

A fungicide for the control of foliar and tuber blight (Phytophthora infestans) in potatoes.

A suspension concentrate containing 500 g/l (38.4% w/w) fluazinam

GROUP 29 FUNGICIDE

#### IMPORTANT INFORMATION: FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE

	Crop	Maximum individual dose: L/ha	Maximum total dose: L/ha	Maximum number of applications	Latest time of application
	Potatoes	0.4	4	10	7 days before harvest

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER WH.
INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE PR'ICIPL'S OF
GOOD PLANT PROTECTION PRACTICE FOR USING PLANT PROTECTIO', PRODUC'S

#### Content:

# **5Le**



**FUNGICIDE** 

Production date / Batch number: see packaging

FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE FOR PROFESSIONAL USE ONLY



PROTECT FROM FROST



Distributed by:

Whelehan Crop Protection, Suite 12, Bunkilla Plaza Bracetown Business Park, Clonee, Co Meath, Ireland Technical enquiries: 00 353 1 4688900

SHIRLAN® - A suspension concentrate containing 500 g/l (38.4% w/w) fluing

May cause an allergic skin reaction
Suspected of damaging the unborn child

Very toxic to aquatic life with long lasting effects

If medical advice is needed, have the product container o label to hand.

Avoid breathing mist/vapours/spray.

Wash hands thoroughly after handling. Keep out of reach of children

Wear protective gloves/protective clothing.

IF exposed or concerned: Get medical advice/at IF ON SKIN: Wash with plenty of soap and wate

If skin irritation or rash occurs: Get medic ladvice/attention
Dispose of contents/container to licen di hazardous-waste
disposal contractor or collect on site exc. ot for empty can
triple-rinsed containers which are ladded of as non hazal lous

waste

To protect aquatic organisms respect an unspraye buffe of 5m to surface water bodies

To avoid risks to human health and the envir nme t come, with the instructions for use

® SHIRLAN is a registered trademark

24-hour emergency number: 0032 14 58 45 45

Risk and Sale In mar on UFI: RX2P-4GG0-F309-JJAS







PCS N° 04393

Approval holder:

**ISK** 

ISK BIOSCIENCES Europe N.V. Pegasus Park - De Kleetlaan 12B B-1831 Diegem - Belgium Tel.: +32 (0)2 627 86 11



Marketing company: Certis Belchim BV Suite 5, 3 Riverside | Granta Park Great Abington | Cambridgeshire | CB21 6AD Tel.: +44 (0)1223 894261 info.uk@certisbelchim.com www.certisbelchim.com

22 06030801 43 • 107353004:IF • 7-3105200-040-11/23



#### SAFETY PRECAUTIONS

#### (a) Operator Protection

- Keep unprotected persons out of treated areas for at least 7 days.
- WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate
- WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces.
- WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the insides of gloves.
- WASH HANDS AND EXPOSED SKIN before meals and after work.
- TAKE OFF IMMEDIATELY all contaminated clothing.
- WASH CONCENTRATE from skin and eyes immediately.
   Avoid all skin contact with product, spray mist and treated
- Avoid all skin contact with product, spray mist and treated crops;
- Anyone developing skin reactions suggestive of sensitisation, such as severe itching, redness or such as advised to stop using SHIRLAN® immedial advice
- Wash all protective clothing (core ralls regularly, preferably daily, when working with FIIRI N°.
- When entering crops do not allow connect of improtected skin with treated foliage.
- People who have been sensitived by SHIRLAN® not do not use or have further contact with the product
- IF YOU FEEL UNWELL (eek in dical advice sho I lab 3) where possible).

#### (b) Environmental protection

- Ensure spraying is carried out under good conditions and that sprayer is adjusted to minimise drift
- Do not contaminate water with the roduct 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.

#### (c) Storage and Disposal

- Do not re-use container for any other purpose.
- 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 IN ORIGINAL CONTAINER, tightly closed in a safe place.

## PROPERTIES OF SHIRLAN® BACKGROUND TO POTATO BUIGHT CONTROL

Late blight (*Phytophthora infestans*) is a potentially devastating disease of potatoes. In commercial production, a season long disease prevention policy is essential. Use cultural control as ar as possible, such as:

- (1) Prevent re-growth on potato dumps.
- (2) Use gen rous soil ridges to protect tubers.
- Integrate true approach with a fungicide programme:

### Earl Cruns

first and second e riv potato crops, particularly those grown in the sangle ally as main crop potatoes, and dequate and first big the protection programme should be applied right to be any crop while helping to reduce disease risk to lat it crops.

#### Maincrops

Disea, a prevention programmes require regular and season long full gicide use to limit foliar blight development.

However, as an effective fungicide programme will puserve leaf area there may be more risk of infecting tubers at harvest, particularly during "heavy" blight years. Completion of the control programme should therefore include a complete haulm desiccant. Lifting of the crop should not take place for at least 10 days after COMPLETE KILL of the haulm. Crops intended for storage should not be lifted while there is any green tissue AT ALL on the leaves or stem bases.

#### **Blight Risk Assessment**

The risk of disease is affected by weather conditions (during the crop life) and crop location:

**Weather Conditions** - Spread of disease occurs under warm, humid conditions. Irrigation in warm weather provides ideal conditions for disease spread.

**NB** Blight forecasting has often been based on the occurrence of "Smith periods". A "Smith period" is a 48 hour period in which the minimum temperature is 10°C



and the relative humidity exceeds 90% for at least 11 hours during the first 24 hours and for at least 11 hours again during the final 24 hours.

However, any period of warm, humid weather increases blight risk.

**Crop Location** - Locations with the highest probability of blight problems are:

- (1) Areas of the country where extensive maincrop or early production takes place.
- (2) Areas where climatic conditions that encourage disease development occur on a frequent basis

#### DIRECTIONS FOR USE

IMPORTANT: THIS INFORMATION IS APPROVED AS PART OF THE PRODUCT LABEL. ALL INSTRUCTIONS WITHIN THIS SECTION MUST BE CAREFULLY READ IN ORDER TO OBTAIN SAFE AND SUCCESSFUL USE OF THIS PRODUCT.

#### **Application Details**

- Application equipment: Apply SHIRLAN® through tractor mounted conventional hydraulic field crop spraying equipment.
- Sprayer preparation: Ensure that the sprayer is clean and calibrated correctly, to give even application. Apply at 'erecommended water volumes using a MEDIUM q ality spray.
- 3. Spray pressure: at least 2 bar.
- 4. Mixing: Before mixing SHIRLAN®, first part fit the pray tank with clean water and commence accitation. Then, shake the SHIRLAN® container and and the required amount of product to the tank, before onto ing the filling of the spray tank. Agitate thoroughly milst filling the pray tank and throughout the spraying of pration.

Do not leave the spray liquid of less rayer for long periods (such as during meal-breaks or overnight).

## Spray Timing and Intervals 1. Initial Application

SHIRLAN® is a protectant fungicide and the efore the spray programme must start BEFORE blight enters in crop.

programme misstant berock billight enterest drops are the first blight warning or when local weather conditions are favourable for the disease, whichever is the sooner. Otherwise, in the absence of weather conducive to disease development, the first application should be made just before foliage of adjacent plants IN THE ROWS begins to meet. Ensure no areas of the field are left nutreated.

#### 2. Repeat Applications

Intervals between applications of SHIRLAN® MUST be reduced as blight risk increases, so that protection of the crop can be maintained.

"Low risk" situations - applications should be made as a precautionary measure, before conditions conducive to blight

development have occurred - APPLY AT 10 DAY INTERVALS "High risk" situations - following two warm, humid days or in irrigated crops - APPLY AT 7-10 DAY INTERVALS.

"Severe risk" situations - during continued warm, humid weather and when blight is in nearby crops, potato dumps or volunteer plants- APPLY AT 7 DAY INTERVALS.

**NB** Potato blight fungicides may not give complete protection when the disease risk is severe. However, disease development will be delayed dramatically with a well timed spray programme.

Up to ten applications of SHIRLAN® may be made to a crop.

#### Application Rate and Water Volume

Apply 400 ml/ha of SHIRLAN® at each treatment.

Apply SHIRLAN® in 200 to 500 litres of water per hectare. Use adec rate water to ensure complete coverage of the foliage and tems, increasing the volume as haulm growth progresses, ticularly in dense crops and under high or so were busht risk conditions.

#### l'ar /est Interval

All w  $\sim$  least 7 day. To L'apsi between the last application of S IIRLAN® and harves, of the crop.

Consult processo before use.

#### Disease Re ista ice

Disease control may be reduced if strains of pathogen less ser sitive to SHIRLAN® develop.

THIS PRODUCT IS TO BE USED ONLY IN ACCORDANCE WITH THE RECOMMENDATIONS AND INSTRUCTIONS GIVEN ON THE LABEL PROVIDED WITH THIS PACK. USE IN ANY OTHER CIRCUMSTANCES IS ENTIRELY AT THE USER'S RISK.

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



WEBLINK to specific data sheet on manufacturer's website:

http://www.certisbelchim.co.uk/pdf/MSDS/ Shirlan\_MSDS-IE.pdf

Alternatively, contact your supplier.