



# MSS WAREFOG 25



MAFF 06776

Contains 60% w/v of chlorpropham.

**A hot fogging concentrate for the control of sprouting of ware potatoes in store.**

**COMPLIANCE WITH THE FOLLOWING CONDITIONS OF USE AND ALL SAFETY PRECAUTIONS MARKED\* IS A LEGAL REQUIREMENT.**

FOR USE ONLY AS A PLANT GROWTH REGULATOR IN FOOD STORAGE PRACTICE.

**For use on ware potatoes in store only.**

Crop: Ware potatoes.

Maximum individual dose: 25 ml/tonne of tubers in bulk stores.

30 ml/tonne of tubers in boxed stores.

Latest time of application: 21 days before removal from store for sale or processing.

A minimum interval of 45 days must be observed between applications.

Whilst this product must be used within the rates here specified, note that if the total dose applied (from any combination of products containing chlorpropham) is greater than 36 g chlorpropham/tonne, then the treated potatoes must only be used for commercial processing.

**Specific restrictions:**

Box stores - the maximum individual dose must not exceed 30 ml product/tonne potato/90 days storage.

Bulk stores - the maximum individual dose must not exceed 25 ml product/tonne potato/90 days storage.

**READ ALL OTHER SAFETY PRECAUTIONS AND DIRECTIONS BEFORE USE.**

WAREFOG 25 contains 54% w/w chlorpropham in N-methyl-2-pyrrolidone.



**HARMFUL**



**DANGEROUS FOR THE ENVIRONMENT**

Harmful: Danger of serious damage to health by prolonged exposure if swallowed irritating to eyes and skin.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Wear suitable gloves.

Avoid contact with skin and eyes.

Keep out of reach of children.

In case of fire and/or explosion do not breathe fumes.

This material and its container must be disposed of as hazardous waste.

Avoid release to the environment. Refer to special instructions/safety data sheet.

To avoid risks to man and the environment comply with the instructions for use.

## 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, HOOD), RUBBER BOOTS, EYE PROTECTION (GOGGLES) AND SUITABLE RESPIRATORY PROTECTIVE EQUIPMENT** when applying the product.

**\*WEAR SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD)** when handling the concentrate.

However engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

**DO NOT BREATHE FOG.**

**WASH CONCENTRATE** from skin or eyes immediately.

**WHEN USING DO NOT EAT, DRINK OR SMOKE.**

**WASH HANDS AND EXPOSED SKIN** before meals and after work.

**THE STORE MUST NOT BE ENTERED DURING TREATMENT.**

**\*KEEP UNPROTECTED PERSONS OUT OF** treated areas for at least 12 hours after application.

### Consumer Protection

**\*DO NOT REMOVE POTATOES FOR SALE OR PROCESSING FOR AT LEAST 21 DAYS AFTER APPLICATION.**

### Environmental Protection

**\*DO NOT CONTAMINATE SURFACE WATERS OR DITCHES WITH CHEMICAL OR USED CONTAINER.**

### Storage and disposal

**KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.**

**KEEP OUT OF REACH OF CHILDREN.**

**KEEP IN ORIGINAL CONTAINER**, tightly closed, in a safe place.

**WASH OUT CONTAINER THOROUGHLY** and dispose of safely.

**DO NOT RE-USE CONTAINER** for any purpose.

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

**CONTENTS: 25 Litres e BATCH No:**

Whyte Agrochemicals Limited, Marlborough House, 298 Regents Park Road,  
Finchley, London. N3 2UA. Emergency Telephone: 01484 842451.



# MSS WAREFOG 25



## DIRECTIONS FOR USE

### RATE OF APPLICATION FOR BULK POTATO STORES

Potatoes cannot be treated successfully in stores without proper ventilation.

An initial application of 25 ml MSS WAREFOG 25/tonne can control sprouting for 90-100 days. Repeat treatments should be made between the 80th and 100th day following the previous application. Regular inspection of the potato eyes should be made to determine the best timing. Subsequent rates of application depend upon the anticipated length of storage.

If it is certain to be at least a further 90 days then the full rate of 25 ml/tonne can be used. If the storage period is uncertain then a half dose rate, of 12.5 ml/tonne may be used, and repeated after 45 days if necessary.

The full rate of MSS WAREFOG 25 remains active for 90-100 days. In bulk stores the fog is directed into the ventilation system beneath the stored potatoes and at a rate necessary to give a slow seepage of fog above the stack.

Ventilation ducts should not be more than 2 m (6 ft) apart in bulk potato stores, opening directly to the outside or via a main duct. Potatoes should not be stacked more than 3 m (10 ft) high.

### RATE OF APPLICATION FOR POTATOES STORED IN WOODEN CRATES OR BOXES

An initial application of 30 ml MSS WAREFOG 25/tonne can control sprouting for 90-100 days. Repeat treatments should be made between the 80th and 100th day following the previous application. Regular inspection of the potato eyes should be made to determine the best timing. Subsequent rates of application depend upon the anticipated length of storage.

If it is certain to be at least a further 90 days then the full rate of 30 ml/tonne can be used. If the storage period is uncertain then a half dose rate, of 15 ml/tonne may be used, and repeated after 45 days if necessary.

The full rate of MSS WAREFOG 25 remains active for 90-100 days. When potatoes are stored in boxes these should be in groups not exceeding 4 boxes wide by 5 boxes long and not exceeding three quarters of the available height of the store. The groups of boxes should be separated by 50 cm (18 in) free space all round to allow MSS WAREFOG 25 to circulate freely over the boxes.

In box stores the building must be airtight with all vents closed during treatment and for four hours afterwards.

## CAUTIONS

The store must not be entered during treatment.

Treated areas must not be entered for at least 12 hours following treatment.

**IT IS IMPORTANT to treat the potatoes before the potato eyes open to obtain best results.**

Apply by means of any thermal fogging apparatus capable of giving a controlled dry fog.

Blockage of air spaces between tubers prevents adequate circulation of vapour with consequent loss of treatment efficacy.

## METHOD OF APPLICATION

(a) Permanent stores with forced draught ventilation:

### I. Rotary atomiser

Equipment based on the use of revolving discs such as the Microsol apparatus, will produce a fine mist suitable for dispersing MSS WAREFOG 25 in stored potatoes. The delivery rate of the equipment would be within the range of 4 to 6 litres (6 to 10 pints) per hour.

### II. Swing Fog vapourizers

This equipment produces a fine mist or vapour and when used according to the manufacturer's instructions will deliver between 9 and 27 litres (2 and 6 gallons) per hour. The recommended rate for potato treatment is 18 litres (4 gallons) per hour.

### III. Typhoon Applicator

This equipment consists of a low speed fan blowing a stream of air over a vapourizing unit. The chemical flow rate may be adjusted and is measured by drops per minute. MSS WAREFOG 25 should be applied at a flow rate of 60 to 80 drops per minute.

### IV. Compressed Air atomisers

Each atomiser contains a sufficient dosage for up to 100 metric tonnes. The nozzle is placed in the air inlet duct for treatment.

**(b) Temporary potato stores. All stores must be ventilated in order to obtain good results.**

"Dickie Pie" with two A ducts in the bottom and one along the top with chimneys. Assuming 7 tonnes per metre (7 tons per yard) run, the total length should be not more than 60 metres (60 yards). The ducts should be blocked mid-way and a portable fan may be used if necessary to help the natural "draw" through the pie.

Ordinary graves or clamps. Application must be through a bottom duct, the total length being not more than 150 metres (150 yds) and blocked mid-way.

### WHEN AND HOW TO APPLY

Only clean, mature and disease free potatoes should be stored and treated. Care should be taken to remove soil and debris before loading into store.

The first step after loading is the removal of surface moisture on the potatoes, this is accomplished by proper ventilation and the natural warming up process. MSS WAREFOG 25 must not be applied until the potatoes have been in store for at least 6 weeks.

**AN INTERVAL OF 21 DAYS MUST ELAPSE BETWEEN TREATMENT AND SALE FOR CONSUMPTION.**

### NOTES:

Treatment of bulk indoor stores may result in poor sprout control in the top 30 cm of the store.

Normal ventilation may be resumed in both bulk and box stores 12 hours after treatment.

Temperatures above 10°C after treatment should be avoided as this will reduce the period of sprout suppression. The optimum temperature for ware potatoes is 7°C (45°F) and for crisping potatoes 9°C (48°F).

### RESTRICTIONS

1. MSS WAREFOG 25 must not be used on potatoes for seed.
2. Seed crops of any type should not be stored in buildings being treated with MSS WAREFOG 25. There is also a risk of damage to malting barley, seed grain or other type of seed which is handled or stored in buildings previously treated with MSS WAREFOG 25.
3. Store in frost free conditions.

### CONDITIONS OF SUPPLY

All goods supplied are manufactured to our usual standard of quality, but all conditions and warranties, statutory or otherwise, as to the quality or fitness for any purpose of the goods are excluded and no liability (save as to the liability to replace defective goods herein provided) will be accepted by us for any damage, loss or injury whatsoever arising out of or in connection with the goods or drums or other containers thereof, or from the storage, handling, applications or use thereof. In the case of alleged defects in the manufacture of the goods proved by the customer to our satisfaction we will at our expense replace or otherwise remedy the defective goods. In particular liability in sort arising in or out of the manufacture, distribution, sale or use of the product is hereby expressly excluded. All our goods are sold and supplied on the terms contained in our standard Conditions of Sale (of which the above is part) which shall prevail over any other terms and which may be inspected on request.

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