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## CAUTION

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

# Systiva®

## Seed Treatment Fungicide

**ACTIVE CONSTITUENT: 333 g/L FLUXAPYROXAD**

GROUP	<b>7</b>	FUNGICIDE
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For the control of a range of seed and foliar fungal diseases of barley, wheat, and oats, and the suppression of stripe rust in wheat and Rhizoctonia root rot in barley and wheat.

**IMPORTANT: READ THE SAFETY DIRECTIONS BEFORE USING THIS PRODUCT**

CONTENTS: 1L - 110L

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**APVMA Approval No.: 70065/138722**

<b>FS</b>	FORMULATION TYPE <b>Flowable Concentrate for Seed Treatments</b>
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## DIRECTIONS FOR USE

CROP	DISEASE	APPLICATION RATE	CRITICAL COMMENTS
Barley	Loose smut ( <i>Ustilago segetum</i> var <i>nuda</i> ) Suppression of Rhizoctonia root rot ( <i>Rhizoctonia</i> <i>solani</i> )	150mL/100kg seed	Apply diluted with sufficient water to ensure even coverage of seed. Apply with an applicator designed for liquid seed treatments. Calibrate application equipment for the flow rate of the grain.  SYSTIVA will provide suppression of Rhizoctonia and reduce severity of disease within the crop.
	Powdery Mildew ( <i>Blumeria</i> <i>graminis</i> f.sp. <i>hordei</i> ) Net Form of Net Blotch ( <i>Pyrenophora</i> <i>teres</i> f. <i>teres</i> ) Scald ( <i>Rhynchosporium</i> <i>secalis</i> ) Spot form of Net Blotch ( <i>Pyrenophora</i> <i>teres</i> f. <i>maculata</i> ) Leaf rust ( <i>Puccinia hordei</i> )		SYSTIVA is systemic and will provide ongoing residual activity. Typically, greater control and be seen on newly emerged, younger leaves.  Foliar diseases will be controlled in the crop canopy, including upper leaves, up to the time when the crop reaches the following growth stages, with good suppression thereafter.  Powdery Mildew and Leaf Rust will be controlled up to flag leaf emergence – BBCH 37. Net Form of Net Blotch, Spot Form of Net Blotch and Scald will be controlled to at least the middle of heading –BBCH 55 (middle of inflorescence emerging), dependent on good agronomic practice and barley variety.  Monitor and manage disease from BBCH 32 onwards. Apply a foliar fungicide when required. Systiva should be used in a well managed resistance management program.
Wheat	Bunt ( <i>Tellitia</i> spp.)  Septoria tritici blotch ( <i>Zymoseptoria</i> <i>tritici</i> )  Suppression of Rhizoctonia root rot ( <i>Rhizoctonia</i> <i>solani</i> )  Suppression of Stripe rust ( <i>Puccinia</i> <i>striiformis</i> )	150mL/100kg seed	Applied diluted with sufficient water to ensure even coverage of seed. Apply with an applicator designed for liquid seed treatments. Calibrate application equipment for the flow rate of the grain.  SYSTIVA will provide suppression of Rhizoctonia and Stripe rust and reduce severity of disease within the crop.  Septoria tritici blotch will be controlled up to early stem elongation growth stage BBCH 31-32. Due to the long latent period of Septoria, a foliar fungicide program is recommended to be applied at this stage following the use of SYSTIVA. Monitor and manage disease from BBCH 32 onwards or earlier in a high-pressure situation. Apply a foliar fungicide when required. SYSTIVA should be used in a well-managed resistance management program.



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CROP	DISEASE	APPLICATION RATE	CRITICAL COMMENTS
Oats	Septoria avenae blotch ( <i>Parastagonospora avenae</i> ) Red leather leaf ( <i>Spermospora avenae</i> ) Leaf rust ( <i>Puccinia coronata f.sp. avenae</i> ) Stem rust ( <i>Puccinia graminis f.sp. avenae</i> )	150mL/100 kg seed	Apply diluted with sufficient water to ensure even coverage of seed. Apply with an applicator designed for liquid seed treatments. Calibrate application equipment for the flow rate of the grain. SYSTIVA is systemic and will provide ongoing residual activity. Typically, greater control will be seen on newly emerged, younger leaves. Foliar diseases will be controlled in the crop canopy, including upper leaves, up to the time when the crop reaches the following growth stages, with good suppression thereafter. Septoria avenae blotch, Red leather leaf, Leaf rust and Stem rust will be controlled up to flag leaf emergence – BBCH 37 dependent on good agronomic practice and oat variety. Monitor and manage disease from BBCH 32 onwards or earlier in a high-pressure situation. Apply a foliar fungicide when required. SYSTIVA should be used in a well-managed resistance management program.

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

#### **WITHHOLDING PERIODS**

**GRAZING: DO NOT GRAZE PLANTS GROWN FROM TREATED SEED OR CUT FOR STOCK FOOD WITHIN 4 WEEKS OF SOWING**

**HARVEST: NOT REQUIRED WHEN USED AS DIRECTED**

**LIVESTOCK DESTINED FOR EXPORT MARKETS**

The grazing withholding period only applies to stock slaughtered for the domestic market. Some export markets apply different standards. To meet these standards, ensure that in addition to complying with the grazing withholding period, the Export Slaughter Interval is observed before stock are sold or slaughtered.

#### **EXPORT SLAUGHTER INTERVAL (ESI)**

After observing the withholding period for grazing or cutting stockfood, livestock that have been grazed or fed treated crops should be placed on clean feed for 2 days prior to slaughter.

#### **EXPORT OF TREATED CEREALS**

Growers should note that Maximum Residue Limits (MRLs) or import tolerances do not exist in all markets for cereals treated with SYSTIVA. Additionally, some export markets have established MRLs different to those in Australia. If you are growing cereals for export, please check with BASF or your grain exporter for the latest information on MRLs and import tolerances BEFORE using SYSTIVA.

#### **GENERAL INSTRUCTIONS**

SYSTIVA is a broad spectrum systemic fungicide. It inhibits spore germination, mycelial growth and sporulation of the fungus. Application of SYSTIVA to seed will result in control of seed borne loose smut in barley and bunt in wheat, suppression of Rhizoctonia and extended control of foliar diseases as outlined in the Directions for Use table. SYSTIVA treated seed will act as a reservoir and continue to provide systemic movement to the foliage over an extended period of time.

## APPLICATION

Apply to seed with equipment which results in even coverage of all seed. SYSTIVA should be mixed with a sufficient volume of water up to a maximum mix volume of 600mL/100kg seed, to ensure a slurry which results in thorough and even coverage of seed.

### Storage of Treated Seed

Seed treated with SYSTIVA may be stored in a cool, dry well ventilated place until the following season, with no adverse effects on germination or emergence, however as conditions of storage may not be known, BASF accept no liability for stored treated seed. When treated seed is stored, it should be kept apart from other grain and the bags or containers should be clearly marked to indicate the contents have been treated with this product. DO NOT use treated seed for human consumption. Bags which have held treated seed are not to be used for any other purpose.

## FUNGICIDE RESISTANCE WARNING

<b>GROUP</b>	<b>7</b>	<b>FUNGICIDE</b>
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SYSTIVA is a member of the succinate dehydrogenase inhibitor (SDHI) group of fungicides. For fungicide resistance management the product is a Group 7 fungicide.

Some naturally occurring individual fungi resistant to SYSTIVA and other Group 7 fungicides may exist through normal genetic variability in any fungal population. The resistant individuals can eventually dominate the fungal population if SYSTIVA is used repeatedly. These resistant fungi may not be controlled by SYSTIVA or other Group 7 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, BASF Australia Ltd accepts no liability for any losses that may result from the failure of SYSTIVA to control resistant fungi.

## RE-HANDLING TREATED SEED

Do not allow re-handling of treated seed until dry unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

## PRECAUTIONS

Do not use treated seed for human or animal consumption. Do not allow treated seed to contaminate seed intended for human or animal consumption.

## PROTECTION OF LIVESTOCK

DO NOT feed treated seed to animals. DO NOT allow treated seed to contaminate grain intended for animal consumption.

## PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT feed treated seed or otherwise expose to wild or domestic birds. Any spillages of treated seed, however minor, must be cleaned up immediately, preferably by recovery and re-use. If disposal is required, ensure treated seeds are thoroughly buried and not accessible to birds and other wildlife.

DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

## STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Triple rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler



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or designated collection point. 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.

### **STORAGE AND DISPOSAL (110L only)**

Keep out of reach of children. Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

### **SAFETY DIRECTIONS**

May irritate the skin. Avoid contact with skin. When opening the container and mixing, loading and using the product wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length chemical resistant gloves. Wash hands after use. After each day's use wash gloves and contaminated clothing.

### **FIRST AID**

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126. If in eyes, hold eyes open, flood with a water for at least 15 minutes and see a doctor.

### **SAFETY DATA SHEET**

For further information refer to the Safety Data Sheet (SDS).

### **CONDITIONS OF SALE**

All conditions and warranties rights and remedies implied by law or arising in contract or tort whether due to the negligence of BASF Australia Ltd or otherwise are hereby expressly excluded so far as the same may legally be done provided however that any rights of the Buyer pursuant to non-excludable conditions or warranties of the Competition and Consumer Act 2010 or any relevant legislation of any State are expressly preserved but the liability of BASF Australia Ltd or any intermediate Seller pursuant thereto shall be limited if so permitted by the said legislation to the replacement of the goods sold or the supply of equivalent goods and all liability for indirect or consequential loss or damage of whatsoever nature is expressly excluded. This product must be used or applied strictly in accordance with the instructions appearing hereon. This product is solely sold for use in Australia and must not be exported without the prior written consent of BASF Australia Ltd.

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Batch No:

Date of Manufacture:

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**FOR SPECIALIST ADVICE IN AN  
EMERGENCY ONLY  
PHONE 1800 803 440  
TOLL FREE - ALL HOURS - AUSTRALIA WIDE**

# **Systiva<sup>®</sup>**

## **Seed Treatment Fungicide**

**ACTIVE CONSTITUENT: 333 g/L FLUXAPYROXAD**

**Additional statements as required by Safe Work Australia in accordance with the Globally Harmonized System of Classification and Labelling (GHS)**

### **HAZARD STATEMENT**

May cause harm to breast fed child.

### **PRECAUTIONARY STATEMENTS (Prevention)**

Do not breathe dust or mist. Avoid contact during pregnancy and while nursing.  
Do not eat, drink, or smoke when using this product.

### **PRECAUTIONARY STATEMENTS (Response)**

If exposed or concerned: Get medical attention.