DuPont Crop Protection Products

UK Product Guide 2017

The Voluntary Initiative
Promoting responsible pesticide 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
Important changes since last printing
No changes.

Formulation
An emulsifiable concentrate containing 320 g/l prochloraz, 40 g/l proquinazid and 160 g/l tebuconazole.

Recommended crop(s)
Winter wheat, spring wheat, winter and spring barley, winter and spring oats.

Target diseases
Wheat: Eyespot, powdery mildew, yellow and brown rusts, septoria leaf blotch (moderate control), glume blotch (moderate control), ear disease complex* (reduction only).
Barley: *Rhynchosporium* (moderate control), net blotch (moderate control), brown rust, yellow rust, powdery mildew, eyespot.
Oats: Crown rust (qualified minor use recommendation), powdery mildew.

* The ear disease complex refers to *Fusarium*, *Alternaria* and *Cladosporium*.

Use rate
Cereals: 1.25/ha.

Water volume and spray quality
Apply in a minimum of 200 l/ha as a MEDIUM spray quality.

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. Avoid spraying within 5m of the field boundary to reduce effects on non-target insects or other arthropods.

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

Limit to number of applications and dose rate
Wheat, barley and oats: 2 applications per crop.
Maximum individual dose: 1.25 l/ha.

Harvest interval
Wheat (winter and spring) – GS65 (before full flowering).
Barley and Oats (winter and spring) – GS49 (before beginning of heading).

Pack
5 litre pack.

Area treated per pack
4 hectares.

MAPP No. 14376
Important information and restrictions

**IMPORTANT INFORMATION**

FOR USE ONLY AS A PROFESSIONAL FUNGICIDE.

<table>
<thead>
<tr>
<th>Crops</th>
<th>Maximum individual dose (l/ha)</th>
<th>Maximum number of treatments (per crop)</th>
<th>Latest time of application</th>
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<tbody>
<tr>
<td>Wheat</td>
<td>1.25</td>
<td>Two</td>
<td>GS 65 (before full flowering)</td>
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<tr>
<td>Barley, Oats</td>
<td>1.25</td>
<td>Two</td>
<td>GS 49 (before beginning heading)</td>
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**Other specific restrictions:**
Rates shall not exceed 450g prochloraz/hectare per application for outdoor uses.

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**

Do not apply to crops under stress.

Do not apply during frosty weather.

**Following crop restrictions**

There are no following crop restrictions after using Vareon®.
CEREALS – General information

Vareon® contains prochloraz, tebuconazole (DMI fungicides) and proquinazid (a quinazolinone fungicide) with activity on a wide range of diseases.

Vareon® is a unique cereal fungicide which combines the complementary activity of two triazoles with proquinazid, which has been previously been shown to boost the activity of triazoles and offer induced host defence to assist the control of a wide range of diseases in wheat, barley and oats.

Disease control in cereals can be achieved by a routine programme of preventative spray treatments or by regular monitoring of crops and spraying only when diseases are building up.

Recommendations for use
Best results are obtained when applied before significant levels of disease are established in the crop. A further application may be made after 3 weeks. Applications to crops where significant symptoms are present are likely to be less effective.

There is a possibility that some crops, particularly oilseed rape and other brassicas, may suffer adverse effects from Vareon®. Care should be taken to avoid drift onto non-target crops.

Crops/varieties and timing
Vareon® can be used on all winter and spring varieties of wheat and barley.

Vareon® can also be used on oats as a qualified minor use recommendation as the crop safety on oats has not been fully assessed.

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

Apply Vareon® from before (as a protectant treatment) or at the onset of disease up to the latest approved applications timings as listed above. Best results are achieved when applications are applied before disease is established within the crop. A further application can be made after 3 weeks.

Crop safety
Vareon® is safe to use on all commercial varieties of winter wheat, winter barley and spring barley if used as directed.
Rate of use

Apply Vareon® at 1.25 l/ha.

Rates may be subject to adjustment depending on variety, tank-mix partner and disease pressures.

Application

Apply Vareon® in a minimum of 200 l/ha using spraying equipment to give good even coverage of the crop. Apply as a MEDIUM quality spray as defined by BCPC. Low volumes are not advised in dense crops at later growth stages.

There is a possibility that some crops, particularly oilseed rape and other brassicas, may suffer adverse effects from Vareon®. Care should be taken to avoid drift onto non-target crops.

Avoid spraying within 5m of the field boundary to reduce effects on non-target insects or other arthropods.

Weather

Do not apply Vareon® during frosty weather or high temperatures or drought conditions. Applications under such conditions may result in some scorch. Rain occurring within two hours of application may reduce the effectiveness of the treatment.

Diseases controlled

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<tr>
<th>WHEAT</th>
<th>BARLEY</th>
<th>OATS</th>
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<tr>
<td>Septoria leaf blotch – moderate control</td>
<td>Rhynchosporium – moderate control</td>
<td>Crown rust (qualified minor use recommendation)</td>
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<td>Glume blotch – moderate control</td>
<td>Net blotch – moderate control</td>
<td>Powdery mildew</td>
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<td>Yellow rust</td>
<td>Brown rust</td>
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<tr>
<td>Powdery mildew</td>
<td>Yellow rust</td>
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<td>Eyespot</td>
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<td>Ear disease complex* (reduction only)</td>
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</table>

* The ear disease complex refers to *Fusarium*, *Alternaria* and *Cladosporium*. 
**Resistance management**

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 the recommended dose and timing, under normal weather conditions. Development of resistance within a pathogen can be avoided or delayed by alternating or mixing products having a different mode of action. The Fungicide Resistance Action Group has produced guidelines on the management and avoidance of fungicide resistance. Details of these can be obtained from your supplier or DuPont.

Resistance to DMI fungicides has been identified in Septoria leaf blotch (*Mycosphaerella graminicola*), which may seriously affect the performance of some products. For further advice on resistance management, contact your agronomist or specialist advisor and visit The Fungicide Action group (FRAG) website.

**Compatibility**

Refer to compatibility appendix.

**Mixing**

Ensure sprayer is clean before use. Vareon® containers should be shaken well before use. Vareon® mixes easily with water and should be added directly to the spray tank during filling. Half fill the spray tank with clean water. Add the required quantity of Vareon®, add the remained of water and begin agitation. Wash out container and add washings to the spray tank. Continue agitation during filling and when spraying.

On emptying the container, RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling.
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.
DuPont Compatibility Appendix

UK Product Guide 2017

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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®.
5. Curzate® M WG.
6. Debut®.
7. Excalibur®.
8. Explicit®, Rumo®, Steward®.
10. Furlong®.
12. Lexus® MILLENIUM.
13. Lexus® SX, Bullion®, Ductis™ SX, Exceed® SX and Staka™ SX.
14. Option®.
15. Refinzar®.
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®.

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 Zimbrail® 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.
**Vareon® in spring barley**

Providing the products are legally registered in the UK for use in spring barley Vareon® 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 allow Vareon® to be used with Ally® Max SX and Optica.

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.

**Mixes**

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**DuPont SU** | **BLW Herbicide**

| Ally Max SX $ | Optica |
| Harmony M SX % | Starane Hi-Load |

**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.

% 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.**
in spring barley

Vareon®
Vareon® in winter barley

Providing the products are legally registered in the UK for use in winter barley Vareon® 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 allow Vareon® to be used with Ally® Max SX and Optica.

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<tr>
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<th>CTL</th>
<th>QoI Fungicide</th>
<th>Triazole Fungicide</th>
<th>BLW Herbicide</th>
<th>PGR</th>
<th>Trace Element</th>
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<tr>
<td>Ally Max SX $</td>
<td>Bravo</td>
<td>Amistar Pro Flanker Galileo Oranis</td>
<td>Eclipse Cortez</td>
<td>Optica</td>
<td>3C Chlormequat</td>
<td>Omen Mn Mantrac</td>
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<td>Phoenix &amp;</td>
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<td>Starane Hi-Load</td>
<td>Stabilan 750</td>
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* DuPont SU: Ally Max SX $
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.

&  Mixes containing this product require constant agitation.

USE PLANT PROTECTION PRODUCTS SAFELY. ALWAYS READ THE LABEL AND PRODUCT INFORMATION BEFORE USE.
ALL MANUFACTURERS TRADEMARKS ARE DULY ACKNOWLEDGED.
Vareon® in winter oats

Providing the products are legally registered in the UK for use in winter oats, Vareon® 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 allow Vareon® to be used with Ally® Max SX and Starane Hi-Load.

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.

When applying tank-mixes on oat crops, be careful of applications on light soils, dry soils and stressed crops (especially those with low N levels) or soft lush crops. Care should also be taken when using sulfonylurea herbicides in tank-mix with plant growth regulators.

Please ensure you read the ‘Compatibility Notes’ section for further advice.

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Vareon® in winter wheat

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</table>
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.

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

† This mix is not supported with Harmony® M SX.

& The mix involving this product requires constant agitation.

# This four-way mix is only supported with 3C Chlormequat. Other PGRs included in this list must only be applied in a smaller mix up to a maximum of 3 ways.

* Avoid applying to soft lush growth and maintain full rate of graminicide at all times.

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

USE PLANT PROTECTION PRODUCTS SAFELY. ALWAYS READ THE LABEL AND PRODUCT INFORMATION BEFORE USE.
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