CROP PROTECTION

Where innovation meets exceptional insect control



Harnessing world-class scientific excellence, FMC sets the benchmark in global research and innovation by delivering breakthrough new solutions for superior insect control. Circaden® Insecticide, powered by Cyazypyr®, is a revolutionary product that provides early-season insect protection whilst delivering complete plant health from seed to harvest.

It creates a unique action against a wide spectrum of sucking and chewing pests for a more resilient crop. Applications early in the crop cycle can help protect tender seedlings from certain insect-borne diseases, especially when used as part of an integrated pest management programme.

Circaden® Insecticide, known as a high-impact solution from FMC, offers broad-spectrum control against harmful insects such as white-fly, aphids, thrips, leaf miners and *Lepidoptera*, whilst improving crop establishment in crops such as tomato, sweet peppers and cabbage during early-season soil application.

Also referred to as cyantraniliprole (Cyazypyr®), which is renowned for its advanced performance and reliability, Circaden® Insecticide belongs to the Group 28, anthranilic diamide class. The Circaden® Insecticide formulation is designed for maximum movement and uptake through the root system, thus enhancing the product's ability to control a wide range of pests at different life stages. The insecticide binds to ryanodine receptors, which can be found on the sarcoplasmic reticulum of the insect muscle. The activation of those receptors causes the release and depletion of intracellular calcium, leading to muscle contraction and paralysis.

Reshma Gayaram
Marketing Lead Africa, FMC

FMC An Agricultural Sciences Company

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Symptoms include rapid cessation of feeding, general lethargy, paralysis and eventual pest death. Apart from providing high-quality products, FMC also invests in stewardship, promotes sustainable agricultural practices and ensures product safety.

In line with this commitment, Circaden® Insecticide has an excellent ecotoxicology and environmental profile and allows selective control of pests, whilst preserving beneficial arthropods.

Key benefits of Circaden® Insecticide

- **Dual-route activity:** Circaden® Insecticide works primarily through ingestion, with additional control through contact with Cyazypyr®.
- **Protects crops:** Helps prevent foliar injury and fruit damage caused by insect pests. Reduces disease risk: Assists in limiting the transmission of certain insect-vectored viruses.
- **Controls prolific pests:** Effective against a range of highly reproductive pest species.
- **Long-lasting protection:** Provides extended residual activity for sustained pest control.
- **Unique mode of action:** Cyazypyr® affects insect muscle function, leading to rapid feeding cessation.
- **Excellent plant protection:** Stops pest feeding quickly, reducing crop damage even before insect death occurs.
- **Supports IPM programmes:** Features a favourable environmental profile and is compatible with Integrated Pest Management (IPM) strategies.

To find out more about how Circaden® Insecticide insect control can increase the vigour of your crops for stronger, healthier plants with better quality and higher yields, visit the FMC website at www.ag.fmc.com/za/en or contact your nearest FMC area manager.



Circaden® Insecticide, Reg. no. L11488, Act no. 36 of 1947, contains *cyantraniliprole* (anthranilic diamide) – 200 g/l (Cyazypyr). Warning: harmful if inhaled, very toxic to aquatic life with long-lasting effects.

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