

**DANGER**

**KEEP OUT OF REACH OF CHILDREN**

**READ SAFETY DIRECTIONS BEFORE OPENING OR USING**

 **COBRA**<sup>®</sup>

## **FUNGICIDE**

**Contains:** 90 g/litre dimethomorph & 450 g/litre chlorothalonil  
in the form of a suspension concentrate.

**A systemic and protectant fungicide  
to control various diseases in potatoes,  
onions and lettuce**


**NZ** Trialled  
Developed  
Manufactured

**arxada**

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Approved pursuant to the HSNO Act 1996, No HSR001672. See [www.epa.govt.nz](http://www.epa.govt.nz) for approval controls.

Registered pursuant to the ACVM Act 1997, No. P007351. See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.

	<b>GHS CLASSIFICATION</b> Acute inhalation toxicity Cat. 2 Serious eye damage Cat. 1 Skin sensitisation Cat. 1 Carcinogenicity Cat. 2 Specific target organ toxicity (repeated exposure) Cat. 1  Hazardous to soil organisms Hazardous to terrestrial vertebrates Hazardous to the aquatic environment acute & chronic Cat. 1	<b>HAZARD STATEMENT</b> Fatal if inhaled. Causes serious eye damage. May cause an allergic skin reaction. Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure.  Hazardous to soil organisms Hazardous to terrestrial vertebrates. Very toxic to aquatic life with long lasting effects.
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**FIRST AID:** IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call the National Poisons Centre 0800 POISON (0800 764 766) or a doctor/physician/first aider.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call the National Poisons Centre/doctor/physician/first aider.  
 IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.  
 IF exposed or concerned: Get medical attention.  
**PERSONAL PROTECTION:** Obtain special instructions before use. Do not breathe mist/vapours/spray. Use only outdoors or in a well-ventilated area. [In case of inadequate ventilation] wear respiratory protection. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke while using this product. Wash all exposed external body areas thoroughly after handling.  
**STORAGE:** Store locked up. Store in original container, tightly closed and in a dry, cool area away from foodstuffs. Store in accordance with NZS 8409 Management of Agrichemicals.  
**DISPOSAL:** Avoid contamination of any water supply with product or empty container. Triple rinse empty container placing rinse water in the spray tank. If recycling, discard cap and deliver clean container to an Agrecovery depot or crush and bury in an approved landfill. Dispose of product only by using according to this label, or at an approved landfill or disposal facility.  
**SPILLAGE:** Wear appropriate protective clothing. Exclude all bystanders from the vicinity of the spill and prevent material from entering waterways. Contain liquid spills and absorb with inert material and place in waste containers. Wash area with water and absorb with further inert material. Dispose of waste safely in an approved landfill.  
**SAFETY DATA SHEET:** Additional information is listed in the Safety Data Sheet available from Arxada NZ Limited or [www.arxada.co.nz](http://www.arxada.co.nz)  
**QUALIFICATION REQUIREMENTS:** Persons mixing, loading, applying, or otherwise handling Cobra must meet qualification requirements set out in the EPA Hazardous Substances (Hazardous Property Controls) Notice 2017.  
**RECORD KEEPING:** Records of use must be kept in accordance with the current Health and Safety at Work (Hazardous Substances) Regulations whenever Cobra is used.  
**ADDITIONAL HSNO CONTROLS:** The application rate for Cobra is: 2 litres/ha, applied every 10-14 days, with no more than 4 applications per season. This equates to 0.95 kg chlorothalonil per hectare applied in each application.

**PLEASE READ THE ENTIRE LABEL BEFORE MIXING OR APPLYING. SHAKE OR STIR WELL BEFORE USE.**

**It is an offence to use this product on animals.**

**DIRECTIONS FOR USE**

CROP	DISEASE	RATE	DIRECTIONS FOR USE
Potatoes	Early blight, <i>Alternaria solani</i> , Late blight <i>Phytophthora infestans</i>	2 litres/ha	Use as a foliar spray in sufficient water to achieve uniform coverage. Apply as a preventative application and repeat at 10-14 day intervals. Use the closer interval during periods of intense disease pressure especially in the period prior to flowering.
Onions	Downy mildew, <i>Peronospora destructor</i>	2 litres/ha plus Barrachlor 420 ml/ha	Use as a foliar spray in sufficient water to achieve uniform coverage. Apply as a preventative application and repeat at 10 day intervals during active crop growth when conditions of temperature and high humidity favour disease development.
Lettuce	Downy mildew, <i>Bremia lactucae</i> Ring spot (Anthracnose), <i>Microdochium panattonianum</i>	2 litres/ha plus a protectant fungicide at label rates  2 litres/ha plus Barrachlor 850 ml/ha	Use as a foliar spray in sufficient water to achieve uniform coverage. Apply two consecutive applications of Cobra 7 to 10 days apart when conditions favour disease development but before symptoms are evident any time from seedling emergence. Use the closer interval when conditions are creating a high disease risk. Use a protectant such as mancozeb at other times.

**MODE OF ACTION:** Cobra provides the systemic activity of dimethomorph and the contact protectant activity of chlorothalonil. Dimethomorph penetrates the plant and moves systemically upwards to protect leaves and stems. Localised systemic activity ensures adequate translaminar movement within the foliage. Chlorothalonil is a protectant fungicide dependent on complete coverage of foliage to prevent disease establishment.

**MIXING:** Pour the correct amount of Cobra into the partly filled tank and while agitating add the remainder of the water. Agitation is required during spraying and after any stoppages. Use the spray mixture within 24 hours of mixing.

**APPLICATION:** Apply in sufficient water to ensure thorough coverage of all foliage. As a guide use 500 litres/ha with ground broadcast equipment and a minimum of 200 litres/ha for aerial application.

**RAINFALL:** Apply to dry foliage and when no rain is expected for at least 2 hours following treatment.

**COMPATIBILITY:** May be tank mixed with most commonly used insecticides and fungicides. Do not mix with strongly alkaline or acidic materials.

**MANDATORY DIRECTIONS:** As Cobra contains minute quantities of HCB, a compound that can be taken up by grazing stock to give unacceptable residues in meat and milk, by law the following restrictions on the use of the product must be observed: DO NOT graze treated crops in the field. CULTIVATE areas thoroughly BEFORE ALLOWING ANIMALS TO ACCESS (i.e. not direct drilling or other minimum tillage techniques) and before sowing pasture or any animal feed crop. DO NOT feed any part of a treated crop to stock other than harvested mature bulb onions.

**It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Levels for Agricultural Compounds.**

**WITHHOLDING PERIOD:** Potatoes, onions and lettuce - 14 days.

**RESISTANCE MANAGEMENT:** **GROUP 40+M5 FUNGICIDE** Cobra contains dimethomorph, a carboxylic acid amide fungicide with the inhibition of cellulose synthase mode of action, plus chlorothalonil a fungicide from the chloronitrile group with the multi-site contact mode of action. Despite containing fungicides from two mode of action groups, naturally occurring strains of disease causing fungi resistant to the carboxylic acid amides may exist or develop. These resistant strains may dominate when Cobra or other related group 40 fungicides are used excessively. To minimise this risk use strictly in accordance with label instructions and resistance management strategies that may exist for particular diseases on this label. When disease risk is high, apply two close interval applications of Cobra, followed by applications of either protectant fungicides or fungicides from another chemical group. DO NOT apply more than 4 applications of Cobra in one season. Since Cobra contains chlorothalonil, a broad spectrum protectant fungicide, further tank mixing is not required. For further information see: [www.nzpps.org/resistance](http://www.nzpps.org/resistance).

**NOTICE TO BUYER:** The manufacturer and vendors of Cobra warrant the formulation to contain the specified active ingredient within accepted tolerance but make no warranty of any kind on the uses of material and accept no responsibility, whether the material is used in accordance with the label directions or not.

**REGISTERED TO:** Arxada NZ Limited, Hudson Rd,  
New Plymouth, NZ. Tel: 06 755-9234 Fax: 06 755-1174  
**EMERGENCY PHONE: 0800 CHEMCALL 0800 243 622**

BATCH NO:  
  
D.O.M:

