

# FLUAZAFIN

A suspension concentrate formulation containing 500g/L of Fluazinam. An agricultural fungicide for the control of late foliar blight (*Phytophthora infestans*) and protection against tuber blight in potatoes. MAPP 18549

	FLUAZIFIN . A suspension concentrate formulation containing 500g/L of Fluazinam. <b>DANGER</b> May cause an allergic skin reaction Suspected of damaging the unborn child Very toxic to aquatic life with long lasting effects
	Keep out of reach of children Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection/face protection IF exposed: Get medical advice/attention If skin irritation or rash occurs: Get medical advice/attention IF ON SKIN: Wash with plenty of soap and water
	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  <b>To avoid risks to human health and the environment, comply with the instructions for use.</b>

IMPORTANT INFORMATION : FOR PROFESSIONAL USE ONLY AS AN AGRICULTURAL FUNGICIDE				
Crop	Maximum individual dose ml. product/ha	Maximum number of treatments per crop	Latest time of application	Aquatic buffer zone
Potatoes	400	7	7 days before harvest	6 metres
<p><b>Other specific restrictions:</b> Do not apply the product via hand-held equipment when used on crops/situations with a greater than 5m aquatic buffer zone. A minimum interval of 7 days between applications must be observed. See 'Crop Specific Information' section for further timings.</p> <p><b>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.</b></p>				

<p><b>Approval Holder</b> Finchimica S.p.A, via Lazio, 13, 25025 Manerbio (BS), Italy <b>Marketing company in UK</b> <b>Clayton Plant Protection (UK) Ltd. Unit F10,</b> <b>Bracetown Business Park</b> <b>Clonee, Co. Meath. Ireland</b> Tel: (00 353) 1 8210127 <a href="http://www.claytonpp.com">www.claytonpp.com</a> Email: info@claytonpp.com</p>	<p><b>STORE IN A COOL DRY PLACE</b> <b>PROTECT FROM FROST</b></p> <p><b>Contents : 5L e</b></p> <p><b>UN3082</b></p> <p>Batch no:</p>
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## SAFETY PRECAUTIONS

### Operator protection

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling the concentrate or handling contaminated surfaces.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) when applying the product. However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

TAKE OFF IMMEDIATELY all contaminated clothing.

WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the insides of gloves.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH HANDS AND EXPOSED SKIN before eating, drinking or smoking and after work.

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY with plenty of water and seek medical advice.

IF YOU FEEL UNWELL seek medical advice (show label where possible).

### **Environmental protection**

Do not contaminate water with this product or its container and do not clean application equipment near surface water.

Avoid contamination via drains from yards and roads.

To protect aquatic organisms, respect an unsprayed buffer zone to surface water bodies as specified for the crop.

**HORIZONTAL BOOM SPRAYERS MUST BE FITTED WITH THREE STAR DRIFT REDUCTION TECHNOLOGY.**

Low drift spraying equipment must be operated according to the specific conditions stated in the official three star rating for that equipment as published on HSE Chemicals Regulation Directorate's website. Maintain three star operating conditions until 30 m from the top of the bank of any surface water bodies.

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 6m of the top of the bank of a static or flowing water body, or within 1 m of the top of a ditch which is dry at the time of application. Aim spray away from water.

NOTE: BUFFER ZONES OF MORE THAN 5 M CANNOT BE REDUCED UNDER THE LOCAL ENVIRONMENT RISK ASSESSMENT FOR PESTICIDES (LERAP) SCHEME.

The statutory buffer zone must be maintained and the distance recorded in Section A of the LERAP record form.

The LERAP record form must be kept available for three years.

Buffer zones must be measured according to the guidance set out in the booklet 'Local Environment Risk Assessment for Pesticides–Horizontal Boom Sprayers' (available from the HSE Chemicals Regulation Directorate's website), and its amendments.

The results of the LERAP must be recorded in written form; they must be available for three years to the inspection of any person entitled to exercise enforcement powers in connection with the Plant Protection Products Regulations 2011 or the Plant Protection Products (Sustainable Use) Regulations 2012. (An electronic record will likewise satisfy the requirement for a written record).

As for risks to arthropods and non-target insects, see *Directions of Use*.

### **Storage and disposal**

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.

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.

DO NOT RE-USE CONTAINER FOR ANY PURPOSE.

### **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.**

#### **Restrictions**

DO NOT apply when rain or irrigation is imminent. Apply to dry foliage. Avoid spray drift onto non-target plants and crops.

Avoid contact with unprotected skin and treated foliage.

#### **Disease Resistance**

FLUAZIFIN contains Fluazinam (a 2,6-dinitro-aniline fungicide). Whilst resistance in *Phytophthora infestans* populations is not likely to develop, if fungicides with the same mode of action are used over several years in the same field, less sensitive strains may survive, propagate and even become dominant in the field. Therefore, spray programmes using fungicides with differing modes of action are suggested. The use of FLUAZIFIN in blight spray programmes could be useful as part of an anti-resistance strategy. For further advice on resistance management for potato blight (*Phytophthora infestans*) contact your agronomist or specialist advisor.

#### **DISEASES CONTROLLED**

FLUAZIFIN is an agricultural fungicide used for the control of foliar blight (*Phytophthora infestans*) and protection against tuber blight in potatoes.

#### **CROP SPECIFIC INFORMATION**

**Crops grown for processing** : consult processor before use.

#### **Timing**

**Initial Application** : As FLUAZIFIN is a protectant fungicide, the spray programme has to be started BEFORE blight enters the crop.

Regardless of the crop growth stage, start spraying as soon as an official blight warning has been issued or when weather conditions are favourable, whichever is the sooner. In the absence of weather conditions conducive to disease development, the first application should be made as soon as foliage of adjacent plants in the rows begins to meet (approximately 15-30 cm high).

**Repeat Applications** : Intervals between applications of FLUAZIFIN should be reduced as blight risk increases, in order to maintain the crop protection, as follows:

Risk situation	Further information	Interval	Rate L/ha
Low	Applications should be made as a precautionary measure, before conditions conducive to blight development have occurred.	14 days	400 ml/ha
High	Following two warm, humid days or in irrigated crops.	7–10 days	400 ml/ha
Severe	During continued warm, humid weather and when blight is in nearby crops, potato dumps or volunteer plants.	7 days	400 ml/ha

N.B. In case of severe risk, potato blight fungicides cannot offer a total protection. However, disease development will be delayed through a correctly timed spray programme.

Up to 7 applications of FLUAZIFIN may be made to a crop.

Avoid spraying within 5m of the field boundary to reduce the effects on arthropods and non-target insects.

#### **For protection against Tuber Blight**

In order to reduce the risk of problems with tuber blight at harvest, FLUAZIFIN has to be used regularly at the recommended intervals, from full canopy development to pre-harvest interval or, if possible, to complete haulm desiccation.

**Rate of Use** : Apply 400 mL/ha of FLUAZIFIN at each treatment.

#### **MIXING AND SPRAYING**

Apply FLUAZIFIN in 200 to 500 litres of water per hectare.

Use a sufficient volume of water, ensuring full coverage of foliage and stems, increasing the volume as haulm growth progresses, particularly in dense crops and in case of high or severe blight risk conditions.

#### **Application Details**

**Application** Equipment: Apply FLUAZIFIN through tractor drawn or mounted, conventional hydraulic crop spraying equipment.

**Sprayer Preparation**: Ensure that the sprayer is clean and calibrated correctly. Apply at the water volumes appropriate for the density of the crop, using a MEDIUM quality spray (as defined by BCPC guidelines) to guarantee a good coverage of the foliage.

**Spray Pressure**: at least 2 bar.

**Mixing**: Before mixing FLUAZIFIN, fill the spray tank with clean water and start agitation. Shake the container before opening. Open the FLUAZIFIN container and add the recommended amount of the product to the sprayer using a filling device, or otherwise by direct adding the product to the spray tank.

Flush thoroughly the empty container and add washings to the sprayer. An integrated pressure rinsing device is suggested; otherwise manually rinse the container three times.

**DO NOT RE-USE CONTAINER FOR ANY PURPOSE.**

Agitate spray tank contents thoroughly whilst filling and throughout the whole spraying operation.

Do not leave the spray liquid in the sprayer for prolonged periods. Therefore, never prepare more spray than is required.

**Tank cleaning**: After use, wash measuring and spray equipment thoroughly.

**Conditions of Supply**: all goods supplied by us are of high quality and we believe them to be correct but, as we cannot exercise control over their storage, handling, mixing or use, or weather conditions before, during and after application which may affect the performance of the goods, all conditions and warranties, statutory or otherwise, as to the quality or fitness for any purpose of our goods are excluded, and no responsibility will be accepted by us or resellers 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.

**FLUAZIFIN** is a trademark of Finchimica S.p.A., Italy.