

# POISON

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

# EXCALIA™

FUNGICIDE

Powered by INDIFLIN™

**ACTIVE CONSTITUENT: 400 g/L INPYRFLUXAM**

<b>GROUP</b>	<b>7</b>	<b>FUNGICIDE</b>
--------------	----------	------------------

For control of *Rhizoctonia solani* in Potato and Yellow sigatoka in Banana

CONTENTS: 1 - 20 L

 **SUMITOMO CHEMICAL**

## RESTRAINTS

**DO NOT** apply by boom sprayer.

**DO NOT** apply if heavy rains or storms are forecast within 3 days.

**DO NOT** irrigate to the point of field runoff for at least 3 days after application

## SPRAY DRIFT RESTRAINTS

Specific definitions for terms used in this section of the label can be found at [apvma.gov.au/spraydrift](http://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/s 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 three 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 vertical sprayer unless the following requirements are met:

- Spray is not directed above the target canopy.
- The outside of the sprayer is turned off when turning at the end of rows and when spraying the outer row on each side of the application site.
- For dilute water rates up to the maximum listed for each type of canopy specified, minimum distances between the application site and downwind sensitive areas are observed (see 'Mandatory buffer zones' section of the following table titled 'Buffer zones for vertical sprayers').

### Buffer zones for vertical sprayers

Application rate	Type of target canopy	Mandatory downwind buffer zones				
		Bystander area	Natural aquatic areas	Pollinator areas	Vegetation areas	Livestock areas
185 mL/ha	2 metres tall and smaller, maximum dilute water rate of 1000 L/ha	0 metres	5 metres	0 metres	0 metres	0 metres
	taller than 2 metres (not fully-foliated), maximum dilute water rate of 1000 L/ha	0 metres	20 metres	0 metres	0 metres	0 metres
	taller than 2 metres (fully-foliated), maximum dilute water rate of 1000 L/ha	0 metres	10 metres	0 metres	0 metres	0 metres

**DO NOT** apply by aircraft unless the following requirements are met:

- Spray droplets are not smaller than a MEDIUM spray droplet size category.
- For maximum release height above the target canopy of 3 metres or 25 per cent of wingspan or 25 per cent of rotor diameter, whichever is the greatest, minimum distances between the application site and downwind sensitive areas are observed (see the following table titled 'Buffer zones for aircraft').

### Buffer zones for aircraft

Application rate	Type of aircraft	Mandatory downwind buffer zones				
		Bystander area	Natural aquatic areas	Pollinator areas	Vegetation areas	Livestock areas
185 mL/ha	Fixed-wing	0 metres	130 metres	0 metres	0 metres	10 metres
	Helicopter	0 metres	95 metres	0 metres	0 metres	10 metres

### DIRECTIONS FOR USE:

CROP	DISEASE	RATE	CRITICAL COMMENTS
Potatoes	Soil borne <i>Rhizoctonia solani</i>	2 mL/100 m row	<p>Apply as an in-furrow spray at planting. Preferably use more than one spray nozzle to direct the spray in a 15 – 20 cm band on to the seed pieces and surrounding soil as they fall into the planting furrow. Apply in 1 - 3 L of water/100 m row - being careful not to wash previously applied seed treatments from the seed.</p> <p>To reduce the potential for seed piece breakdown, avoid applying in conditions of very high soil temperature or moisture as the addition of moisture to the seed may increase the problem.</p>
Bananas	Yellow sigatoka	185 mL/ha plus a high quality water miscible mineral crop oil at 3 - 5 L/ha.	<p>EXCALIA should be applied as part of a regular program of fungicide sprays, alternating with fungicides from different mode of action groups. Intervals between fungicide applications generally should be 14 – 21 days. Use shorter intervals under conditions of high disease pressure, wet weather, and high leaf emergence rate.</p> <p>De-leafing in accordance with industry guidelines to remove old and diseased leaves should continue along with fungicide use to reduce inoculum.</p> <p>EXCALIA should be used with a high quality miscible mineral crop oil at 3 – 5 L/ha. Use a higher oil rate with higher disease pressure.</p> <p><b>Apply a maximum of 3 applications of EXCALIA to any banana block in a 12 month period.</b></p> <p>EXCALIA should be diluted with sufficient water to ensure thorough coverage of all leaf surfaces. Use a minimum of 30 L/ha when applied by air.</p>

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

#### WITHHOLDING PERIODS:

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

**BANANA: DO NOT HARVEST FOR 1 DAYS AFTER APPLICATION**

#### EXPORT OF TREATED PRODUCE:

Growers should note that maximum residue limits (MRLs) or import tolerances may not exist in all markets for produce treated with Excalia Fungicide. If you are growing produce for export, please check with Sumitomo Chemical Australia Pty Ltd for the latest information on MRLs and import tolerances before using Excalia Fungicide.

## GENERAL INSTRUCTIONS:

### MIXING

Shake well before use. For use in potato add the required quantity of Excalia Fungicide to clean water in the tank while stirring or with agitators in motion. Maintain agitation until spraying is complete. For use in bananas, half fill the spray tank with clean water, pour in the required quantity of Excalia Fungicide, with agitators running, and then add the high-quality water miscible mineral crop oil followed by the remainder of the water and mix well. Use spray mixture immediately after preparation, do not allow it to stand.

### APPLICATION

#### Ground application to Bananas

Apply Excalia Fungicide in sufficient water, using suitable application parameters (nozzles, pressure, speed, etc.) to ensure thorough and even coverage of the target area, as both are essential. Except when applying with orchard airblast equipment, use only MEDIUM spray droplet size category.

#### Aerial application to Bananas

Apply Excalia Fungicide in at least 30 L of spray mixture per hectare for aerial application. Use suitable application parameters (nozzles, pressure, speed, etc.) to deliver only a MEDIUM spray droplet size category.

#### In-furrow application to Potatoes

Excalia™ Fungicide is applied as an in-furrow application at planting. Mount the spray nozzle so the spray is directed into the furrow at the seed as a 15 - 20 cm band to apply product just before the seed is covered. Alternatively use a 2 nozzle system per row spraying the furrow prior to seed drop and after it has dropped just prior to covering. To reduce the potential for seed piece breakdown, strictly follow label instructions regarding water volume and follow industry recommended seed piece handling and planting practices.

### SPRAYER CLEAN UP

If clean up is required, clean up spray equipment by rinsing all application, pumping and mixing equipment twice with clean water after use.

### FUNGICIDE RESISTANCE WARNING:

GROUP	<b>7</b>	FUNGICIDE
-------	----------	-----------

Excalia™ Fungicide is a member of the carboxamide group of fungicides. For fungicide resistance management Excalia™ Fungicide is a Group 7 fungicide. Some naturally occurring individual fungi resistant to Excalia™ Fungicide 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 these fungicides are used repeatedly. These resistant fungi will not be controlled by this product and 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, Sumitomo Chemical Australia Pty Ltd accepts no liability for any losses that result from failure of Excalia™ Fungicide to control resistant fungi.

Excalia™ Fungicide may be subject to specific resistance management strategies. For further information refer to the CropLife Australia website [www.croplifeaustralia.org.au](http://www.croplifeaustralia.org.au).

## **COMPATIBILITY**

Excalia Fungicide is compatible with many commonly used fungicides, liquid fertilisers, herbicides, insecticides, and biological control products. However, since the formulations of products are always changing, it is advisable to test the physical compatibility of desired tank mixes and check for adverse effects like settling out or flocculation. To determine the physical compatibility, add the recommended proportions of the tank mix products to water, mix thoroughly and allow to stand for 20 minutes. If the combination remains mixed, or can be re-mixed readily, it is considered physically compatible.

Excalia Fungicide is compatible with EndoPrime®, Biopest Paraffinic Oil, Rizolex® In Furrow Fungicide. The crop safety of all potential tank-mixes, including additives and other pesticides, on all crops has not been tested. Before applying any tank-mix not specifically recommended on this label or other Sumitomo Chemical supplemental labelling, the safety to the target crop must be confirmed. To test for crop safety, apply the combination to a small area of the target crop in accordance with the label instructions to ensure that a phytotoxic response will not occur.

The mixing sequence recommended is: water soluble bags, dry flowable or water dispersible granules, wettable powders, water based suspension concentrates, water soluble concentrates, oil based suspension concentrates (Excalia™ Fungicide), emulsifiable concentrates, adjuvants and surfactants, soluble fertiliser.

## **PRECAUTIONS**

### **Re-entry period**

A re-entry statement is not required.

### **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:**

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. Do not store near foodstuffs or animal feed.

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 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.

### **SAFETY DIRECTIONS:**

Harmful if swallowed. When using together with other products, consult their safety directions. When opening the container, preparing and using the spray wear cotton overalls buttoned to neck and wrist (or equivalent clothing). Wash hands after use. After each day's use, wash contaminated clothing.

### **FIRST AID:**

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131 126; New Zealand 0800 764 766.

### **SAFETY DATA SHEET:**

Additional information is listed in the Safety Data Sheet (SDS) obtained from Sumitomo Chemical Australia Pty Ltd.

## IMPORTANT NOTICE

These goods are to be used only for the purpose and as specified on the label, and are not suitable for any other purpose. To the fullest extent permitted by law, we do not accept or bear any liability on any basis for any loss, damage, cost or expense, arising in any way, directly or indirectly, in connection with the goods.

APVMA Approval No.: 90901/130464

® Registered Trademark of Sumitomo Chemical Ltd

\* Non Sumitomo Chemical Australia Pty Ltd Trademark.

© 2023 Sumitomo Chemical Australia Pty Ltd. All rights reserved.

Sumitomo Chemical Australia Pty Ltd

ABN 21 081 096 255

51 Rawson Street EPPING NSW 2121

Phone: (02) 8752 9000

[www.sumitomo-chem.com.au](http://www.sumitomo-chem.com.au)

SPECIALIST ADVICE IN EMERGENCY ONLY 1800 033 111

ALL HOURS - AUSTRALIA WIDE



### ADDITIONAL GHS HAZARD STATEMENTS:

**DO NOT** eat, drink or smoke when using this product. Avoid breathing spray.

Batch No:

Date of Manufacture:

BARCODE