

GARRISON

MAPP 18174

GARRISON contains 225 g/litre (22.5% w/w) chlorpyrifos-methyl as an emulsifiable concentrate. A broad-spectrum insecticide used for the control of insects and mites that pose infestation problems to stored cereal grains and grain stores. The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

Product Identifier according to Art. 18 of Reg. (EC) No 1272/2008

[CLP]: Chlorpyrifos-methyl; Hydrocarbons, C10-C13, aromatics, <1% naphthalene;

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DANGER

MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.

CAUSES SKIN IRRITATION.

MAY CAUSE AN ALLERGIC REACTION.

MAY CAUSE DROWSINESS OR DIZZINESS.

VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

Avoid breathing vapours.

Wear protective gloves/clothing/eye/face protection.

IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.

IF ON SKIN: Wash with plenty of soap and water.

Do NOT induce vomiting.

Collect spillage.

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

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



SYMPTOMS OF POISONING: These may include excessive sweating, headache, weakness, fainting and giddiness, nausea, stomach pains, vomiting, small pupils, blurred vision, muscle twitching.

FIRST AID: If any of the above symptoms occur, particularly if there is known contamination: STOP WORK. Remove contaminated clothing. Wash exposed skin and hair. Prevent all exertion. Call a doctor AT ONCE and show this label.

GUIDE TO DOCTOR: GARRISON contains chlorpyrifos-methyl, an anticholinesterase organophosphorus compound.

SPECIFIC TREATMENT: 1) IN ALL CASES AND AS EARLY AS POSSIBLE inject atropine sulphate 2mg or pro rata for children and repeat (if necessary) until fully atropinised. 2) IF AVAILABLE administer pralidoxime 1g by intra-muscular injection. Repeat 3-4 hours.

OTHER MEASURES: 1) Keep airway clear. 2) Watch respiration - intubation with endotracheal tube, or tracheotomy may be necessary in conjunction with artificial respiration. 3) Put patient at complete rest in hospital for 24 hours at least.

CONFIRMATION OF DIAGNOSIS: By estimating cholinesterase activity (5ml blood, unhaemolysed, collected in an anticoagulant).

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SAFETY PRECAUTIONS

Operator protection: Chlorpyrifos-methyl is an anticholinesterase organophosphorus compound. **DO NOT USE** if under medical advice NOT to work with such compounds. WEAR SUITABLE PROTECTIVE CLOTHING (IMPERMEABLE COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACE SHIELD) when handling the concentrate. WEAR SUITABLE PROTECTIVE CLOTHING (IMPERMEABLE COVERALLS), SUITABLE PROTECTIVE GLOVES AND RUBBER BOOTS when applying to grain. WEAR SUITABLE PROTECTIVE CLOTHING (IMPERMEABLE COVERALLS), SUITABLE PROTECTIVE GLOVES, RUBBER BOOTS AND FACE PROTECTION when applying the product as a fabric treatment. WASH ALL PROTECTIVE CLOTHING after use. WHEN USING DO NOT EAT, DRINK OR SMOKE. WASH CONCENTRATE from skin or eyes immediately. DO NOT BREATHE IN SPRAY. If necessary for personal comfort, wear a mask. WASH HANDS AND EXPOSED SKIN before meals 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 or roads. TO PROTECT AQUATIC ORGANISMS respect an unsprayed buffer zone of 5 metres to surface water. DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5 metres of the top of the bank of a static or flowing water body, or within 1 metre of the top of a ditch which is dry at the time of application. Aim spray away from water. THIS PRODUCT IS NOT ELIGIBLE FOR BUFFER ZONE REDUCTION UNDER THE LERAP HORIZONTAL BOOM SPRAYERS SCHEME. LERAP scheme not applicable for the Republic of Ireland. DANGEROUS TO BEES. To protect bees and other pollinating insects do not apply to crop plants when in flower. Do not use where bees are actively foraging. **Storage and disposal:** 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.

IMPORTANT INFORMATION
FOR USE ONLY AS AN AGRICULTURAL INSECTICIDE AND IN FOOD STORAGE PRACTICE

Crops/Situation	Maximum Individual Dose	Maximum Number of Treatments	Latest time of application
Grain	See "Other Specific Restrictions"	One per batch	-
Crop handling and storage structures	See "Other Specific Restrictions"	One prior to use of storage facility/machinery	-

Other Specific Restrictions: The following maximum concentrations must not be exceeded: Grain: For immediate eradication, use at 10ml per tonne of grain in up to 1.5L of water. No withholding period required at this rate. For long term storage protection, use at 20ml per tonne of grain in up to 1.5L of water. A minimum period of 90 days must elapse between treatment of grain and its consumption or processing. Crop handling and storage structure: 200ml product/10L of water/100 square metres. DO NOT RE-USE container for any purpose. **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.**



PROTECT FROM FROST. PROFESSIONAL USE ONLY
Triple Rinse Containers, Puncture and Invert to Dry at time of Use

This product has been re-bottled at Grotech Production Limited, Britannia Road, Goole, DN14 6ET

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. **RESISTANCE:** The use of Garrison can not be guaranteed to give complete control over certain strains of saw-toothed grain beetles, flour mites and rust-red flour beetles which are found to be resistant to products containing organophosphorus compounds. Resistance recommendation: Do not use products with the same mode of action continuously for a 2-3 year period.

Mixing: Fill spray tank to a quarter full with clean water and agitate, adding the correct quantity of Garrison and continue to fill. Maintain agitation whilst spraying.

Pests (incl. Beetles/Weevil Mites & Moths): Grain Admixture: Saw-toothed grain beetle (*Oryzaephilus surinamensis*), merchant grain beetle (*Oryzaephilus mercator*), Grain weevil (*Sitophilus granarius*), Rice weevil (*Sitophilus oryzae*), Foreign grain beetle (*Ahasverus advena*), Rust-red grain beetle (*Cryptolestes ferrugineus*), Rust-red flour beetle (*Tribolium castaneum*), Confused flour beetle (*Tribolium confusum*), Common flour mite (*Acarus siro*), Cosmopolitan food mite (*Lepidoglyphus* (*Glyciphagus*) destructor), Copra mite (*Tyrophagus putrescentiae*), Mediterranean flour moth (*Ephestia elutella*) and Indian meal moth (dried fruit moth) (*Plodia interpunctella*). Structural Treatment: Same as for Grain Admixture - with the addition of Lesser grain borer (*Rhyzopertha dominica*).

Application Rate: Grain Admixture: 10 - 20ml per tonne. For instant elimination of grain storage pests, apply Garrison at 10ml per tonne of grain in 0.75 to 1.5L of water. For continuous storage protection: apply Garrison at 20ml per tonne of grain in 0.75 to 1.5L of water. Structural Treatment: 200ml per 100 square metres.

Water Volume: Grain Admixture: 0.75 to 1.5L of water per tonne (follow guidelines set in 'Conveyor rates'). Structural Treatment: 5 - 10L water per 100 square metres

Timing: Grain Admixture: Spray on to the grain after it has been prepared for storage (cleaned, cooled and dried to preferably 14% moisture) but before it is stored. Use spray equipment designed for this purpose.

Structural Treatment: Clean old grain and dust from the empty store prior to harvest. Using a vacuum cleaner, clean all grain equipment and the store. Spray all surfaces, including the floor and roof, taking particular care to treat all cracks and crevices which may contain insects. Ideally one month before the store is to be filled to allow sufficient contact between insect and insecticide. Apply using: Pneumatic/hydraulic knapsack with a spray fan nozzle; Motorised knapsack; Tractor operated spray lance (or equivalent). Apply 200ml Garrison in 5L water per 100 square metres. If required for porous surfaces the spray volume may be increased to 10L water per 100 square metres.

Maximum number of applications: Grain Admixture: One per batch of grain. Structural Treatment: Once before grain is stored.

Conveyor Rates: Grain Admixture: In order to obtain optimum results, it is important that the grain is evenly sprayed. When applying, adjust the conveyor to create a shallow and even grain flow. However, the level of control may be reduced by unsatisfactory and patchy coverage. Grain conveyor rates below 5 tonnes per hour: apply in 1.5L of water per tonne of grain. For rates above: apply in 0.75L of water per tonne of grain. Continuous air extraction cooling from the base could deplete the insecticide on the grain surface, lowering its effectiveness against grain store pests, especially mites. Structural Treatment: N/A

N.B: Grain Admixture: TREATED GRAIN MUST NOT BE USED FOR SEED Ensure no wildlife is present before treatment. No withholding interval is required at 10ml per tonne. However, a 90-day withholding interval is required at 20ml per tonne. Structural Treatment: Structural treatment with Garrison does not require a withholding interval.



1 Litre e