

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 (FACESHIELD) 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 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.

DO NOT RE-USE CONTAINER for any purpose.

(*Disposable filtering face mask dust respirator to BS6016 Type 2. Alternatively any dust respirator to BS2091)

Contains chlorpyrifos-methyl. May produce an allergic reaction.

 Dow AgroSciences

Reldan® 22

INSECTICIDE

Product Registration Number: MAPP 16710/PCS No. 03623

An emulsifiable concentrate containing 225 g/litre (22.5% w/w) chlorpyrifos-methyl.

A broad-spectrum insecticide for the control of INSECTS and MITES infesting 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 (UK Only).



Product Identifier according to Art. 18 of Reg. (EC) No 1272/2008 [CLP]: Chlorpyrifos-methyl; Hydrocarbons, C10-C13, aromatics, <1% naphthalene; Hydrocarbons, C10, aromatics, <1% naphthalene

DANGER

MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.

CAUSES SKIN IRRITATION.

MAY CAUSE AN ALLERGIC SKIN 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.

MAPP 16710 / PCS 03623



IMPORTANT INFORMATION.

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

Crops/Situation:	Grain, crop handling and storage structures
Maximum Individual Dose:	}
Maximum Number of Treatments:	} Full details are given in the Important
Latest Time of Application:	} Information on the attached leaflet
Other Specific Restrictions:	}

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.

READ DIRECTIONS FOR USE ON ATTACHED LEAFLET.

PROTECT FROM FROST.

PROFESSIONAL USE ONLY

Triple Rinse Containers, Puncture and Invert to Dry at time of Use

1 Litre e

Dow AgroSciences Limited

CPC2 Capital Park, Fulbourn, Cambridge, CB21 5XE.

Telephone: +44 (0)1462 457272 Fax: +44 (0)1462 426605

24 Hour Emergency Telephone Number: + 44 (0) 1553 761251

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This label is compliant with the CPA Voluntary Initiative Guidance (UK Only)



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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 doctor AT ONCE and show him this label.

GUIDE TO DOCTOR

RELDAN 22 contains chlorpyrifos-methyl, an anticholinesterase organophosphorus compound.

SPECIFIC TREATMENT:

1. IN ALL CASES AND AS EARLY AS POSSIBLE inject atropine sulphate 2 mg or pro rata for children and repeat (if necessary) until fully atropinised.
2. IF AVAILABLE administer pralidoxime 1 gramme by intra-muscular injection. Repeat after 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 (5 mL blood, unhaemolysed, collected in an anticoagulant).

Further advice

Dow AgroSciences Limited, Latchmore Court, Brand Street, Hitchin, Hertfordshire SG5 1NH

Tel: +44 (0) 1462 457272 Fax: +44 (0) 1462 426605

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or from local National Poisons Information Service

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.

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 10 millilitres per tonne of grain in up to 1.5 litres of water. No withholding period required at this rate.

For long term storage protection use at 20 millilitres per tonne of grain in up to 1.5 litres of water. A minimum period of 90 days must elapse between treatment of grain and its consumption or processing.

Crop handling and storage structure: 200 mL product/10 litres water/100 square metres.

DO NOT RE-USE container for any purpose.

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RESISTANCE

GRAIN ADMIXTURE/PRE-HARVEST HYGIENE

Strains of saw-toothed grain beetle and flour mite resistant to some organophosphorus compounds are widespread and resistant strains of rust-red flour beetle have also been found. Where strains resistant to products containing organophosphorus compounds are present RELDAN 22 is unlikely to give satisfactory control.

To reduce the incidence of resistance, it is recommended that the same mode of action is not used continuously over 2-3 years and that if a product is used for treating the empty grain store a different mode of action is used to treat any grain stored in the building. If failure of a particular product is noted, a different mode of action should be used for subsequent treatments in the grain store.

MIXING

Quarter fill the spray tank with clean water and begin agitation. Add the required quantity of RELDAN 22 insecticide to the tank and complete filling. Continue agitation until spraying is completed.

GRAIN ADMIXTURE

Pests	<p>BEETLES/WEEVILS: Saw-toothed grain beetle (<i>Oryzaephilus surinamensis</i>), Merchant grain beetle (<i>Oryzaephilus mercator</i>), Grain weevil (<i>Sitophilus granarius</i>), Rice weevil (<i>Sitophilus oryzae</i>), Foreign grain beetle (<i>Ahasverus advena</i>), Rust-red grain beetle (<i>Cryptolestes ferrugineus</i>), Rust-red flour beetle (<i>Tribolium castaneum</i>) and Confused flour beetle (<i>Tribolium confusum</i>)</p> <p>MITES: Common flour mite (<i>Acarus siro</i>), Cosmopolitan food mite (<i>Lepidoglyphus (Glycyphagus) destructor</i>) and Copra mite (<i>Tyrophagus putrescentiae</i>)</p> <p>MOTHS: Mediterranean flour moth (mill moth / flour moth) (<i>Ephestia kuehniella</i>), Warehouse (cocoa, tobacco) moth (<i>Ephestia elutella</i>) and Indian meal moth (dried fruit moth) (<i>Plodia interpunctella</i>)</p>
Application Rate	<p>10 to 20 millilitres per tonne.</p> <p>If immediate eradication of grain storage pests is required use RELDAN 22 at 10 millilitres per tonne of grain in 0.75 to 1.5 litres of water.</p> <p>If long term storage protection is required use RELDAN 22 at 20 millilitres per tonne of grain in 0.75 to 1.5 litres of water</p>
Water Volume	0.75 to 1.5 litres of water per tonne (refer to 'Conveyor speed')
Timing	Apply RELDAN 22 to harvested grain after it has been dried (preferably below 14% moisture content), cooled and cleaned and ideally before it goes into store. Apply RELDAN 22 using a suitable insecticide applicator with continuous agitation of spray solution.
Maximum Number of Applications	1 per batch
Conveyor speed:	Ensure good spray coverage of the grain and adjust the conveyor to produce a shallow, even flow of grain at the point of application. Poor or uneven coverage may reduce the level of control. For grain conveyor rates below 5 tonnes per hour, apply RELDAN 22 in 1.5 litres of water per tonne of grain. At rates above 5 tonnes per hour, apply RELDAN 22 in 0.75 litres of water per tonne of grain. Treatment of grain that is being cooled by continuous extraction of air from the base may lead to depletion of insecticide at the grain surface which will lower the efficacy at the grain store pests, particularly mites.
Note	<p>DO NOT USE TREATED GRAIN FOR SEED.</p> <p>Exclude wildlife from buildings during treatment.</p> <p>At 10 millilitres per tonne of grain no withholding period is required.</p> <p>At 20 millilitres per tonne of grain a withholding period of 90 days must be observed.</p>

PRE-HARVEST HYGIENE

Pests	<p>BEETLES/WEEVILS: Saw-toothed grain beetle (<i>Oryzaephilus surinamensis</i>), Merchant grain beetle (<i>Oryzaephilus mercator</i>), Grain weevil (<i>Sitophilus granarius</i>), Rice weevil (<i>Sitophilus oryzae</i>), Foreign grain beetle (<i>Ahasverus advena</i>), Rust-red grain beetle (<i>Cryptolestes ferrugineus</i>), Rust-red flour beetle (<i>Tribolium castaneum</i>), Lesser grain borer (<i>Rhyzopertha dominica</i>) and Confused flour beetle (<i>Tribolium confusum</i>)</p> <p>MITES: Common flour mite (<i>Acarus siro</i>), Cosmopolitan food mite (<i>Lepidoglyphus (Glycyphagus) destructor</i>) and Copra mite (<i>Tyrophagus putrescentiae</i>)</p> <p>MOTHS: Mediterranean flour moth (mill moth / flour moth) (<i>Ephestia kuehniella</i>), Warehouse (cocoa, tobacco) moth (<i>Ephestia elutella</i>) and Indian meal moth (dried fruit moth) (<i>Plodia interpunctella</i>)</p>
Application Rate	200 millilitres per 100 square metres.
Water Volume	5 to 10 litres of water per 100 square metres.
Timing	<p>When the grain store is empty prior to harvest, clean out old grain, dust and debris as this may harbour insects. Thoroughly clean the grain handling equipment and grain store using a suitable vacuum cleaner or by thorough sweeping. Spray all structural surfaces of the empty grain store (including the roof and floor) and grain handling machinery taking care to treat all crevices and joints including dead spaces around machinery. Where possible this should be done one month before filling the store to permit adequate exposure of the insect population to the insecticide.</p> <p>Apply RELDAN 22 by either:</p> <ul style="list-style-type: none"> Pneumatic or hydraulic knapsack sprayer with fan spray nozzle Motorised knapsack sprayer Tractor operated spray lance (or contractor's equivalent equipment) <p>Apply 200 millilitres of RELDAN 22 in 5 litres of water per 100 square metres. Spray volume can be increased to 10 litres of water per 100 square metres on porous surfaces if necessary (for example concrete, brick and unpainted wood).</p>
Maximum Number of Applications	1 prior to use of storage facility/machinery
Note	There is no withholding period associated with the use of RELDAN 22 for pre-harvest hygiene.

Dow AgroSciences Conditions of Supply

All goods supplied by us are of high grade and we believe them to be suitable but, as we cannot exercise control over their storage, handling, mixing or use, or the weather conditions before, during or after application which may affect the performance of the goods, all conditions and warranties, statutory or otherwise, as to the quality or fitness for any purpose of our goods are excluded. No responsibility will be accepted by us or re-sellers for any failure in performance, damage or injury whatsoever arising from their storage, handling, application or use. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in the use of such goods.

UK:

To access the Safety Data Sheet for this product scan the QR code or use the weblink below:



<http://uk.dowagro.com/wp-content/uploads/RELDAN-SDS.pdf>

Alternatively contact your supplier

REPUBLIC OF IRELAND:

To access the Safety Data Sheet for this product scan the QR code or use the weblink below:



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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.

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Maximum Individual Dose: }

Maximum Number of Treatments: } Full details are given in the Important

Latest Time of Application: } Information on the attached leaflet

Other Specific Restrictions: }

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