

Serpent[®]

A systemic fungicide for use in winter barley, spring barley, oats and rye.

An emulsifiable concentrate containing 150 g/litre (14.6 % w/w) pyraclostrobin and 75 g/litre (7.3 % w/w) fluxapyroxad.

Risk and Safety Information

Warning

Harmful if swallowed.

Harmful if inhaled.

May cause respiratory irritation.

Suspected of damaging the unborn child.

May cause harm to breast-fed children.

May cause damage to organs (Liver, Nasal cavity,

Gastrointestinal tract) through prolonged or repeated exposure.

Very toxic to aquatic life with long lasting effects.

If medical advice is needed, have product container or label at hand.

Use only outdoors or in a well-ventilated area.

Call a POISON CENTRE or doctor/physician if you feel unwell.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste.

To protect aquatic organisms respect an unsprayed buffer zone of 5m to surface water bodies.

Contains propanoic acid, 2-hydroxy-, 2-ethylhexyl ester, (2S)-. May produce an allergic reaction

To avoid risks to human health and the environment, comply with the instructions for use.

PCS No. : 06741



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FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE, as directed below:

Crops	Maximum individual dose	Maximum number of applications	Latest time of application	Aquatic buffer zone distance (metres):
Winter and spring Barley, Oats, Rye	1.5 litres product/ha	2 per crop	Before grain watery ripe stage (GS 71)	5

Other specific restrictions:

A maximum of 2 foliar applications of product(s) containing SDHIs can be applied to any cereal crop.

READ ALL PRECAUTIONS BEFORE USE.

PRECAUTIONS

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling the concentrate and contaminated surfaces.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH HANDS AND EXPOSED SKIN before meals and after work.

VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

Do not contaminate water with the product or its container. (Do not clean application equipment near surface water / Avoid contamination via drains from farmyards and roads).

To protect aquatic organisms respect an unsprayed buffer zone of 5m to surface water bodies.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.

KEEP OUT OF REACH OF CHILDREN.

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.

STORAGE

Store in a suitable pesticide store. Keep dry and protect from frost.

DIRECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

Serpent is a protectant and systemic fungicide for use in winter barley, spring barley, oats and rye.

Serpent can increase and extend green leaf area retention of barley and rye.

Restrictions/Warnings

For professional use only.

For use by tractor mounted/trailed sprayers only.

Extreme care must be taken to avoid drift onto nearby crops.

After spraying, wash out sprayer thoroughly according to manufacturer's guideline and dispose of washings and clean containers according to local authority guidelines.

Disease control

Serpent is a protectant and systemic fungicide for the control of a range of diseases in winter barley, spring barley, oats and rye as summarised below:

	Barley	Oats	Rye
Yellow rust	C	-	C
Brown rust	C	-	C
Crown rust	-	C	-
Net Blotch	C	-	-
Leaf scald (<i>Rhynchosporium secalis</i>)	C	-	C
Ramularia	C	-	-
Powdery mildew (<i>Blumeria graminis</i>)	MC	MC	MC

C = Control

MC = Moderate Control

Serpent can increase and extend green leaf area retention of barley and rye.

Resistance Management

GROUP	7	11	FUNGICIDES
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Serpent should be used in accordance with the instructions for use for the target diseases at the specific growth stages indicated.

Use Serpent as part of an Integrated Crop Management (ICM) strategy incorporating other methods of control.

For further advice on resistance management contact your agronomist or specialist advisor and visit the FRAG-UK website.

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.

Serpent contains pyraclostrobin, a member of the QoI cross resistance group.

Serpent should be used preventatively and should not be relied upon for its curative potential.

You must not apply more than two foliar applications of QoI containing products to any cereal crop.

Strains of barley powdery mildew resistant to QoIs are common in Ireland.

Crop Specific Information

Serpent is a protectant and systemic fungicide for use in winter barley, spring barley, oats and rye.

Time of Application

Apply Serpent at the start of foliar disease attack. A maximum of two applications can be made before grain watery ripe stage in winter barley, spring barley, oats and rye.

Earliest timing for first application: BBCH 25

Earliest timing for second application: BBCH 30

Rate of Application

Apply 1.5 litres of Serpent per hectare in 150 to 300 litres of water per hectare.

Serpent may be applied at 1.5 litres per hectare in 100 litres water per hectare, although efficacy at this reduced volume has not been evaluated. Therefore application at 100 litres water per hectare is at user's risk with regard to biological efficacy.

Following Crops

After treating a cereal crop with Serpent, cabbage, carrot, clover, dwarf French beans, field beans, lettuce, maize, oats, oilseed rape, onions, peas, potatoes, ryegrass, sugar beet, sunflowers, barley and wheat may be sown as the following crop. The effect of Serpent on other following crops has not been assessed.

Mixing and Application

Mixing

Apply as a MEDIUM spray, as defined by BCPC.

Half fill the spray tank with clean water and start the agitation. SHAKE THE CONTAINER WELL before use and pour in the required amount of product. Rinse any empty containers thoroughly and add rinsings to the spray tank. Add the remainder of the water and continue agitation until spraying is completed.

When tank mixes are to be used, each product should be added separately to the spray tank, taking due note of any instructions given as to the order of mixing.

Compatibility

For information on compatibilities, contact your distributor, local BASF representative or the BASF Technical Services Hotline 0044 (0) 845 602 2553 or visit our website www.agricentre.basf.ie

The following does not form part of the product label under S.I. No. 159 of 2012

With many products there is a general risk of resistance developing to the active ingredients. For this reason a change in activity cannot be ruled out. It is generally impossible to predict with certainty how resistance may develop because there are so many crop and use connected ways of influencing this. We therefore have to exclude liability for damage or loss attributable to any such resistance that may develop. To help minimise any loss in activity the BASF recommended rate should in all events be adhered to.

Numerous, particularly regional or regionally attributable, factors can influence the activity of the product. Examples include weather and soil conditions, crop plant varieties, crop rotation, treatment times, application amounts, admixture with other products, appearance of organisms resistant to active ingredients and spraying techniques. Under particular conditions a change in activity or damage to plants cannot be ruled out. The manufacturer or supplier is therefore unable to accept any liability in such circumstances. All goods supplied by us are of high grade and we believe them to be suitable, but as we cannot exercise control over their mixing or use or the weather conditions during and after application, which may affect the performance of the material, all conditions and warranties, statutory or otherwise, as to the quality or fitness

for any purpose of our goods are excluded and no responsibility will be accepted by us for any damage or injury whatsoever arising from their storage, handling, application or use; but nothing should be deemed to exclude or restrict any liability upon us which cannot be excluded or restricted under the provisions of any applicable law.

Additional Product Safety Information

The information on this label is based on the best available information including data from test results.

Safety Data Sheet

To access the Safety Data Sheet for this product scan the QR code or use the weblink below:



agricentre.basf.ie/Serpent-IE/MSDS

Alternatively, contact your supplier.