



syngenta®

Reg. No. L10418 Wet No. 36 of 1947

GROUP	12 3	FUNGICIDE
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GROUP	4A	INSECTICIDE
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Active ingredients:
fludioxonil (phenylpyrrole)..... 25 g/l
difenoconazole (triazole)..... 25 g/l
thiamethoxam (neonicotinoid)... 262.5 g/l

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WARNING

A flowable concentrate fungicide and insecticide with contact and systemic properties for control of diseases and insects affecting the crop as indicated during its implementation stage.

Hazard statements: Suspected of damaging fertility. Suspected of damaging the unborn child. Very toxic to aquatic life with long-lasting effects.

Precautionary statements: Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. **Response:** If exposed or concerned, get medical advice/attention. Collect spillage. **Disposal:** Dispose of contents/container to an approved waste disposal plant.

EMERGENCY TEL NO.:
+27 82 446 8946 (Griffon)

UN 3082

Registration holder
Syngenta South Africa (Pty) Ltd
Co. Reg. No. 1998/013761/07
Private Bag X 60
HALFWAY HOUSE, 1685
Tel.: +27 11 541 4000

1. WARNINGS:

Hazard statements: Suspected of damaging fertility. Suspected of damaging the unborn child. Very toxic to aquatic life with long-lasting effects.

Withholding periods: Minimum number of days between last application and harvest.

CEREALS (barley and wheat)..... **56 days**

NOTE: Compliance with these withholding periods will ensure that residues do not exceed local maximum residue limits (MRL), but the import tolerances of other countries might possibly be exceeded. If the crop to be treated is intended for export, consult the relevant importer or exporting body regarding the use of this product, MRL and recommended withholding periods.

- Harmful if swallowed.
- Toxic to fish and other aquatic organisms with long-lasting effect.
- Store in a cool dry place.
- Store away from food and feed.
- Avoid storage above 35°C.
- Keep out of reach of children, uninformed persons and animals.
- Do not use treated seed for human or animal consumption.
- Do not allow grazing or animal feeding up to grain harvesting stage.
- Do not carry treated seed over for planting in the following season.

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 and the environment, or harm to people 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, that could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

2. PRECAUTIONS:

Precautionary statements: Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. **Response:** If exposed or concerned, get medical advice/attention. Collect spillage. **Disposal:** Dispose of contents/container to an approved waste disposal plant.

- Keep out of reach of children and uninformed people.
- Avoid contact with skin, eyes, or clothing.
- This product is harmful if swallowed or absorbed through the skin.
- Wash contaminated clothing after use.
- Do not eat, drink, or smoke whilst mixing or applying the product or before washing hands and face.
- While handling the concentrate or during treatment of seed, wear overalls, a face shield, hat or cap, gloves and solid footwear.
- Clean applicator after use. Dispose of rinsate where it will not contaminate crops, pastures, rivers, dams and boreholes.
- Prevent contamination of food, feed, drinking water and eating utensils.
- Destroy triple rinsed empty perforated container in the prescribed manner and do not use it for any other purpose.
- When treated seed is stored, mark clearly and never use for any other purpose.

2.1 Environmental Hazards

- Thiamethoxam is highly toxic to bees, although as a seed treatment no exposure to bees is expected.
- Remove any hives within 4 km from the planting area for 30 days and take care not to contaminate drinking water of bees.

- Slightly toxic to aquatic life, therefore care should be taken not to contaminate water environments such as lakes and ponds.
- Slightly toxic to birds, therefore treated seed should be buried properly and should be completely covered by soil.

First Aid and Medical Treatment:

In case of poisoning, call a doctor or a poison information center. **Tygerberg Poison Information Center at +27 86 155 5777 or Griffon Poison Center at +27 82 446 8946.** Transfer the patient to a well-ventilated area.

- **Skin contact:** Remove contaminated clothing and wash affected body parts with soap and water.
- **Eye splash:** Rinse eyes with clean water, also under the eye lids for 15 minutes and then seek medical advice.
- **Inhalation:** If inhaled, move to clean air immediately, keep warm and at ease. If in respiratory arrest, artificial respiration is needed, then seek medical advice.
- **Swallow:** DO NOT induce vomiting. Seek medical advice immediately and present this label. Provide clean water to the patient. NEVER give anything by mouth to an unconscious patient.

Note: No specific antidote is known, apply symptomatic therapy.

3. RELEVANT SUBSTANCES:

Chemical name	
Thiamethoxam (ISO)	
Classification	Concentration (% w/w)
Flam. Sol. 1; H228 Acute Tox. 4; H302 Repr. 2; H361fd Aquatic Acute 1; H400 Aquatic Chronic 1; H410	≥ 20 - < 25
M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	

4. RESISTANCE MANAGEMENT:

CELEST TOP is a group code 3 and 12 fungicide. Any fungus population may contain individuals naturally resistant to **CELEST TOP** and other group code 3 or 12 fungicides. The resistant individuals can eventually dominate the fungus population if these fungicides are used repeatedly and exclusively in programs. These resistant fungi may not be controlled by **CELEST TOP** or any other group code 3 or 12 fungicides.

CELEST TOP is also a group code 4A insecticide. Any insect population may contain individuals naturally resistant to **CELEST TOP** and other group code 4A insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly and exclusively in programs. These resistant insects may not be controlled by **CELEST TOP** or any other group code 4A insecticides.

To delay fungicide and insecticide resistance:

- Avoid exclusive repeated use of fungicides or insecticides from the same fungicide or insecticide group code. Alternate with products from different fungicide or insecticide group codes.
- Refer to individual product labels when alternating products in fungicide group codes 7, 27, 28, 29, 30 and M.
- Integrate other control methods (chemical, cultural, biological) into disease control programs.

Development of resistance to fungicides and insecticides by seed and soil-borne disease pathogens or insects has been documented. Consult your agricultural advisor or Syngenta representative immediately should resistance be suspected and for guidance and strategies for disease management.

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> or IRAC website at <http://www.irac-online.org/countries/south-africa/>.

5. PRODUCT PROPERTIES:

CELEST TOP is a formulation with the action of three (3) active ingredients, providing fungicide and insecticide activity, without affecting the germination of the treated seed.

The two (2) fungicides have complimentary modes of action. Difenconazole (triazole) is absorbed by the roots and translocated through the seedling and translaminar, exerting systemic action. It inhibits the development of the mycelium of fungi and prevents the development of disease symptoms. Fludioxonil (phenylpyrrole), a contact fungicide with residual activity, interferes with the process of osmotic regulation through inhibition of protein kinase. The combination of both actives gives a wide spectrum of disease control and persistence of action, protecting against pathogens affecting seeds and seedlings.

CELEST TOP also provides control of soil insects through thiamethoxam (neonicotinoid). Thiamethoxam is absorbed by the roots, moving systemically to the rest of the seedling. It has quick action on contact and stomach, and affects the nervous system.

6. DIRECTIONS FOR USE: Use only as indicated.

6.1 Application Information

CELEST TOP should be applied to seed as a dilution (slurry). The dilution is prepared by adding the appropriate dose of **CELEST TOP** to clean water.

For preparation of the dilution (slurry):

- Add the water to the container in which the mixture is prepared to half the total volume.
- Shake the product before opening.
- Add the required amount of **CELEST TOP** according to the quantity of seed to be treated.
- Stir mechanically or manually to obtain a smooth mixture.
- Fill with water up to the total required volume of mixture.
- Keep agitated at all times.
- The dilution must be used within 24 hours after preparation.

Treatment procedure as slurry example:

Product + water = slurry (to be applied onto seed)
Crop: 240 ml + 1 000 ml = 1 240 ml/100 kg seed

Please optimise the water volume added to the slurry, depending on the crop to be treated. For advice, please contact the Syngenta Seedcare Institute.

For good crop protection, it is essential to distribute the product evenly, ensuring uniform coverage of each seed. The product should be applied with suitable equipment for seed treatment. DO NOT apply **CELEST TOP** directly to the planter. At the time of sowing, the seed drill must be calibrated with seed treated with **CELEST TOP**, because the seed will flow slower.

All equipment used should be cleaned immediately after application. Leave to drain the entire system and rinse three (3) times until all foam and leftover formulation is removed. Discard the liquid where it poses no risk of contamination to surface or groundwater.

6.2 Use Restriction

The seed treated with **CELEST TOP** is clearly distinguished by its red colour, given by the dye containing formulation. The seed that has been treated should be used exclusively for planting and never be used for human or animal consumption.

6.3 Compatibility

The product should not be mixed with any other agrochemical because compatibility was not tested.

BARLEY

Disease	Dosage
Damping-off	240 ml/100 kg saad
Seedling blight and root rot (<i>Fusarium</i> spp.) (<i>Pythium</i> spp.)	
Pests Aphids Wire worm	
Remarks Treated seed will not necessarily provide full control of aphid numbers. Some aphids may still occur on treated plants, but their detrimental effect on plant growth and the consequential reduction in yield should be limited.	

WHEAT

Disease	Dosage
Damping-off	240 ml/100 kg saad
Seedling blight and root rot (<i>Fusarium</i> spp.) (<i>Pythium</i> spp.)	

WHEAT cont.

Disease	Dosage
Stink smut/Common bunt (<i>Tilletia caries/Tilletia foetida</i>)	240 ml/100 kg saad
Loose smut (<i>Ustilago tritici</i>)	

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