THIOPRON®

MULTISITE BIOFUNGICIDE FOR THE CONTROL OF FOLIAR DISEASE IN CEREALS

Contains sulphur 825g/L



BIOCONTROL

XANTHANE by UPL

FUNGICIDE

ZERO
RESIDUE
BIOCONTROL

- Preventative control of foliar diseases
- Advanced liquid formulation
- Ideal as a multisite partner
- Excellent rainfastness

Learn more at
www.upl-ltd.com/uk

UPL OpenAg™

THIOPRON®

THIOPRON is an innovative liquid multisite fungicide with a unique and highly effective formulation containing sulphur that works as a natural, zero residue active.

Whilst typical sulphur products contain mixed sized particles that vary greatly from 2 up to 5 microns, **THIOPRON**'s suspended concentrate contains a smaller, uniform particle size of just 1.2 microns, giving a more even coverage over the leaf for optimum efficacy.

The sulphur active reacts on the leaf surface to produce hydrogen sulphide gas. Toxic to pathogens such as septoria tritici and powdery mildew, the gas works as an antisporulant therefore preventing early infections and also reducing disease spread where disease is already present.

As a registered fungicide, **THIOPRON** has equivalent or better control compared with conventional multisite products with no known resistance, excellent rainfastness and a wide tank mix compatibility, making it ideal for use as part of an integrated control programme.

Available for use in cereals as a multisite fungicide, **THIOPRON** can be applied from BBCH 31 – 61.

Product profile	
Brand	**THIOPRON**
MAPP No.	19147
Active ingredient	sulphur
Inclusion rate	825g/L
Formulation	Suspension Concentrate (SC)
Crops	Barley, oats, rye, triticale, wheat, sugar beet, blackcurrant and redcurrant (outdoor), gooseberry (outdoor), strawberry (outdoor), table grapes (outdoor), wine grapes (outdoor), swede (outdoor), turnip (outdoor).
Maximum individual dose	9.7L/Ha for cereals and sugar beet. For all others see label.
Maximum number of applications	Two per crop for cereals and sugar beet. For all others see label.
Latest timing of application	Before beginning of flowering first anthers visible (BBCH61).
Pack size	10L
Buffer zone	5m Arthropod buffer

RECOMMENDATIONS

FOR USE IN CEREAL PROGRAMMES FROM GS31 TO GS61

A working rate of 2 – 3L/Ha of **THIOPRON** is suggested when applied in combination with a cereal fungicide containing an alternative mode of action such as a triazole or SDHI.

THIOPRON acts as multisite fungicide and is an effective resistance management tool when applied as part of an IPM strategy.

Always read the label to check on application details and label restrictions.

ADVANCED FORMULATION

FINE AND HOMOGENEOUS PARTICLE SIZE

THIOPRON contains homogeneous sized sulphur particles, neither too small nor too large, for maximum efficiency of the sublimation process for gas production.



Sulphur WG 3µm (from 2 to 5µm)



THIOPRON 1.2µm

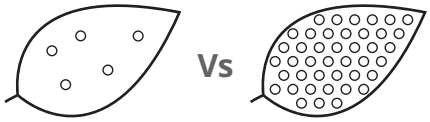
BETTER ADHERENCE

Includes **Xanthane**, an adjuvant that is naturally sourced and food grade quality, for improved sticking of the active to the leaf surface and enhanced rainfastness.

XANTHANE by UPL

OPTIMISED LEAF COVERAGE

High quality formulation delivers an even spread of the active ingredient for better coverage and optimised efficacy.

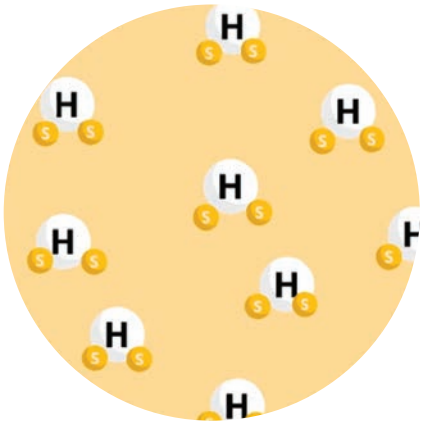


Sulphur WG **THIOPRON**

MODE OF ACTION



Sulphur works as a multisite fungicide through the production of hydrogen sulphide gas produced by a process known as sublimation, which is the transition of a solid substance to a gas state without passing through a liquid phase.



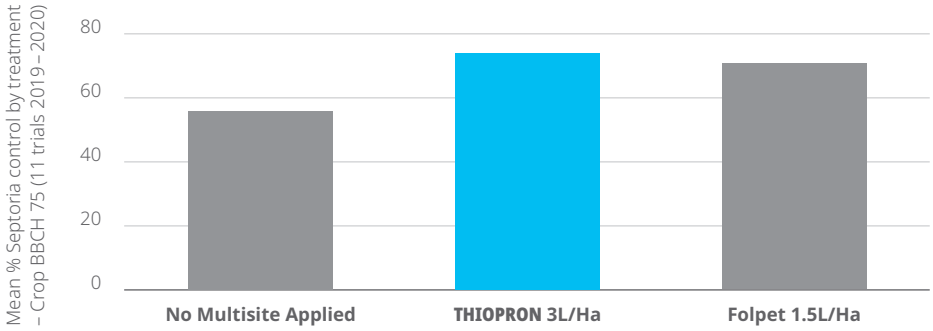
Atmospheric hydrogen binds with the sulphur to form hydrogen sulphide gas.



This creates a gas layer on the leaf surface that is toxic to fungal pathogen infections, causing a curative effect by penetrating through the lipidic membranes, attacking fungal cells and breaking the cell membrane. The hydrogen sulphide gas of **THIOPRON** also toxifies the leaf surface to protect against the establishment of new fungal spores.

EFFECTIVE MULTISITE CONTROL

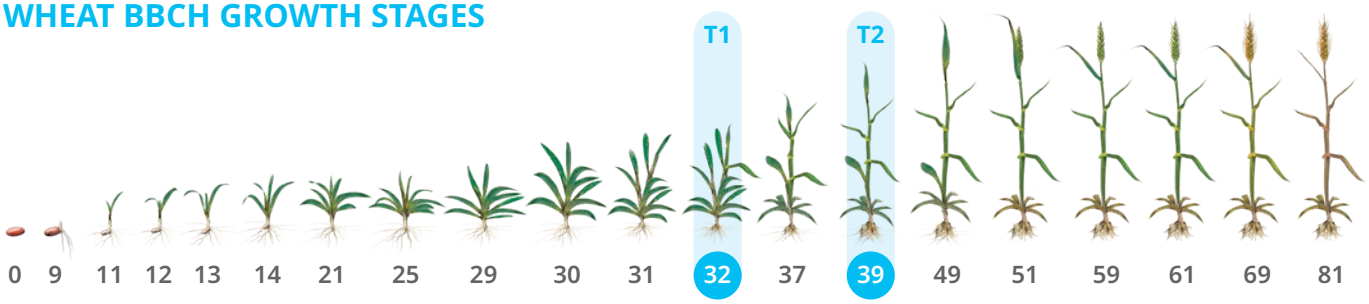
THIOPRON offers cost effective multistite control of fungal diseases such as septoria, with performance comparable to the maximum dose rates of leading conventional chemistry.



All treatments received a standard triazole based fungicide programme with the specified multisite product applied at both T1 and T2 spray timings.

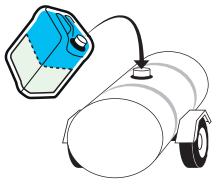
TIMING AND APPLICATION

WHEAT BBCH GROWTH STAGES



TANK MIXING

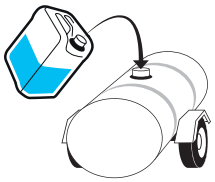
THE PRODUCT MUST BE CORRECTLY APPLIED TO GUARANTEE STRONG ADHERENCE



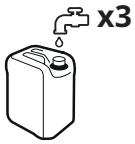
1. Empty ½ of the container into the tank.



2. Close and shake up the rest of the container.



3. Empty the rest of the container into the tank.



4. Rinse the container three times, let it drain off and dispose of it appropriately as per the recommendations on the label.

If the application is interrupted, the machine must be rinsed (tubes and nozzles)

Please contact UPL or your usual advisor for approved tank mix guidance with other products.

www.upl-ltd.com/uk

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