



Veritas[®] Fungicide FAQ's

What is Veritas[®]?

Veritas[®] is a unique strobilurin and triazole fungicide registered for use in wheat and barley and also covered by permit for use in Chickpeas and Lentils.

Veritas[®] was developed to provide simple, easy to use, broad spectrum foliar disease control against multiple life cycle stages of key Cereal and Pulse diseases in Australia.

How do the components of Veritas[®] work?

Azoxystrobin is a strobilurin fungicide with strong activity on both germinating spores and on the early stages of fungal development. It is redistributed via limited systemic movement – both translaminar and acropetal within the leaf. By inhibiting spore germination and hyphal penetration of the host crop, azoxystrobin provides excellent preventative disease control.

Tebuconazole is a triazole fungicide and is rapidly absorbed by leaves and translocated acropetally. As a sterol demethylation inhibitor (DMI), tebuconazole inhibits the production of ergosterol, a component of the cell membrane in a wide range of fungi. DMIs are active on the mycelia (vegetative growth) of the fungi with limited direct activity on spores. DMIs also need to be applied preventatively to stop mycelial growth within the host plant, to stop sporulation, prevent new infections occurring and minimise yield loss from reduced leaf area.

The combination of both modes of action in Veritas[®] provides strong preventative disease control.

What is the best time to use Veritas[®]?

Veritas[®] should always be applied when conditions favour disease but prior to development of symptoms in the crop.

Cereals

The objective of applying Veritas[®] in cereals is to protect the upper 2 to 3 leaves – especially the flag leaf, which can account for up to 75% of the final yield. Keeping these leaves green and functioning throughout grain filling stage will assist in maximising the crop's yield potential.

In barley, application should be from late tillering to early jointing for all diseases including Leaf Scald. The higher label rates should be used when longer disease control is required for Leaf Rust, Powdery Mildew and suppression of Net Blotch.

In wheat, application should be from start of jointing to early head emergence. The highest label rates should be used to target Septoria Tritici Blotch or when longer disease control is required against Leaf Rust, Stripe Rust, Septoria Nodorum Blotch, and Yellow Leaf Spot.

Pulses

In Chickpeas and Lentils apply as soon as conditions favour the development of the disease and use in a programed approach with other fungicides.



Can I use Veritas® once the signs of disease are evident?

Veritas® should be applied as a preventative fungicide, not as a curative after moderate to high levels of disease infection are present in the crop. If an earlier spray timing opportunity has been missed and initial disease symptoms are present then it is recommended that growers apply the higher application rate.

Efficacy

What length of residual protection does Veritas® provide?

Veritas® @ 315 mL/Ha in cereals will protect leaves and stems for a period of 3-4 weeks. However, regular monitoring of the crop needs to be carried out for signs of re-infection. If longer residual control is required, use the high rate (630 mL/Ha) which can provide protection for up to 6 weeks, but again should be used in conjunction with crop monitoring.

Veritas® used at the 1 L/Ha permitted rate in Pulses will provide protection for up to and exceeding 4 weeks depending on conditions and disease pressure. Longer protection will be achieved where Veritas® is applied early and before diseases become established.

How does Veritas® perform relative to other Cereal fungicides?

Veritas® offers strong protection for wheat and barley crops and a similar level of control compared to Amistar* Xtra, Opera*, and Prosaro*. Unlike fungicides which only contain a triazole component i.e. Prosaro, Cogito; Veritas® protects cereal yields by stopping diseases before they develop. Veritas® can also maintain yield potential by delaying the natural senescence of plants, prolonging photosynthetic activity and aiding in achieving maximum yield potential.

How does Veritas® perform relative to other Pulse fungicides?

In trials carried out over the past three years Veritas® has consistently outperformed currently registered options for disease control in Pulses. Length of disease protection and ability to control established infection has been shown in trials to be consistently superior to mancozeb, carbendazim and chlorothalonil formulations.

Fungicide Resistance Management

How many applications can I apply of Veritas® per season?

Cereals

DO NOT apply more than two sprays of Veritas® (or any other strobilurin or Group 11 fungicide) in any one paddock in a growing season. Care also needs to be taken when Veritas® is used in a Cereal program with Orius®, Prosaro*, Cogito* or any other tebuconazole based fungicide to ensure MRL levels are not exceeded.

Pulses

In Chickpeas and Lentils apply a maximum of two applications per crop.

How should Veritas® be used in a program with other fungicides from alternative activity groups?

Veritas® should be used in conjunction or rotation with an effective in-furrow fertiliser treatment or seed treatment and the application of foliar fungicides from alternative fungicide groups if required.

Is Veritas® use subject to any Resistance Management strategies in Cereals?

The CropLife Australia Fungicide Resistance Management Review Group recommends the following Resistance Management Strategy in relation to use of Group 3 + Group 11 fungicides in Barley for control of Powdery Mildew: Treat as a Group 11 fungicide for resistance management purposes.

- Apply only as a protectant treatment – where no more than 5% leaf area infection is evident anywhere in the canopy
- DO NOT apply more than two sprays per growing season
- DO NOT apply consecutive sprays within a spray program
- DO NOT rotate with alternative DMI fungicides which are known to have compromised resistance status
- Use only on Barley varieties which are rated as Moderately Susceptible (MS) or better for Powdery Mildew.



Is Veritas® use subject to any Resistance Management strategies in Pulses?

As no Group 3 + Group 11 fungicides are currently registered for use in Pulses the Croplife Resistance Management strategy does not include guidance on use of Veritas® in these crops. Similar principles should be adhered to as those listed in other fungicide resistance management strategies, such as not overly relying on fungicides from the same Group. Veritas® if used in a program with Group 1, Group 2 and M3 fungicides will be a valuable tool for resistance management in Pulses.

Application

What volume of water should I use per hectare to apply Veritas®?

Ground Application – minimum 50 L water/Ha but 50 L to 100 L water/Ha is recommended for optimum coverage, especially when applying to dense crops.

Aerial Application – minimum 10 L water/Ha but 20-30 L water/Ha is recommended for optimum coverage, especially when applying to dense crops.

Do I need to add a wetting agent or spray oil?

Veritas® does not require the addition of surfactants or wetters.

What is the Rainfast period for Veritas®?

Veritas® will be rainfast when applied with a minimum good weather window[#] of 2 hours. Under humid/slow drying conditions, it may take longer than 2 hours for the spray to dry on the plant surface.

A good weather window refers to climatic factors such as Temperature, Humidity, Wind and Rain

Will poor water quality affect the efficacy of Veritas®? Can I use bore water or river water when applying Veritas®?

As with water for all agricultural chemical applications, the best water available (usually rainwater) should be used. Regardless of source the water should be free of silt, neutral in pH and free of foreign matter which may block nozzles.

Does droplet size have an impact on efficacy? How important is coverage to efficacy?

Ground Application – do not apply the product with spray nozzles that will produce a droplet any smaller than a medium size droplet. Refer to the ASAW S572 standard for more information. In pulses 100 L water/Ha is recommended for optimum coverage.

Aerial application – apply a minimum of 10 L water/Ha however 20-30 L water/Ha is recommended for optimum coverage in cereals. In pulses 30 L water/Ha is recommended.

Compatibility

Veritas® Fungicide has been tested with a wide range of crop protection products for physical compatibility

What herbicides can I mix with Veritas®?

Adama have tested the following herbicides and confirmed they are compatible with Veritas®; 2,4 -D LV Ester, 2,4 -D Amine, Affinity Force*, Colt®, Crusader*, Cutlass®, Cutlass® M, Eclipse*, Enforcer® 75D, Diuron WG, Hussar*, Intervix*, Legacy® MA, Lonestar®, Lontrel*, MCPA 570, Lynx®, Mandate®, MCPA 750, Mentor®, Pentagon®, Precept*, Tackle®, Trident®, Velocity*, Wildcat*
Please refer to the Veritas compatibility guide for specific details.

What insecticide products can I mix with Veritas®?

Adama have tested the following insecticides and confirmed they are compatible with Veritas®; Alpha-Scud® Elite, Dimethoate

Can I use a pH buffering agent in my tank mix?

Yes. There are no issues with adjusting water pH prior to mixing with Veritas® providing the pH is within the normal range for spraying agricultural chemicals



What is the mixing order with Veritas® in tank mixes?

Veritas® is a Suspension Concentrate. Follow the Adama Tank Mix Recommendation Chart when adding other mixing partners.

Safety

Are there any non-target crops that are particularly sensitive to Veritas®?

Yes. Veritas® is extremely phytotoxic to certain apple varieties. DO NOT spray Veritas® where spray drift may reach apple trees or when conditions favour drift beyond the area intended for application.

What are the withholding periods?

Cereal Withholding Periods:

DO NOT harvest Cereal crops treated with Veritas® for 6 weeks

DO NOT graze or cut Cereal crops treated with Veritas® for 21 days

Export Slaughter Interval (ESI): After observing the withholding period for grazing, livestock that have grazed on have or been fed treated crops should be placed on clean feed for 7 days prior to slaughter.

Pulse Withholding Periods:

Harvest: DO NOT harvest for 28 DAYS after application.

Grazing: DO NOT graze or cut for stock food for 21 DAYS after application

Storage and Availability

What's the shelf life of the product?

Veritas® has a guaranteed stable shelf life of two years.

Where can I buy Veritas®?

Veritas® will be available from Adama Innovation Centre distributors who are trained in the technical positioning and use of the product.

What pack sizes is Veritas® available in?

Veritas® will be available in a 10L pack size.



Hong Kong | Singapore | Malaysia | Australia

Email: info@centaur-asiapacific.com

Website: www.centaur-asiapacific.com



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