

Hi-NELSON

A suspension concentrate formulation containing 250 g/L (22.69% w/w) azoxystrobin.
A broad spectrum fungicide for wheat, barley, oats, rye, triticale, oilseed rape.

Contains 250g/L (22.69% w/w) azoxystrobin.

FOR PROFESSIONAL USE ONLY

WARNING

HAZARDOUS TO THE AQUATIC ENVIRONMENT – ACUTE 1
HAZARDOUS TO THE AQUATIC ENVIRONMENT – CHRONIC 1

VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

Keep out of reach of children.

Do not eat, drink or smoke when using this product.

Avoid release to the environment.

Collect spillage.

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

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 AVOID RISKS TO HUMAN HEALTH AND THE ENVIRONMENT, COMPLY WITH THE INSTRUCTIONS FOR USE.



The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.



Batch No: See bottle
Production Date: See bottle
Expiry: 2 years from production date

Scan here for MSDS or visit
www.hockleyagro.co.uk

Authorisation Holder:

Sharda Cropchem Ltd., Dornic Holm, 29th Road,
Bandra (West), Mumbai – 400050, India
Tel : +91-22-66782800

Marketing Company:

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TEL: 0161 209 7400 Email: info@hockleyagro.co.uk

Azoxystrobin 250 g/L
MAPP 19377

FUNGICIDE

5Le



Hockley
Agro UK

PROTECT FROM FROST. SHAKE WELL BEFORE USE

PEEL BACK FOR DIRECTIONS FOR USE LABELLET

Peel here

IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE

Crops	Maximum individual dose: (litres product / ha)	Maximum number of treatments	Minimum spray interval (days)	Latest time of application
Wheat, rye and triticale	1.0 L/ha	Two per crop	14	Before watery ripe stage (GS71)
Barley, oats	1.0 L/ha	Two per crop	14	Before beginning of flowering (GS61)
Winter and spring oilseed rape	1.0 L/ha	Two per crop	21	21 days before harvest
Other specific restrictions: To reduce the risk of resistance developing in target diseases the total number of applications of product containing Qol fungicides made to any cereal crop must not exceed two. When used in the protected situation, other than 'permanent protection with full enclosure' aquatic buffer zones in line with LERAP requirements must be observed. This product must not be applied via hand-held equipment. Non-returnable containers must not be re-used for any purpose.				
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.				

SAFETY PRECAUTIONS

Operator Protection

WASH SPLASHES from skin or eyes immediately.
DO NOT BREATHE SPRAY.
WASH HANDS AND EXPOSED SKIN before meals and after work.
WHEN USING DO NOT EAT, DRINK OR SMOKE.
IF YOU FEEL UNWELL, seek medical advice (show label where possible).

Environmental Protection

AVOID DRIFT onto non-target plants.
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 to surface water bodies in line with LERAP requirements.
DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5 m of the top of the bank of a static or flowing water body, unless a Local Environment Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1 m of the top of a ditch which is dry at the time of application.
This product qualifies for inclusion within the Local Environment Risk Assessment for Pesticides (LERAP) scheme. Before each spraying operation from a horizontal boom sprayer, either a LERAP must be carried out in accordance with CRD's published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years.

Storage and Disposal

KEEP IN ORIGINAL CONTAINER tightly closed in a safe place.
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.
KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.
KEEP OUT OF REACH OF CHILDREN.
DO NOT RE-USE CONTAINER for any purpose.
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.

Hi-NELSON is a systemic translaminar and protectant strobilurin fungicide and belongs to the Qol group of fungicides (FRAC mode of action code 11). It inhibits fungal respiration and, to protect against the development of resistance, should always be used in mixtures or programmes with other fungicides with different modes of action. In addition to disease control, it can maintain green leaf area in crops longer than untreated crops and this can also lead to significant yield benefits. Applied as a preventative treatment when predictive tools indicate the likelihood of disease development or at the first sign of disease in the crop, it gives 4 – 6 weeks protection against susceptible diseases when applied to cereals at the stem elongation stage. Persistence may be even longer when applied to the flag leaf or the ear.
Always inspect crops to assess disease development immediately before spraying. Best results will be achieved from applications

made as a protectant treatment following a disease risk assessment or the use of appropriate decision support systems. For optimum disease control apply before infection or as soon as disease is first seen in the crop.

RESTRICTION

On cereal crops, Hi-NELSON 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 treat crops under stress as this may give less reliable results.

Possible causes of crop stress include poor soil or cultural conditions, adverse climatic conditions, water-logging or drought, pest or disease attack and nutrient deficiency. Apply under good growing conditions with adequate soil moisture.

Consult processor before treating crops destined for processing. Certain apple varieties are highly sensitive to Hi-NELSON. As a precaution Hi-NELSON should not be applied when there is a risk of spray drift onto neighbouring apple crops. Spray equipment used to apply Hi-NELSON to other crops should not be used to treat apples.

CROP SPECIFIC INFORMATION

1. Winter and spring oilseed rape:

Two applications of 1.0 L/ha are permitted in oilseed rape between GS60-69 with the last application at least 21 days before harvest. A second treatment may be required if disease pressure remains high. Application should be made using a MEDIUM quality spray as defined by BCPC in a minimum of 200 L/ha. Where crops are dense the water volume should be increased to 250-300 L/ha. Hi-NELSON will control the following diseases in oilseed rape crops:

Crops	Disease		Level of control expected
Oilseed rape (winter or spring)	Dark leaf and pod spot	<i>Alternaria</i> spp.	Control – apply as a protectant spray when first 10 pods exceed 4 cms, before they become knobbly and not later than the time the first spots are seen on the pods

	Sclerotinia stem rot	<i>Sclerotinia sclerotiorum</i>	Moderate control. Apply as a protectant spray during flowering. Optimum timing is early to mid flowering (GS60-65)
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2. Winter and spring wheat, winter and spring barley:

Two applications of 1.0 L/ha are permitted in wheat and barley. Application in wheat must be between GS30-69 and application in barley must be between GS30-59. For optimum activity against ear diseases application should be made at ear emergence. When used to control the listed foliar disease in wheat and barley, an application of Hi-NELSON at the first or second node stage of the crop may also reduce the severity of Take-all (*Gaeumannomyces graminis* var. *Trititici*) infection.

Hi-NELSON will control the following diseases in wheat and barley crops:

Crop	Disease		Level of control expected
Wheat (Winter or Spring)	Glume blotch	<i>Septoria nodorum</i>	Control
	Yellow rust	<i>Puccinia striiformis</i>	Control
	Brown rust	<i>Puccinia recondita</i>	Control
	Ear diseases	<i>Cladosporium</i> spp., <i>Alternaria</i> spp.	Control if applied at ear emergence
Barley (Winter or Spring)	Net blotch	<i>Pyrenophora teres</i>	Control
	Brown rust	<i>Puccinia hordei</i>	Control
	Leaf blotch	<i>Rhynchosporium secalis</i>	Reduction

3. Winter and spring oats, rye and triticale:

When used to control the listed foliar diseases in rye and triticale, an application of Hi-NELSON at the first and second node stage of the crop may also reduce the severity of Take-all infection. Two applications of 1.0 L/ha are permitted in oats, rye and triticale. Application in rye and triticale must be between GS30-69 and application in oats must be between GS30-59. Hi-NELSON will control the following diseases in oats, rye and triticale crops:

Crop	Disease		Level of control expected
Oats (winter or spring)	Crown Rust	<i>Puccinia coronata</i>	Control
Rye , triticale	Brown rust	<i>Puccinia recondita</i>	Control
	Leaf blotch	<i>Rhynchosporium secalis</i>	Reduction

MIXING AND SPRAYING

Users should always inspect crops to assess disease development immediately before spraying.

Before spraying it is important to check all hoses, filters and nozzles, and to ensure that the sprayer is clean and correctly set to give an even application at the correct volume. Half fill the spray tank with clean water. Begin agitation and add the required quantity of Hi-NELSON directly to the tank. Add the remainder of the water and agitate the mixture thoroughly before and during spraying. When using tank-mixtures, check whether there is an order of mixing in the compatibility section below.

APPLICATION

For cereals and oilseed rape, application should be made using a MEDIUM quality spray as defined by BCPC in a minimum of 200 L/ha and at pressure of at least 2 bar. Where crops are dense the water volume should be increased to improve coverage. Do not leave the spray liquid in the sprayer for long periods (such as during meal breaks or overnight).

RESISTANCE MANAGEMENT

Hi-NELSON contains azoxystrobin a member of the QoI cross resistance group. Hi-NELSON should be used preventatively and should not be relied on for its curative potential. Disease control may be reduced if strains of pathogens less sensitive to azoxystrobin develop.

To avoid the likelihood of resistance developing, applications of

Hi-NELSON should be made with due regard to the current FRAC and FRAG-UK guidelines for QoI compounds.

Good resistance management techniques should be adopted when using Hi-NELSON. Strategies should include mixtures or sequences with other fungicides with different modes of action where appropriate and nonchemical methods such as selection of varieties with inherent resistance to some diseases. Note the limits on the number of applications of fungicides with the QoI mode of action in nominated crops.

- All cereal crops: You must not apply more than two foliar applications of QoI-containing products to any cereal crop. On cereal crops Hi-NELSON 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.

When applying these fungicides, use doses that will give good control.

Strains of barley powdery mildew that are resistant to QoI fungicides are common in the UK and there is already a significant risk of widespread resistance to QoI fungicides in some *Septoria tritici* populations. The development of resistance in other pathogens cannot be ruled out and, where this occurs, reduced control is inevitable. Consult the FRAG-UK guidelines on QoI fungicides.

COMPATIBILITY

Information on a range of compatible mixtures is given in the below tables. For more details, contact your supplier.

Fungicides:

Active ingredient	MAPP Number of product
azoxystrobin + cyproconazole	MAPP 11518
chlorothalonil	MAPP 14548
chlorothalonil + cyproconazole	MAPP 08467
chlorothalonil + cyproconazole + propiconazole	MAPP 13251
cyprodinil	MAPP 14847
epoxiconazole ¹	MAPP 12057
fenpropimorph	MAPP 00578
fluoxastrobin + prothioconazole	MAPP 12276
flutriafol	MAPP 12975

metconazole	MAPP 15337
prochloraz + proquinazid + tebuconazole	MAPP 14376
proquinazid	MAPP 12835, 12752
prothioconazole	MAPP 12084
prothioconazole + spiroxamine	MAPP 12264
quinoxifen	MAPP 08881, 08279

¹ When mixing Hi-NELSON with epoxiconazole + fenpropidin, mix in this order and do not use full rates of epoxiconazole or fenpropidin.

Herbicides:

Active ingredient	MAPP Number of product
clodinafop-propargyl	MAPP 15123
florasulam	MAPP 09819
florasulam + fluroxypyr	MAPP 10921
MCPA	MAPP 14814
mecoprop-P	MAPP 13971, 14373
metsulfuron-methyl + thifensulfuron-methyl	MAPP 12258
metsulfuron-methyl + tribenuron-methyl ²	MAPP 14835
pinoxaden + adjuvant	MAPP 12521 – A0522
tribenuron-methyl	MAPP 15189

² When mixing Hi-NELSON with metsulfuron-methyl + tribenuron-methyl +/- fluroxypyr, add Hi-NELSON to the tank last.

Insecticides:

Active ingredient	MAPP Number of product
lambda-cyhalothrin ³	MAPP 12629
tau-fluvalinate	MAPP 10612

³ Add Hi-NELSON to the tank first.

Plant Growth Regulators:

Active ingredient	MAPP Number of product
chlormequat	MAPP 16690
trinexapac-ethyl	MAPP 15151

Trace elements:

Hi-NELSON is also compatible with a number of trace element products which should be added to the spray tank last, while agitating and should be sprayed immediately. For details of compatible mixtures, contact your supplier.

CLEANING OF APPLICATION EQUIPMENT

To avoid damage to other crops, the application equipment must be thoroughly decontaminated after application.

- Immediately after application, drain the tank completely and wash down with clean water. Rinse out the tank and flush through the booms and hoses.
- Half-fill the tank with clean water and add the recommended dose of detergent cleaner. Agitate and then flush the boom and hoses with the cleaning solution. Top up the tank so that it is completely full and leave to stand for 15 minutes with the agitation running. Flush the booms and hoses again and drain completely.
- Remove the nozzles and filters and clean separately in a solution of detergent cleaner in 10 litres of water.
- Rinse the tank again with clean water, using at least 10% of the tank volume and dispose of the washings safely. For disposal of washings in the UK, follow the DEFRA 'Code of Practice for Using Plant Protection Products' (2006).

COMPANY ADVISORY INFORMATION

The following does not form part of the product label under the UK Plant Protection Products Regulations but provides additional Company advice on the product use.

CONDITIONS OF SUPPLY

Our products are of the highest quality and suitable for use. As we are unable to exercise control over the storage, handling, mixing and application of products, or over environmental conditions which may affect their performance, all conditions and warranties, statutory or otherwise as to the quality or fitness for purpose of our products are excluded. No responsibility will be accepted by us or re-sellers for any failure in performance, damage or injury whatsoever arising from their storage, handling, application or use. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in the use of such goods.



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Azoxystrobin 250 g/L
MAPP 19377

FUNGICIDE

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