Vertisan®/Intellis®
fungicides

Important changes since last printing
New product added.
New MAPP numbers.
Removal of Arthropod buffer zone restriction.

Formulation
An emulsifiable concentrate containing 200 g/l penthiopyrad.

Recommended crop(s)
Winter wheat and spring wheat (not durum or red), winter rye, triticale, winter barley and spring barley
(including undersown with grass), winter oats and spring oats.

Target weeds/pest/disease
Wheat:  *Septoria tritici, Leptosphaeria* (syn. *Septoria*) *nodorum*, yellow rust (moderate control),
tan spot (reduction).
Winter rye:  Leaf blotch (moderate control).
Triticale:  *Septoria tritici* (moderate control), yellow rust (moderate control).
Oats:  Crown rust.

Use rate
Up to 1.5 l/ha.

Water volume and spray quality
Apply in 200-300 l/ha of water as a MEDIUM spray quality at a pressure of 2-3 bar.

LERAP information
Category B – 5m buffer zone, which can be reduced depending on dose rate, width of watercourse,
sprayer type or 1m zone if ditch is dry.

Rainfastness
Rainfast 2 hours after application, provided good drying conditions.

Limit to number of applications
Wheat, rye, triticale, barley and oats – 2 per crop.

Latest time of application
Wheat, rye and triticale:  Apply up to the end of flowering (GS69).
Barley and oats:  Apply up to the end of flowering (GS69).

Pack
5 litres.

Area treated per pack
3.33 ha at maximum label dose.
**Important information and restrictions**

**IMPORTANT INFORMATION**

FOR USE ONLY AS A PROFESSIONAL FUNGICIDE.

<table>
<thead>
<tr>
<th>Crops</th>
<th>Maximum individual dose</th>
<th>Maximum number of treatments</th>
<th>Latest time of application</th>
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<tbody>
<tr>
<td>Wheat, rye, triticale</td>
<td>1.5 l/ha</td>
<td>2 per crop</td>
<td>GS69 (end of flowering)</td>
</tr>
<tr>
<td>Barley, oats</td>
<td>1.5 l/ha</td>
<td>2 per crop</td>
<td>GS69 (end of flowering)</td>
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**Other specific restrictions:**

To reduce the risk of resistance developing in target diseases a maximum of 2 foliar applications of product(s) containing SDHIs can be applied to any cereal crop. As the product is a skin sensitizer a minimum water volume of 100L of water per 1L product must be used.

Apply SDHI fungicides always in mixtures. The mixture partner:
- should provide satisfactory disease control when used alone on the target disease.
- must have a different mode of action.

In order to prevent contamination of groundwater, the second application to all crops must be made after GS39. A maximum total dose of not more than 500g penthiopyrad/hectare may be applied in a two year period on the same field.

**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.**
Restrictions

Vertisan® should not be applied to any crop suffering from stress as a result of drought, waterlogging, low temperatures, nutrient or lime deficiency or other factors reducing crop growth.

Avoid application in either frosty or hot, sunny weather conditions.

Do not apply more than two foliar applications of SDHI containing products to any cereal crop.

Only apply Vertisan® in tank-mixture with another fungicide.

Following crops

There are no following crop restrictions.

General information

Vertisan® contains penthiopyrad, a broad-spectrum fungicide from the carboxamide group. Carboxamides are classified as succinate dehydrogenase inhibitor (SDHI) by the Fungicide Resistance Action Committee (FRAC). Penthiopyrad inhibits fungal respiration and should be used in mixture with fungicides with other modes of action.

Vertisan® shows good crop safety, disease control and maintenance of green leaf area which results in significant yield benefits. Vertisan® is best used as a protectant treatment or in the earliest stages of disease development.
**Directions for use**

**Crops/varieties and timing**
Vertisan® may be used on all winter and spring crops of wheat, barley, oats, rye and triticale. It may also be applied to barley undersown with grass. Vertisan® may be applied on barley and oats from the beginning of stem elongation (GS30) up to the end of flowering (GS69). Vertisan® may be applied on wheat, rye and triticale from the beginning of stem elongation (GS30) up to the end of flowering (GS69).

Best results will be achieved from applications made as a protectant treatment or in the early stages of disease development. Apply before disease is established in the crop. Vertisan® should always be applied in tank mixture with another fungicide with an alternative mode of action.

Up to 2 treatments of Vertisan® may be applied to a crop. If, following a disease risk assessment or the use of appropriate decision support systems, a second treatment is required, this may be applied after an interval of 21 days.

Vertisan® is accepted by the BBPA for use on crops for malting.

**Crop safety**
Vertisan® is safe to recommended crops if used as directed.

**Rate of use**

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<th>Apply Vertisan® up to twice up to a maximum individual dose of 1.5 l/ha.</th>
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<td>To avoid any disease resistance developing it is necessary to use Vertisan® in mixture with another product recommended for the control of the target disease, and from a different cross resistance group. Rates used may be subject to adjustment depending on variety, tank-mix partner and disease pressure.</td>
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Application
Apply in 200-300 litres/ha of water using spraying equipment to give good even coverage of the crop. The higher volumes are recommended when the crop is dense. A spray pressure of 2-3 Bar is recommended. Avoid spray drift onto neighbouring crops.

Weather
Rainfall within 2 hours of application may reduce the effectiveness of the treatment.

Soil
Apply under good growing conditions with adequate soil moisture. Avoid poor growing conditions, which may give less reliable results.

Resistance management
Use Vertisan® as part of an Integrated Crop Management (ICM) strategy incorporating other methods of control, including where appropriate other fungicides with a different mode of action. Disease control may be reduced if strains of pathogens less sensitive to penthiopyrad develop. Isolates with reduced sensitivity to SDHI fungicides have been detected.

When fungicides with the same mode of action are used repeatedly over several years in the same field, naturally occurring less sensitive strains may survive, propagate and become dominant in that field. A pathogen is considered resistant to a fungicide if it survives a correctly applied treatment at a recommended dose and timing, under normal weather conditions.

Vertisan® must always be used in mixture with another product, recommended for control of the same target disease that contains a fungicide from a different cross resistance group and is applied at a dose that will give robust control.

Do not apply more than two foliar applications of SDHI containing products to any cereal crop. Mixtures of two or more SDHI fungicides do not provide an anti-resistance strategy. Each application of such a mixture counts as one SDHI application. Users should refer to current FRAC guidelines for SDHI compounds.
Disease controlled.
At the recommended rate of application Vertisan® controls the following diseases:

<table>
<thead>
<tr>
<th>DISEASE</th>
<th>ACTIVITY</th>
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<tr>
<td><em>Septoria tritici</em></td>
<td>C (wheat)</td>
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<td>MC (triticale)</td>
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<td>Brown rust</td>
<td>C (barley)</td>
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<td>Yellow rust</td>
<td>MC</td>
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<td>Tan spot (winter and spring wheat)</td>
<td>Reduction</td>
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<td>Net blotch</td>
<td>C</td>
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<td>Ramularia</td>
<td>MC (winter barley), C (spring barley)</td>
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<td><em>Rhynchosporium</em></td>
<td>MC</td>
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<td>Leaf blotch (triticale and rye)</td>
<td>MC</td>
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<tr>
<td>Crown rust</td>
<td>C (oats)</td>
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</table>

**KEY**: C = Control  MC = Moderate control

**Fungicide programmes/tank mixes**
Vertisan® is a formulation of straight SDHI. For the purposes of resistance management and efficacy, a tank-mix of Vertisan® + partner product has proven to provide the optimum disease control strategy. Vertisan offers the ultimate flexibility in partner product choice which can be varied to suit the situation being targeted. In wheat when septoria is targeted, the partner product will typically be based on epoxiconazole or prothioconazole. Chlorothalonil can be added to these mixes to offer broader disease control and more robust resistance management.

In its own right Vertisan® gives good control of yellow rust. When used in combination with a triazole, this is elevated to excellent yellow rust control to compliment the activity on Septoria and Brown rust.

In addition to excellent disease control, rooting improvements and crop greening have been documented in closely monitored experiments. This will clearly help the crop to forage for water and nutrients and is likely to be beneficial in helping the crop during short periods of drought.
Compatibility

Refer to Compatibility appendix.

Mixing

Ensure that the sprayer is clean and correctly set to give an even application at the required volume. Half-fill the spray tank with clean water and start agitation. Shake the container and add the required amount of Vertisan® to the sprayer using a filling device (e.g. induction bowl or closed transfer unit) or by direct addition to the sprayer tank. Wash out containers thoroughly, preferably using an integrated pressure rinsing device, or manually rinse three times. Add washings to the sprayer at the time of filling. Complete filling to the required volume and continue to agitate throughout the spraying operation. Do not leave the spray liquid in the sprayer for long periods (such as during meal breaks or overnight).

Spray tank clean out

Thoroughly wash out sprayer according to manufacturers’ guidelines and dispose of washings and clean containers according to DEFRA Code of Practice and local Water Authority guidelines.

In case of emergency

For assistance on transport, storage or handling incidents, contact DuPont Emergency Response Centre, telephone: 0870 820 0418.

For medical emergencies, contact the National Poisons Information Service, telephone: 111 (England and Wales) and 08454 24 24 24 (Scotland).

PLEASE REFER TO PRODUCT LABEL FOR FULL CONDITIONS OF APPROVAL AND SAFE USE.
THIS IS AN ANNUAL PUBLICATION AND SUPERSEDES ALL PREVIOUS VERSIONS
For in-season, up-to-date information please check our website at www.cropprotection.dupont.co.uk
1. All products
Du Pont (U.K.) Limited supports the physical compatibility and crop safety of all tank-mixes listed providing individual products are used according to their label. Do not use any tank-mix if the mixture cannot be applied within the recommendations for individual products or if specific tank-mix restrictions apply. Maintain constant agitation at all times.

2. Compatibility tables
The 20 separate compatibility tables covering the following products have specific, similar formats:-

1. Absolute®
2. Aylora®, Treoris®
3. Coragen®
4. Credo® / Zimbrail®
5. Curzate® M WG
6. Debut®
7. Excalibur®
8. Explicit® , Rumo®, Steward®
9. Frelizon®, Cypher®, Sebrant®
10. Furlong®
11. Galileo®, Flanker®, Oranis®
12. Lexus® MILLENIUM
13. Lexus® SX, Bullion®, Ductis™ SX, Exceed® SX and Staka™ SX
14. Option®
15. Refinzar®
16. Safari Lite™
17. Spring Sulfonylurea Herbicides – Alias SX, Ally® Max SX, Answer® SX, Avro® SX, BiPlay® SX, Chimera® SX, Cleancrop Mondial, Concert® SX, Finish® SX, Gropper SX, Harmony® M SX, Inka® SX, Jubilee® SX, Lorate®, Presite® SX, Ratio® SX, Refine® Max SX, Simba® SX, Traton® SX
18. Talius®, Justice®
19. Vareon®
20. Vertisan®, Intellis®

Each table is crop or timing specific and providing the products are legally registered in the UK for use on the noted crop then the DuPont product to which the table relates can be tank-mixed with one product in any column incorporating mixes up to the maximum of a single row of ticks.

If the product you wish to use in a tank-mix is not listed then please contact the Technical Helpline for specific advice on (01438) 734450 or enquiry.agproducts@dupont.com
Cautionary notes

- Do not apply a listed DuPont SU herbicide in tank-mix or sequence with any ALS-inhibiting products unless stated on the label. Restrictions on any following crops should be observed.
- Do not allow a DuPont SU to come into direct contact with undiluted concentrate of any other product.
- No tank-mixes are supported on durum wheat, rye or triticale, unless stated.
- Do NOT tank-mix Cerone or Terpal, unless stated, with DuPont SU herbicides. Allow an interval of 7 days between treatments (10 days if crop is under stress and not actively growing).
- Do not tank-mix any DuPont SU herbicide with the following non-ALS products: chlorpyrifos, (diclofop-methyl + fenoxaprop-p-ethyl) or dimethoate.
- Do not tank-mix Credo® or Zimbrain® with Corniche / Tigress Ultra or any product containing carfentrazone ethyl on crop-safety grounds.

For information on compatibilities with other plant growth regulators that are not listed then please contact the specific manufacturer.

Other general notes

Adjuvants: Consult relevant manufacturers’ product label or as agreed with Du Pont (U.K.) Limited.

Manganese: Chelated formulations are preferred for tank-mixing. Check labels of all other products prior to tank-mixing. Do not tank-mix manganese with ‘hormone’ herbicides eg MCPA, mecoprop-p, dicamba, dichlorprop-p, etc.

Not all ALS-inhibiting products are made using SX technology and so carry different wash out restrictions. Check the label restrictions of all products used and follow the most rigorous wash out procedure recommended. DuPont advocate good sprayer hygiene at all times and still recommend All Clear® Extra for ensuring sprayers, especially nozzles, the sump and pipework, are clean of ALL chemical residues.

It is also essential to refer to the labels of any partner products for specific advice on cultivations prior to drilling the next crop as these may be more limiting and so should be adhered to.
Before tank-mixing any flutriafol-containing product or any propiconazole-containing product with any DuPont SU herbicide, please consult DuPont. No specific interval is required between a listed DuPont SU and the fungicides above but full wash out procedures with All Clear® Extra should be observed.

When tank-mixing a DuPont SU herbicide with clodinafop-propargyl or a pinoxaden-based product for Black-grass control it is essential to use the full recommended rate of the graminicide.

If considering using reduced rates of clodinafop-propargyl or a pinoxaden-based product or tralkoxydim, do not tank-mix. Sequences only may be used – observing the following intervals:

- If the DuPont SU product is used first, allow the following days interval before the graminicide application: clodinafop, clodinafop + pinoxaden or tralkoxydim 14 days; pinoxaden 21 days.
- If the graminicide is used first, allow a 7-day interval before the DuPont SU application.

For tank-mixes and sequences of DuPont SU herbicides with fenoxaprop-p-ethyl for wild oat control please consult Bayer Crop Science literature.

- For advice on using DuPont products on red wheat, please contact your contract agent for information.
- In any supported tank-mix, add the listed DuPont SU to the tank first and ensure it is fully dispersed before adding the other product(s).
- Do not allow a DuPont SU to come into direct contact with undiluted concentrate of any other product.
- Maintain agitation at all times.
When applying any pesticide, the mixing sequence is crucial to ensure that each pesticide is properly dissolved within the spray water. This will enable the pesticide to work effectively and avoid blockages within the sprayer.

Common practice is always to apply a solid first to the sprayer tank and allow it to fully dissolve within the water before adding any other products. When adding liquid pesticides to a spray tank the mixing order is usually determined by the formulation type and the amount of oil based or emulsifiable surfactants that it contains.

**Generally the mixing order is:**
Solids – either granules or water soluble bags

followed by:
Emulsifiable concentrates (EC)

then: Suspension concentrates (SC)
then: Oil in water emulsions (EW)
then: Oily dispersion (OD) products

Adjuvants are added usually in quantities proportional to the water volume applied per hectare. Some adjuvants, which are water conditioners recommend that they are added to the spray tank water before any pesticides, so enabling them to work effectively by adjusting the water pH or quality e.g. hardness etc. Otherwise most adjuvants are usually added to the spray tank after the pesticides. However check adjuvant labels for specific advice.

In general, keep tank-mix partners to the minimum and it is advisable that no more than 5 individual products (which in turn may comprise of several active ingredients) are present within a spray tank-mixture. The combination of the surfactants and formulants incorporated within each product has the potential to increase crop damage or affect the efficacy of the individual components of the mix.
Trace elements can also have the potential to disrupt a tank-mixture and as they come in many forms and compositions it is always best to consult with the manufacturer to determine the suitability of including it in the tank-mix. If no information is available, some manufacturers may recommend that growers perform a rudimentary test in a bucket to check the physical compatibility of the mix. If this approach is taken then this should be done with the appropriate safety measures. It should also be noted that this does not give any indication of the biological and/or potential phytotoxicity affects that may or may not occur to the crop.

If trace elements are being applied to a crop in a curative capacity, it is usually recommended that they are applied as a separate treatment so remedying the issue and reducing the overall stress on the crop.

The effect of stress whether visible or non-visible i.e sub clinical must be considered. Discernible stress factors such as drought, water logging, high temperatures and trace element deficiencies are commonly considered. However, diurnal temperature fluctuations, removal of the waxy layer as a consequence of hail, wind blow, frost etc. will affect the crops ability to tolerate a chemical application.

Water volume is also a significant consideration in a tank-mixture. Some products are subject to reduced water restrictions, preventing the reduction of the spray application below a specified water volume. Reducing the water volume disproportionately to the dose rate means that the overall spray tank-mixture becomes more concentrated. This can be problematic for the safety of the spray operator and the crop to which it is applied. There is also the potential that not all of the tank-mix partners may be adequately dissolved i.e. sediment out in the spray tank. It is always advised that growers and spray operators read the product labels thoroughly in case there are any restrictions.

**Mixing guidance for DuPont Sulfonylureas**

Before using DuPont sulfonylureas make sure that the spraying equipment is clean and free from contamination from other pesticides. Quarter fill the tank with clean water, start the agitation and add the required quantity of granules directly into the tank without prior creaming. In any tank-mix involving DuPont sulfonylureas they should be added to the spray tank first. Any recommended tank-mix partner can be added as soon as the granules have been dissolved, which normally takes only a few minutes at normal water temperatures. If for any reason, adding the granules at the top of the tank is impractical and the sprayer is fitted with an induction system, the following procedure may be followed. It must be used only if the induction bowl can be filled with water.
1. Half fill the induction bowl with clean water.
2. Pour granules into the induction bowl.
3. Turn on the venture and suck the contents of the induction bowl into the spray tank, at the same time rinsing the bowl.
4. Repeat the procedure of half filling the bowl with water and sucking out until no trace of the product remains on the mesh; filter; drain hole or sides of the induction bowl.
5. Ensure all the contents are sucked out and the bowl is thoroughly rinsed before adding any tank-mix partner.

Continue agitation while topping up the tank with water and whilst spraying. Apply the prepared tank-mix solution the same day as mixing. When DuPont sulfonylurea herbicides are used in tank-mix with other products, it must be added to the spray tank first and fully dispersed before the other product is added.

**Do not allow sulfonylurea granules to come into contact with undiluted concentrate of another product.**

- Safari Lite™ is contained within a water soluble bag.
- Safari Lite™ mixes easily with water, but the following mixing procedure should be followed:
  - Quarter-fill the spray tank with clean water and start agitation.
  - In any tank-mix add Safari Lite™ wsb to the spray tank first.
  - Tear open the foil envelope and add the water-soluble bag directly to the spray tank or via an induction bowl when fitted and complete filling.
  - Ensure the Safari Lite™ wsb is fully dispersed in the spray tank before adding another product.
  - Maintain agitation until spraying is completed.
  - Apply the prepared tank-mix solution the same day as mixing.
Vertisan®/ Intellis® in spring barley

Providing the products are legally registered in the UK for use in spring barley, Vertisan®/ Intellis® can be tank-mixed with one product in any column incorporating mixes up to the maximum of a single row of ticks. If a box is left blank then a product from that column group cannot be included in the tank-mix. For example, mix 1 would only allow Vertisan® + Bravo® + Cortez + Talius® + Ally® Max SX.

Du Pont (U.K.) Limited supports the physical compatibility and crop safety of all tank-mixes listed providing individual products are used according to their label. Do not use any tank-mix if the mixture cannot be applied within the recommendations for individual products or if specific tank-mix restrictions apply. Maintain constant agitation at all times.

Please ensure you read the ‘Compatibility Notes’ section for further advice.
**Vertisan®/Intellis® plus:**

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<th>Mildew Fungicide</th>
<th>Strobilurin Fungicide</th>
<th>Other Fungicides</th>
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<th>BLW Herbicide</th>
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**Key to comments**

$ For Ally® Max SX please read across to Alias SX, Answer® SX, Avro® SX, Biplay® SX, Chimera® SX, Cleancrop Mondial, Finish® SX, Gropper SX, Inka® SX, Jubilee® SX, Lorate®, Presite® SX, Ratio® SX, Refine® Max SX, Simba® SX and Traton® SX.

* Restricted rates – 3C can be applied up to 1 l/ha in mix with 0.2 l/ha Moddus.

% For Harmony® M SX please read across to Concert® SX.

USE PLANT PROTECTION PRODUCTS SAFELY. ALWAYS READ THE LABEL AND PRODUCT INFORMATION BEFORE USE. ALL MANUFACTURERS TRADEMARKS ARE DULY ACKNOWLEDGED.
Vertisan®/Intellis® in winter barley

Providing the products are legally registered in the UK for use in winter barley, Vertisan®/Intellis® can be tank-mixed with one product in any column incorporating mixes up to the maximum of a single row of ticks. If a box is left blank then a product from that column group cannot be included in the tank-mix. For example, mix 1 would only allow Vertisan® + Bravo® + Cortez + Talius® + Ally® Max SX.

Du Pont (U.K.) Limited supports the physical compatibility and crop safety of all tank-mixes listed providing individual products are used according to their label. Do not use any tank-mix if the mixture cannot be applied within the recommendations for individual products or if specific tank-mix restrictions apply. Maintain constant agitation at all times.

Please ensure you read the ‘Compatibility Notes’ section for further advice.
### Vertisan®/Intellis® plus:

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**Key to comments**

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* Restricted rates – 3C can be applied up to 1 l/ha in mix with 0.2 l/ha Moddus or 0.75 l/ha 3C + 0.25-0.5 l/ha Canopy.

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ALL MANUFACTURERS TRADEMARKS ARE DUNLY ACKNOWLEDGED.
Vertisan®/ Intellis® in winter wheat

Providing the products are legally registered in the UK for use in winter wheat, Vertisan®/ Intellis® can be tank-mixed with one product in any column incorporating mixes up to the maximum of a single row of ticks. If a box is left blank then a product from that column group cannot be included in the tank-mix. For example, mix 1 would only allow Vertisan® + Bravo® + Cortez + Talius® + Ally® Max SX.

Du Pont (U.K.) Limited supports the physical compatibility and crop safety of all tank-mixes listed providing individual products are used according to their label. Do not use any tank-mix if the mixture cannot be applied within the recommendations for individual products or if specific tank-mix restrictions apply. Maintain constant agitation at all times.

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Vertisan®/Intellis® plus:

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* Restricted rates – 3C can be applied up to 1 l/ha in mix with 0.2 l/ha Moddus or 0.75 l/ha 3C + 0.25-0.5 l/ha Canopy. Vertisan® cannot be mixed with Atlantis.

% For Harmony® M SX please read across to Concert® SX.

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