

# Ranman®

## TOP

A protectant fungicide for the control of potato late blight (*Phytophthora infestans*) (foliar protection)

**FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE**

Suspension concentrate (SC) containing 160g/l cyazofamid

**24-hour emergency number: 0032 14 58 45 45**

### Risk and Safety Information

#### Ranman Top

*A suspension concentrate formulation (SC) containing 160 g/l cyazofamid*

#### Causes serious eye irritation

#### Harmful to aquatic life with long lasting effects

Wear eye protection

Wash hands thoroughly after handling.

Avoid release to the environment.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: get medical advice/attention.

Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean triple-rinsed containers which can be disposed of as non-hazardous waste.

Safety data sheet available on request

**To avoid risks to human health and the environment comply with the instructions for use**

**WARNING**



**PCS N°04497**

Contents: **5**le



Production date / Batch number:  
see packaging

**PROFESSIONAL USE ONLY**

**PROTECT FROM FROST**

**SHAKE WELL BEFORE USE**

Distributed by:



**Whelehan Crop Protection**

Suite12, Bunkilla Plaza  
Bracetown Business Park  
Clonee, Dublin 15  
Technical enquiries:  
00 353 1 4688900

Approval holder:



**ISK Biosciences Europe NV**

Pegasus Park  
De Kleettaan 12B, Box 9  
B-1831 Diegem  
Belgium

© is a registered trademark of  
Ishihara Sangyo Kaisha Ltd; Japan



**BELCHIM**  
CROP PROTECTION

**IMPORTANT INFORMATION  
FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE**

Crops	Max. individual Dose	Max. number of treatments	Max. total dose	Latest time of application
Potatoes (seed and ware)	500 ml/ha	6 per crop	3 l/ha	7 days before harvest

**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**

**Operator Protection**

ENGINEERING CONTROL OF OPERATOR EXPOSURE may be used where reasonably practicable in addition to the following personal protective equipment:

- WEAR SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACE SHEILD) when handling the concentrate.
- AVOID CONTACT WITH EYES. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- IF YOU FEEL UNWELL, seek medical advice IMMEDIATELY and show this container or label.
- 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.

**Environmental Protection**

- Do not contaminate water with the product or its container. (Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads).
- Do not empty into drains
- Use appropriate containment to avoid environmental contamination.

**Storage and Disposal**

- KEEP OUT OF REACH OF CHILDREN
- KEEP AWAY FROM FOOD AND DRINK AND ANIMAL FEEDING STUFFS
- 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 to sprayer at time of filling and dispose of safely. DO NOT RE-USE CONTAINER FOR ANY PURPOSE.

THIS MATERIAL AND ITS CONTAINER must be disposed of in a safe way.

**IMPORTANT NOTES:**

- DO NOT ALLOW THE SPRAY SOLUTION TO STAND OVERNIGHT.
- Ensure that the spraying equipment and especially nozzles have been thoroughly cleaned before starting spraying, in particular when equipment has been used for other products.
- Spraying equipment should be calibrated prior to use to ensure accurate application.
- Avoid spray drift onto neighbouring crops.

- WASH EQUIPMENT thoroughly immediately after use. Fill the tank with clean water and leave overnight. Spray out before storage or using other products.

**RESISTANCE MANAGEMENT:**

DO NOT apply more than six sprays of Ranman Top, per crop. In a programme of blight fungicides use a maximum of three consecutive applications of Ranman Top. If further treatments are required, use at least three applications of fungicides having different modes of action to Ranman Top, before applying further Ranman Top. Consult your distributor or specialist adviser if guidance is required.

**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.

**DISEASES CONTROLLED**

Ranman Top is a fungicide with activity against fungi from the class of Oomycetes, especially against *Phytophthora infestans*. It is a protectant fungicide and as such it should be applied before blight enters the crop. Depending on the disease pressure, good protection against the disease can be expected over a period of 5 to 10 days.

**CROP SPECIFIC INFORMATION**

**Timing of application:**

The first application against potato late blight should be made preventatively, when warning signs forecast a significant disease risk situation; usually this is when the potato leaves meet along the rows (row closure).

**Rate of application:**

Apply 0.5 L/ha of Ranman Top. The maximum number of applications for Ranman Top is 6.

**Volume, spray quality and application method:**

Ranman Top should be applied in 200-400 L of water per ha as a MEDIUM spray quality as defined by BCPC. Ranman Top should be applied via tractor mounted or drawn sprayer and must be applied evenly.

**Spray schedule**

Use according to disease warning

systems or on a systematic program with repeated applications.

During periods with heavy disease pressure and during rapid development of the potato haulm, or where crops are irrigated, the sprays should be repeated every 6 to 7 days. In case of exceptional disease pressure, the intervals can be slightly shortened to a 5 day spray interval. Under low disease pressure, especially after flowering, the spray should be repeated at least every 10 days.

**Pre harvest interval:** 7 days

**SELECTIVITY**

RANMAN TOP is very selective in potato crops. The use will not cause any adverse effect on the crops.

**MIXING**

Add a minimum of 50% of the required water into the spray tank, and agitate when adding the required amount of Ranman Top. Finally add the remainder of the required water volume. Keep the spray solution agitated until all product is applied. Never prepare more spray solution than required.

On emptying the container, 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 container safely.

**TANK CLEANING**

Ensure that no or only a minimal quantity of product remains in the spraying tank after field application. Upon completion dilute the remainder of the spray solution with the tank cleaning water and spray the diluted rest onto the target crop area. Any spillage should be collected and disposed of in appropriate chemical waste. In no way should contamination of waterways or surface water be allowed to occur.

Thoroughly wash out all remaining equipment after use. Rinse the spray tank with fresh water and spray the further diluted rest onto the target crop area.

**CONTAINER AND STORAGE**

Ranman Top must be kept dry and frost proof in a suitable pesticide store.

**WARRANTY/ DAMAGES**

With any products there is a general risk of resistance developing to the active ingredients. For this reason

a change in activity cannot be ruled out. It is generally impossible to predict with certainty how resistance may develop, because there are so many crop and use connected ways of influencing this. We therefore have to include liability for damage or loss attributable to any resistance that may develop. To help minimize any loss in activity the recommended rate should in all events be adhered to. Numerous, particularly regional or regionally attributable, factors can influence the activity of the product. Examples include weather and soil conditions, crop plant varieties, crop rotation, treatment times, application amounts, admixture with other products, appearance of organisms resistant to active ingredients and spraying techniques. Under particular conditions a change in activity or damage to plants cannot be ruled out. The manufacturer or supplier is therefore unable to accept any liability in such circumstances. All goods supplied by us are of high grade and we believe them to be suitable, but as we cannot exercise control over their mixing or use or the weather conditions during and after application, which may affect the performance of the material, 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 for any damage or injury whatsoever arising from their storage, handling, application or use; but nothing should be deemed to exclude or restrict any liability upon us which cannot be excluded or restricted under the provisions of applicable law.

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:

[www.belchim.com/uk/pdf/MSDS/RanmanTop\\_MSDS.pdf](http://www.belchim.com/uk/pdf/MSDS/RanmanTop_MSDS.pdf)