

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

# **EMBLEM<sup>®</sup>**

## **FUNGICIDE**

**ACTIVE CONSTITUENT: 500g/L FLUAZINAM**

<b>GROUP</b>	<b>29</b>	<b>FUNGICIDE</b>
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**For the control of white root rot in apples, club root of broccoli, brussels sprouts, cabbage, cauliflower and kohlrabi; Eutypa dieback and the pre-bud burst suppression of phomopsis cane and leaf blight in grapevines, and the control of late blight and sclerotinia in potatoes.**

**CONTENTS: 1-10 LITRES**

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**DIRECTIONS FOR USE**

**Restrictions:**

DO NOT apply with aircraft.

Crop	Disease	States	Rate	WHP	Critical Comments															
Apples	White Root Rot ( <i>Rosellinia necatrix</i> )	Qld, NSW, WA & Tas only	50mL/100L	-	<p><b>Pre-Planting:</b> Prepare planting holes with a 30cm diameter to a depth of about 1 m. Remove all larger roots from the excavated soil. Apply 30L of a prepared suspension of EMBLEM and water per tree by mixing with the planting hole soil in the planting operation. Apply in 3 stages, adding 10L of the prepared suspension to each third of the excavated soil. Form a barrier of treated soil around each tree to contain the EMBLEM suspension and prevent other soil from contaminating the area around the tree.</p> <p><b>Established Trees :</b> During following winter dormant periods each year, retreat with 30L/tree of EMBLEM water suspension by using a soil injector, comprised of a hollow metal rod approximately 2.5 metres in length attached to a pressure pump. Maintain liquid pressure at 10-15 psi during application. Insert the rod into the soil at 8-12 points around the base of the tree to a depth of 1-2 metres, removing the rod each time when the suspension appears on the surface.</p>															
Broccoli Brussels sprouts Cabbage Cauliflower Kohlrabi	Club root ( <i>Plasmodiophora brassicae</i> )	All States	Seedling drench 25-50mL per 1000 plants	-	<p>Use the high rate in fields where severe club root has occurred previously. According to the dilution table shown below, apply the required amount of the diluted mixture immediately after transplanting around the base of each plant to ensure thorough wetting of the collar region.</p> <table border="1"> <thead> <tr> <th>Rate of EMBLEM per 1000 plants</th> <th>Amount of EMBLEM per 100L of water</th> <th>Volume of mixture to apply per 1000 plants</th> </tr> </thead> <tbody> <tr> <td>25mL</td> <td>25mL</td> <td>100L</td> </tr> <tr> <td>25mL</td> <td>12.5mL</td> <td>200L</td> </tr> <tr> <td>50mL</td> <td>50mL</td> <td>100L</td> </tr> <tr> <td>50mL</td> <td>25mL</td> <td>200L</td> </tr> </tbody> </table> <p><b>OR</b> Pre transplant soil incorporated band 3L/ha</p> <p>This method of application is most suitable for use in soils with low infiltration rates. Apply in a minimum band width of 23cm along the planting row and incorporate to a soil depth of 15-20cm with a precision incorporator in the same operation. Apply in a water volume of at least 500L/ha.</p> <p>Disease control depends on protection of the taproot from infection. <b>Note:</b> This product may delay the start of harvest by up to 8 days and shorten the harvest period, without adverse effects on final yield.</p>	Rate of EMBLEM per 1000 plants	Amount of EMBLEM per 100L of water	Volume of mixture to apply per 1000 plants	25mL	25mL	100L	25mL	12.5mL	200L	50mL	50mL	100L	50mL	25mL	200L
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Crop	Disease	States	Rate	WHP	Critical Comments
Grapevines	Phomopsis Cane and Leaf Blight ( <i>Phomopsis viticola</i> )	All States	Dilute Application 100mL/100L	-	Apply one application at 1 to 4 weeks prior to budburst after pruning to dormant spurs and/or canes. Mixing with 2% summer or winter oil may assist in coverage and penetration of the spray onto diseased wood. Adjust spray application equipment to thoroughly wet all one year old wood on the vines after pruning. Apply by dilute application spray equipment that only directs spray solution to the dormant canes and spurs on the cordons. Use of a fixed wand or short boom with single or multiple nozzles directing a narrow band of spray solution onto dormant buds, spurs and canes along the cordon wire(s) is recommended. When using orchard sprayers, ensure that only nozzles directing spray solution onto the dormant canes and spurs along the cordon wire(s) are operational. Follow the pre-budburst application of EMBLEM Fungicide with post-budburst applications (where required) of other products (e.g. dithianon or mancozeb) registered for the control of phomopsis in grapevines. Application of these products must be in accordance with the directions stated on the registered label of the product used.
	Eutypa dieback ( <i>Eutypa lata</i> )				Apply as a dormant treatment to grapevines within 24 hours of pruning. Application should be made as a directed spray in a water volume that ensures thorough coverage of the pruning cuts.
Potatoes	Late blight ( <i>Phytophthora infestans</i> )  Sclerotinia ( <i>Sclerotinia</i> spp.)	All States	250mL/ha	14 days	Apply as a protectant fungicide treatment before late blight or sclerotinia becomes established in the crop. Early application before row closure is useful for the control of sclerotinia in potatoes. Apply in a spray volume of 250 to 500L/ha using nozzles that provide a medium droplet size and repeat at 7 to 10 day intervals. Use the shorter interval when wet conditions favour late blight development. If early blight (target spot) is present, include an appropriate fungicide for the control of this disease in the spray program such as Ace® Foliar Fungicide, Fortress® 500 Fungicide or Penncozeb® 750DF Fungicide.

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

## **WITHHOLDING PERIODS:**

### **HARVEST:**

**Apples, Broccoli, Brussels sprouts, Cabbage, Cauliflower, Kohlrabi, Grapevines: NOT REQUIRED WHEN USED AS DIRECTED.**

**Potatoes: DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION.**

### **GRAZING:**

**TREATED CROPS ARE NOT TO BE GRAZED OR FED TO ANIMALS.**

**DO NOT GRAZE VINEYARDS AFTER APPLICATION.**

## **GENERAL INSTRUCTIONS**

### **Mixing**

Add the required amount of product to the partly-filled spray tank with the agitator in operation. Fill the tank with water, and continue agitation during spraying and after a stoppage.

### **Application:**

#### **Dilute Spraying - Grapevines only**

- Use a sprayer designed to apply high volumes of water up to the point of run-off and matched to the crop being sprayed.
- Set up and operate the sprayer to achieve even coverage throughout the crop canopy. Apply sufficient water to cover the crop to the point of run-off. Avoid excessive run-off.
- The required water volume may be determined by applying different test volumes, using different settings on the sprayer, from industry guidelines or expert advice.
- Add the amount of product specified in the Directions for Use table for each 100L of water. Spray to the point of run-off.
- The required dilute spray volume will change and the sprayer set up and operation may also need to be changed, as the crop grows.

## **RE-ENTRY PERIODS**

### **Apples:**

DO NOT allow entry into treated areas until the solution has dried on the soil surface. If prior entry is necessary wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), chemical resistant gloves and impervious boots. Clothing must be laundered after each day's use.

### **Brassicas:**

DO NOT allow entry into treated areas until the spray has dried. When prior entry is necessary, wear impervious footwear and if handling the treated crop wear cotton overalls buttoned to the neck and wrist, a washable hat and elbow length PVC gloves. Clothing must be laundered after each day's use.

### **Grapes:**

DO NOT enter treated areas until the spray has dried after treating grapevines to perform low, medium and high exposure activities unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

DO NOT enter treated areas for 7 days after treating grapevines to perform very high exposure activities such as grape girdling, unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

### **Potatoes:**

DO NOT enter treated areas until the spray has dried after treating potatoes, unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

## **FUNGICIDE RESISTANCE WARNING**

### **GROUP 29 FUNGICIDE**

For fungicide resistance management the product is a Group 29 fungicide. Some naturally occurring individual fungi resistant to the product and other Group 29 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 or other Group 29 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, Nufarm Australia Limited accepts no liability for any losses that may result from the failure of this product to control resistant fungi.

### **Compatibility**

EMBLEM is compatible with Ace, Fortress and Penncozeb 750DF, as well as a wide range of agricultural chemicals. A jar test with local water should be conducted before using any new tank mixtures with EMBLEM. For further information on compatibility please contact your local reseller or Nufarm Australia Limited representative.

### **PROTECTION OF LIVESTOCK**

DO NOT graze or feed treated crops to animals. DO NOT graze vineyards after application.

### **PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT**

Very toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers.

### **PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS**

DO NOT apply under weather conditions, or from spraying equipment that may cause drift onto nearby plants/crops, cropping lands or pastures.



[spraywisedecisions.com.au](http://spraywisedecisions.com.au) is an online weather forecasting program and is recommended for use when planning your pesticide application.

### **STORAGE AND DISPOSAL**

Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight.

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 500mm 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. Will irritate the eyes and skin. Avoid contact with eyes and skin. Repeated exposure may cause allergic disorders. When opening the container and preparing product for use, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length chemical resistant gloves and goggles. When using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow length chemical resistant gloves. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, goggles and contaminated clothing.

### **FIRST AID**

If poisoning occurs, contact a doctor or Poisons Information centre. Phone Australia 131 126. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

### **ADDITIONAL STATEMENTS (WHS REGULATIONS 2011)**

**May cause an allergic skin reaction. Causes serious eye damage. Harmful if inhaled. Suspected of damaging fertility or the unborn child.** Wear protective gloves, clothing, eye and face protection. Avoid breathing mist and spray. Contaminated work clothing should not be allowed out of the workplace. Use only outdoors or in a well-ventilated area. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

## **SAFETY DATA SHEET**

For further information refer to the Safety Data Sheet (SDS), which can be obtained from your supplier or from the Nufarm website – [nufarm.com.au](http://nufarm.com.au)

**In case of emergency: Phone 1800 033 498** Ask for shift supervisor. Toll free 24 hours.

## **CONDITIONS OF SALE**

“Any provisions or rights under the Competition and Consumer Act 2010 or relevant state legislation which cannot be excluded by those statutes or by law are not intended to be excluded by these conditions of sale. Subject to the foregoing, all warranties, conditions, rights and remedies, expressed or implied under common law, statute or otherwise, in relation to the sale, supply, use or application of this product, are excluded. Nufarm Australia Limited and/or its affiliates (“Nufarm”) shall not accept any liability whatsoever (including consequential loss), or howsoever arising (including negligence) for any damage, injury or death connected with the sale, supply, use or application of this product except for liability which cannot be excluded by statute.”

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