants at the soil surface. Where there is a high risk of a severe attack by wireworm (e.g. population exceeds 1.25 million/ha), apply a suitable follow up treatment.

- 6 In case of seed spillage, clean up as much as possible into the related seed sack and re-use the clean seed. Bury the remainder completely.

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 any time

S E E D T R E A T M E N T

SAFETY PRECAUTIONS

(a) Operator protection

Engineering control 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 or applying the concentrate, or when handling contaminated surfaces.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES, FACE PROTECTION (FACESHIELD) AND SUITABLE RESPIRATORY PROTECTIVE EQUIPMENT# when cleaning contaminated equipment.

minimum requirement a disposable filtering facepiece respirator to EN 149, FFP3(S) or equivalent.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES, FACE PROTECTION (FACESHIELD) AND SUITABLE RESPIRATORY PROTECTIVE EQUIPMENT# when bagging treated seed.

minimum requirement powered visor respirator EN 146 THP2 or equivalent.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES, FACE PROTECTION (FACESHIELD) AND SUITABLE RESPIRATORY PROTECTIVE EQUIPMENT# when handling treated seed or contaminated seed sowing equipment.

minimum requirement a disposable filtering facepiece respirator to EN 149, FFP3(S) or equivalent.

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

AVOID ALL CONTACT WITH SKIN.

TAKE OFF IMMEDIATELY all contaminated clothing.

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

WASH CONCENTRATE from skin or eyes immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.

(b) 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.

TREATED SEED IS HARMFUL TO GAME AND WILDLIFE. Bury or remove spillages.

DO NOT USE TREATED SEED as food or feed.

SACKS CONTAINING TREATED SEED MUST NOT BE USED FOR FOOD OR FEED.

TREATED SEED MUST NOT BE BROADCAST.

DO NOT APPLY TREATED SEED FROM THE AIR.

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

(c) Storage and disposal

EMPTY CONTAINER COMPLETELY and dispose of safely.

KEEP IN ORIGINAL CONTAINER, tightly closed in a safe place under lock and key.

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.

For containers greater than 20 litres

OPEN CONTAINER ONLY AS DIRECTED

AUSTRAL PLUS



**DANGEROUS
FOR THE
ENVIRONMENT**

Contains 10 g/litre fludioxonil and 40 g/litre tefluthrin as a flowable concentrate for seed treatment.

VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

Keep out of reach of children.

When using do not eat, drink or smoke.

Keep away from food, drink and animal feeding stuffs.

Avoid contact with skin.

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.

SEED TREATMENT

THE (COSHH) CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH REGULATIONS MAY APPLY TO THE USE OF THIS PRODUCT AT WORK

IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL SEED TREATMENT

For use on: Wheat (seed), barley (seed), oats (seed)

Maximum Individual Dose: 0.5 litre product per 100 kg seed

Maximum Number of Treatments: One per batch

Latest Time of Application: Before drilling

Other Specific Restrictions:

Treated seed must not be used for food or feed.

Sacks containing treated seed must not be re-used for food or feed.

Treated seed must not be applied from the air.

Treated seed must be labelled using the printed sacks, labels or bag tags supplied.

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.

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 any time.