CAUTION

KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Topnotch®

Fungicide

ACTIVE CONSTITUENTS:

200 g/L AZOXYSTROBIN
200 g/L PROPICONAZOLE

GROUP 3 | 11 FUNGICIDE

Crops: Barley, Oats, Wheat

Diseases: Crown Rust, Eyespot, Leaf Rust, Net Blotch, Physiological Leaf Spot (abiotic), Powdery Mildew, Red Leather Leaf, Scald, Septoria Leaf Blotch, Septoria Nodorum Blotch, Septoria Tritici Blotch, Stem Rust, Stripe Rust, Yellow Spot

Formulation type
Suspenso-emulsion **SE**

ADAMA

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CONTENTS: 1 - 1000 L

DIRECTIONS FOR USE
RESTRAINTS
DO NOT apply more than 2 applications of product (or any other strobilurin or Group 3 fungicide) in any one season.
DO NOT exceed a combined total of 800 mL/ha of TOPNOTCH® in any one season.

SPRAY DRIFT RESTRAINTS
Specific definitions for terms used in this section of the label can be found at apvma.gov.au/spraydrift
DO NOT allow bystanders to come into contact with the spray cloud.
DO NOT apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. The buffer zones in the relevant buffer zone table below provide guidance but may not be sufficient in all situations. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.
DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.
DO NOT apply if there are hazardous surface temperature inversion conditions present at the application site during the time of application. Surface temperature inversion conditions exist most evenings one to two hours before sunset and persist until one to two hours after sunrise.
DO NOT apply by a boom sprayer or aircraft unless the following requirements are met:
- Spray droplets not smaller than a MEDIUM spray droplet size category.

Buffer zones for aerial application
- For maximum release heights above the target canopy of 3 m or 25% of wingspan or 25% of rotor diameter whichever is the greatest, minimum distances between the application site and downwind sensitive areas (see 'Buffer zones' section of the following table titled 'Buffer zones for aircraft') are observed.

Buffer zones for aircraft

Application rate	Mandatory downwind buffer zone
	Natural aquatic areas
Up to maximum label rate	50 m

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CROP	DISEASE	RATE PER HECTARE	CRITICAL COMMENTS
Barley	Eyespot (*Oculimacula yallundae*) Suppression only	600 mL	Apply TOPNOTCH® when conditions favour disease development and prior to establishment of disease in the crop. Apply from mid-tillering (GS25) to flag leaf emergence (GS39). For best results target applications at GS30-32. Application prior to canopy closure may improve coverage, enhance efficacy and reduce lodging from eyespot infections. Applications beyond flag leaf emergence (GS39) may not provide any yield benefit from eyespot control. DO NOT apply later than GS59.
	Leaf Rust (*Puccinia hordeii*) Net Blotch: Net Form (*Pyrenophora teres* f.sp. *teres*) Spot Form (*Pyrenophora teres* f.sp. *maculata*) Scald (*Rhynchosporium secalis*)	300 to 600 mL	Apply TOPNOTCH® between GS30 to GS59 when conditions favour infection and prior to the development of high levels of disease in the crop. After the first application, regularly monitor the crop from 3-4 weeks after treatment for signs of re-infection. Apply an additional spray where required. Use the higher rate when disease pressure is high. Application of TOPNOTCH® with Hasten† can improve control of some diseases. Refer to the Use of Adjuvant in Cereals section for more information.
	Powdery Mildew (*Blumeria graminis*)	200 to 600 mL	Apply at the first sign of the disease during the tillering stage (Z21-22). Regularly monitor the crop 3-4 weeks post- application. Apply a second spray if infection pressure persists prior. DO NOT apply later than Z59 as yield responses are unlikely.
	Physiological leaf spot (abiotic)	600 mL	Physiological leaf spotting (PLS) can be caused by a combination of susceptible varieties and environmental conditions conducive to symptom development e.g. periods of high light intensity during susceptible growth stages. Applications of TOPNOTCH® for disease control between GS32 and GS59 can reduce the severity of PLS symptom development on the upper canopy leaves, depending on the timing of application and conditions conducive to symptom development. Applications should be timed to ensure the top four leaves are treated prior to PLS symptoms developing. Refer to the Physiological leaf spot section in the General Instructions for more information prior to using TOPNOTCH®. Application of TOPNOTCH® with Hasten† can improve control of some diseases. Refer to the Use of Adjuvant in Cereals section for more information.
Oats	Crown Rust (*Puccinia coronata f.sp. avenae*)	300 to 600 mL	Apply TOPNOTCH® from the tillering stage (GS21-22) to GS59 when conditions favour infection and prior to the development of high levels of disease in the canopy. Use the higher rate when high disease pressure is expected. After application, continue to monitor crops and apply additional fungicide sprays where required.
	Red leather leaf (*Spermospora avenae*) Suppression only	300 to 400 mL	
	Septoria Leaf Blotch (*Parastagonospora avenaria f.sp. avenaria*) Stem Rust (*Puccinia graminis f. sp. avenae*)	200 to 400 mL	
Wheat	Eyespot (*Oculimacula yallundae*) Suppression only	600 mL	Apply TOPNOTCH® when conditions favour disease development and prior to establishment of disease in the crop. Apply from mid-tillering (GS25) to flag leaf emergence (GS39). For best results target applications at GS30-32. Application prior to canopy closure may improve coverage, enhance efficacy and reduce lodging from eyespot infections. Applications beyond flag leaf emergence (GS39) may not provide any yield benefit from eyespot control.
	Leaf Rust (*Puccinia recondita* f.sp. *triticina*) Septoria Nodorum Blotch (*Phaeosphaeria nodorum*)	200 to 600 mL	Apply up to two applications of TOPNOTCH® between Z30 to Z59 when conditions favour infection and prior to the development of high levels of disease in the crop. After the first application, regularly monitor the crop from 3-4 weeks after treatment for signs of re-infection. Apply additional fungicide sprays where required. Use the higher rate when disease pressure is high and/or when targeting stem rust. Application of TOPNOTCH® with Hasten† can improve control of some diseases. Refer to the *Use of Adjuvant in Cereals* section for more information.
	Septoria Tritici Blotch (*Mycosphaerella graminicola*) Stripe Rust (*Puccinia striiformis*) Yellow Spot (*Pyrenophora tritici-repentis*)	300 to 600 mL	
	Stem Rust (*Puccinia graminis*)	600 mL	
	Powdery Mildew (*Blumeria graminis*)	200 to 600 mL	Apply at the first sign of the disease during the tillering stage (Z21-22). Regularly monitor the crop 3-4 weeks post- application. Apply a second spray if infection pressure persists. Use the higher rate when high disease pressure is expected.

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION

WITHHOLDING PERIODS

Harvest: DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION.
Grazing: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 21 DAYS AFTER APPLICATION.

TRADE ADVICE:
MRLs or import tolerances for azoxystrobin and propiconazole may not be established in all markets. For livestock and produce grown for export, please check with Adama Australia for current information.

GENERAL INSTRUCTIONS
Check the crop regularly for any symptoms of disease infection. The objective of spraying is to keep the upper 2-3 leaves, ear and stem green and functioning through grain filling. Economic responses may not be gained by spraying crops past flowering stage. Thorough coverage of the crop is necessary for best results.

Physiological leaf spot
Physiological leaf spotting (PLS) is an abiotic disorder that occurs most frequently in barley. The development of PLS is based on genetic (varietal susceptibility) factors and environmental stresses on the crop and mostly affects the upper side of the top four leaves. TOPNOTCH® does not reduce leaf symptoms from other abiotic disorders e.g. nutritional deficiencies or toxicities, frost damage, waterlogging, drought; effects from the application of other products e.g. herbicides, foliar fertilisers, adjuvants; or damage caused by pest infestations or diseases not listed on the label.
TOPNOTCH® should be used primarily for the management of fungal diseases as listed in the Directions for Use table. Reductions in the severity of PLS symptoms on treated leaves can occur when applying TOPNOTCH® at critical growth stages for disease control in barley, particularly between GS32 and GS59, prior to PLS symptom appearance. Applications of TOPNOTCH® specifically targeting reductions in PLS severity and in the absence of significant disease pressure are not recommended as this may increase the selection pressure for fungicide resistance.

Mixing
Add the required quantity of TOPNOTCH® Fungicide to water in the spray vat while stirring or with agitators in motion. Rinse the empty container with water and add rinsings to spray tank.

APPLICATION
Ground Application: Apply in a water volume of between 50 and 100 L/ha using a medium quality spray. Use the higher water volume in crops with heavier canopies.
Aerial Application: Apply with suitable aircraft, set up and operated to apply fungicides to cereal crops in a water volume of between 20 and 30 L/ha using a medium quality spray. Use the higher water volume in crops with heavier canopies. Aircraft should fly as low as possible under the prevailing conditions to minimise drift.

Use of Adjuvant
The use of an adjuvant can improve the efficacy of TOPNOTCH® Fungicide in cereals. The following table summarises where the addition of adjuvant improved performance in field trials.

<table>
<tr><th rowspan="2">Cereal type and disease</th><th colspan="2">Addition of adjuvant (% v/v)*</th></tr>
<tr><th>TOPNOTCH ≤300 mL/ha</th><th>TOPNOTCH >300 mL/ha</th></tr>
<tr><td colspan="3">Barley</td></tr>
<tr><td>Leaf rust</td><td rowspan="3">Hasten† 0.5-1%</td><td rowspan="4">Not tested</td></tr>
<tr><td>Spot form of net blotch</td></tr>
<tr><td>Scald</td></tr>
<tr><td>Eyespot</td><td rowspan="4">Not tested</td></tr>
<tr><td>Net form of net blotch</td><td></td></tr>
<tr><td>Powdery mildew</td><td></td></tr>
<tr><td>Physiological leaf spotting</td><td>Hasten† 1%</td></tr>
<tr><td colspan="3">Wheat</td></tr>
<tr><td>Septoria Tritici Blotch</td><td rowspan="2">Hasten† 0.5-1%
or Biopest† 1%</td><td rowspan="7">Not tested</td></tr>
<tr><td>Yellow Spot</td></tr>
<tr><td>Eyespot</td><td rowspan="6">Not tested</td></tr>
<tr><td>Leaf Rust</td></tr>
<tr><td>Powdery mildew</td></tr>
<tr><td>Septoria Nodorum Blotch</td></tr>
<tr><td>Stem Rust</td></tr>
<tr><td>Stripe Rust</td></tr>
</table>

* The addition of Hasten† can result in some minor damage symptoms on foliage (observed in barley field trials). These effects were minor and did not negatively impact on disease control or grain yield and quality.

Rainfastness
TOPNOTCH® is rainfast four hours after application for light rainfall events i.e. ≤10 mm rain; providing the spray has dried. Under slow drying conditions, the rainfastness period may significantly increase and a longer interval may be required for the spray to dry on foliage. DO NOT apply TOPNOTCH® if heavy rain or storms are forecast that are may reduce the residual efficacy of TOPNOTCH® i.e. >10 mm rain before four hours and spray drying on foliage; or cause runoff from treated fields within 48 hours of application.

FUNGICIDE RESISTANCE WARNING

GROUP 3 | 11 FUNGICIDE

TOPNOTCH® Fungicide is a combination of a DMI and Quinone outside Inhibitors (Qols)group of fungicides. For fungicide resistance management the product is both a Group 3 and a Group 11 fungicide. Some naturally occurring individual fungi resistant to the product and other Group 3 and/or Group 11 fungicides may exist through normal genetic variability in any fungal population. The resistant individuals can eventually dominate the fungal population if these fungicides are used repeatedly. These resistant fungi will not be controlled by this product or other Group 3 and/or Group 11 fungicides, thus resulting in a reduction in efficacy and possible yield loss. Since the occurrence of resistant fungi is difficult to detect prior to use, Adama Australia accepts no liability for any losses that may result from the failure of TOPNOTCH® Fungicide to control resistant fungi. Refer to current CropLife Fungicide Resistance Management guidelines before using TOPNOTCH® Fungicide.

PRECAUTIONS
Re-entry period
DO NOT allow entry into treated areas until spray has dried. If prior entry is necessary wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS
Extremely toxic to certain apple varieties. AVOID SPRAY DRIFT. Extreme care must be used to prevent injury to apple trees. DO NOT spray where spray drift may reach apple trees. DO NOT use spray equipment that has been previously used this product to spray apple trees. Even trace amounts can cause unacceptable phytotoxicity.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT
Very toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers.

STORAGE AND DISPOSAL
Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight.
***DrumMUSTER* containers:** This container can be recycled if it is clean, dry, free of visible residues and has the *drumMUSTER* logo visible. Triple-rinse container for disposal. Dispose of rinsate by adding it to the spray tank. Do not dispose of undiluted chemical on site. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed.
It will then be acceptable for recycling at any *drumMUSTER* collection or similar container management program site. The cap should not be replaced, but may be taken separately.
If not recycling, break, crush, or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.

Returnable Containers with Micro Matic Valve: DO NOT tamper with the Micro Matic valve or the security seal. DO NOT contaminate the container with water or any foreign matter. After each use of the product, please ensure that the Micro Matic coupler delivery system and hoses are disconnected, triple rinsed with clean water. Dispose of rinsate by adding it to the spray tank. Return empty container to point of purchase. The container remains the property of Adama Australia.
Refillable Containers: Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

SAFETY DIRECTIONS
Harmful if inhaled or swallowed. May irritate the eyes and the skin. Repeated exposure may cause allergic disorders. Avoid contact with eyes and skin. Do not inhale spray mist. Sensitive workers should use protective clothing. When preparing spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow-length chemical resistant gloves and a half facepiece respirator with organic vapour/gas cartridge or canister. If applying by boomspray equipment, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing). If product on skin, immediately wash area with soap and water. If product in eyes wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, contaminated clothing and respirator and if rubber wash with detergent and warm water.

FIRST AID
If poisoning occurs contact a doctor or Poisons Information Centre. Phone Australia 131 126.

SDS
Additional information is listed in the safety data sheet (SDS). A safety data sheet for TOPNOTCH® is available from adama.com or call Customer Service on 1800 423 262.

CONDITIONS OF SALE
The use of TOPNOTCH® FUNGICIDE being beyond the control of the manufacturer, no warranty expressed or implied is given by Adama Australia regarding its suitability, fitness or efficiency for any purposes for which it is used by the buyer, whether in accordance with the Directions for Use or not. Adama Australia accepts no responsibility for any consequence whatsoever resulting from the use of this product.

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Do not eat, drink or smoke when using this product.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If skin irritation or rash occurs: Get medical advice.

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