

# RANMAN® Twinpack 'B'

Version and date: Version 4 – Autumn 2007

Changes since last version: Updated to incorporate PSD labelling guidelines



This label is compliant with the CPA Voluntary Initiative Guidance


**FORMULATION AND ACTIVE INGREDIENT:** An organosilicone adjuvant containing Polyalkyleneoxide modified Heptamethyltrisiloxane which must be applied with Ranman TwinPack 'A' for the control of potato late blight (*Phytophthora infestans*)

**PACK SIZE :** 0.75LT

**MAPP No.** 11851

<b>IMPORTANT INFORMATION</b>	
<b>FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE</b>	
<b>Crops:</b>	Potatoes
<b>Maximum individual dose:</b>	0.2L Ranman TwinPack 'A' per hectare Plus 0.15L Ranman TwinPack 'B' per Hectare.
<b>Maximum number of treatments:</b>	6 per crop
<b>Latest time of application:</b>	7 days before harvest
<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>	

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

	<p><b>Ranman Twinpack® 'B'</b></p> <p><b>Xn-HARMFUL</b></p> <p><b>N-DANGEROUS FOR THE ENVIRONMENT</b></p>	<p>containing Polyalkyleneoxide modified Heptamethyltrisiloxane 84%</p> <p><b>R36 – Irritating to eyes</b>  <b>R48/20 – Harmful: Danger of serious damage to health by prolonged exposure through inhalation</b>  <b>R50/53 – Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</b></p> <p>S23: Do not breathe vapour.  S35 – This material and its container must be disposed of in a safe way.  S61: Avoid release to the environment. Refer to special instructions / safety data sheet.  S46: If swallowed, seek medical advice immediately and show the container or label.  S57 – Use appropriate containment to avoid environmental contamination.</p> <p>To avoid risk to man and the environment, comply with the instructions for use.</p>
---	---	--

## 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 GLOVES AND FACE PROTECTION (FACE SHIELD) when handling the concentrate.
- WEAR SUITABLE PROTECTIVE GLOVES, when handling contaminated surfaces.
- However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.
- If YOU FEEL UNWELL, seek medical advice IMMEDIATELY (show this leaflet where possible).
- WASH ALL PROTECTIVE CLOTHING thoroughly after use.
- RISK OF SERIOUS DAMAGE TO EYES.
- AVOID CONTACT WITH THE EYES. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 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 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.

### Storage and Disposal

- KEEP OUT OF REACH OF CHILDREN.
- KEEP AWAY FROM FOOD, 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 washings to sprayer at time of filling and dispose of safely.
- DO NOT RE-USE CONTAINER FOR ANY PURPOSE.

**IMPORTANT NOTES:**

- DO NOT ALLOW THE PRODUCT 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 TwinPack per crop. In a programme of blight fungicides use a maximum of three consecutive applications of Ranman TwinPack. If further treatments are required, use at least three applications of fungicides having different modes of action to Ranman TwinPack, before applying further Ranman TwinPack. Consult your distributor or specialist advisor 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.

Ranman TwinPack is a protectant fungicide for control of Potato Late Blight (*Phytophthora infestans*) and 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 7 to 10 days. Ranman TwinPack 'B' must always be used in a tank mixture with Ranman TwinPack 'A'.

**TIME OF APPLICATION:** First application against potato late blight should be made immediately the risk of blight occurs. Usually this is when the potato leaves meet along the rows.

**RATE OF APPLICATION:** Apply 0.15L/ha of Ranman TwinPack 'B' plus 0.2L/ha of Ranman TwinPack 'A'.

**WATER VOLUME:** Ranman TwinPack should be applied in 200 – 400 litres of water per hectare.

**SPRAY SCHEDULE:** 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 7 days. Under low disease pressure, especially after flowering, the spray should be repeated at least every 10 days.

**PRE-HARVEST INTERVAL:** 7 days.

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.

Ranman TwinPack should be applied via a tractor mounted or drawn sprayer and must be applied evenly.

**MIXING: IMPORTANT;** in some cases, foaming can occur. To avoid foam, the following procedure should be followed:

1. Fill the spray tank up to 10% with clean water.
2. Add the required amount of Ranman Twinpack 'A'.
3. Fill the tank up to 90% with water.
4. Then add the required amount of Ranman Twinpack 'B'
5. Add the remainder of the water.
6. Agitation on minimum speed.

**ATTENTION:** After each spraying operation is complete ensure that there is no more than 5% of the remaining fluid in the tank before filling the spray tank again for subsequent Ranman applications. For a second tank filling, start immediately with step 2 of the procedure: add the required amount of Ranman Twinpack 'A' to the remaining fluid.

See also: side of packaging.

The required amounts are shown in the following table:

Ranman TwinPack 'A'	Area	Ranman TwinPack 'B'
0.05L (50ml)	0.25 ha	0.0365L (36.5ml)
0.1L (100ml)	0.5 ha	0.075L (75ml)
0.15L (150ml)	0.75 ha	0.1125L (112.5ml)
0.2L (200ml)	1 ha	0.15L (150ml)
0.25L (250ml)	1.25 ha	0.1875L (187.5ml)
0.5L	2.5 ha	0.375L (375ml)
0.75L	3.75 ha	0.5625L
1L	5 ha	0.75L
1.5L	7.5 ha	1.125L
2L	10 ha	1.5L

**CONTAINER AND STORAGE:** Ranman TwinPack 'B' is supplied in 0.8 litre containers (contents 0.75 litres) and must be kept dry and frost proof in a suitable pesticide store.

#### WARRANTY/DAMAGES

With many 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 will develop because there are so many crop and use connected ways of influencing this. We therefore have to exclude liability for damage or loss attributable to any such resistance that may develop. To help minimise 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 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 any such circumstances. All goods supplied by us are of high grade and we believe them to be suitable, but as we cannot exercise any control over their mixing or use or the weather conditions during or 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.

TECHNICAL ENQUIRIES:	01480 403333
24 HOUR EMERGENCY NUMBER:	0032 1458 4545

**Always read the label. Use pesticides safely.**

**BELCHIM Crop Protection Limited**  
**1b Fenice Court, Phoenix Park, Eaton Socon, St. Neots, Cambridgeshire PE19 8EP**

<b>Tel : 01480 403333</b>	<b>Fax : 01480 403444</b>
---------------------------	---------------------------

Ranman® is a registered trademark of ISHIHARA SANGYO KAISHA Limited, Japan and a product of ISK Biosciences Europe SA.