

LORSBAN* WG

INSECTICIDE

Product Registration Number: MAPP 11962.

A water dispersible granule containing 75% w/w chlorpyrifos.

A broad-spectrum insecticide controlling many pests of HORTICULTURAL crops.

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

READ DIRECTIONS FOR USE ON ATTACHED LEAFLET.

Pack size: 500 g to 1 kg sachet

Registered by:

Dow AgroSciences Limited

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This label is compliant with the CPA Voluntary Initiative Guidance.





HARMFUL



**DANGEROUS FOR
THE ENVIRONMENT**

HARMFUL IF SWALLOWED.

VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

KEEP OUT OF REACH OF CHILDREN.

THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF IN A SAFE WAY. USE APPROPRIATE CONTAINMENT TO AVOID ENVIRONMENTAL CONTAMINATION.

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

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

FOR USE ONLY AS A HORTICULTURAL INSECTICIDE

Crops:	Apple, pear, plum, strawberry, raspberry, gooseberry, whitecurrant, redcurrant, blackcurrant
Maximum Individual Dose:	}
Maximum Number of Treatments:	} Full details are given in the Statutory Area on the
Latest Time of Application:	} attached leaflet
Other Specific Restrictions:	}

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

SAFETY PRECAUTIONS

Operator protection:

#This product contains an anticholinesterase organophosphate (or carbonate or carbomoyl triazole). DO NOT USE if under medical advice not to work with such compounds.

#Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment.

#WEAR SUITABLE PROTECTIVE GLOVES when handling the product.

#WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling drenched trays or peat blocks/modules of seedlings.

#WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling freshly treated material.

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

WASH CONCENTRATE from skin or eyes immediately.

DO NOT BREATHE SPRAY.

WASH HANDS AND EXPOSED SKIN before meals and after work.

IF YOU FEEL UNWELL, seek medical advice, (show label where possible).

Environmental protection:

#HIGH RISK TO BEES. Do not apply to crops in flower or to those in which bees are actively foraging. Do not apply when flowering weeds are present.

#DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container.

#DO NOT ALLOW DIRECT SPRAY from broadcast air-assisted sprayers to fall within 18 metres of the top of the bank of a static or flowing waterbody, unless a Local Environmental Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 5 metres of the top of a ditch which is dry at the time of application. Aim spray away from 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. DO NOT ALLOW DIRECT SPRAY from hand-held sprayers to fall within 1 metre of the top of the bank of a static or flowing water body. Aim spray away from water.

#This product qualifies for inclusion within the Local Environmental Risk Assessment for Pesticides (LERAP) scheme for BROADCAST AIR-ASSISTED SPRAYERS ONLY. Before each spraying operation from a broadcast air-assisted sprayer, either a LERAP must be carried out in accordance with PSD's published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years.

Storage and disposal:

STORE UNUSED SACHETS in a safe place. DO NOT STORE half-used sachets.

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

WASH OUT CONTAINER THOROUGHLY, empty washings into spray tank, and dispose of safely.

DO NOT RE-USE CONTAINER for any purpose.



LERAP A
and
Broadcast
Air Assisted
LERAP

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

LORSBAN WG contains chlorpyrifos, 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 gram 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 from:

Dow AgroSciences Limited

Latchmore Court, Brand Street, Hitchin, Hertfordshire, SG5 1NH

Tel: (01462) 457272: Fax: (01462) 426605

24 hour Emergency Telephone Number: 0870 600 2999

or from nearest National Poisons Information Service

DIRECTIONS FOR USE

IMPORTANT: This leaflet 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.

COMPLIANCE WITH THE FOLLOWING CONDITIONS OF USE AND ALL SAFETY PRECAUTIONS MARKED # IS A LEGAL REQUIREMENT FOR USE ONLY AS AN AGRICULTURAL/HORTICULTURAL INSECTICIDE

Crop	Maximum Individual Dose (kg product/ha unless otherwise stated)	Maximum Number of Treatments/ Maximum Total Dose	Latest Time of Application
Apple Pre-blossom Post-blossom	0.6 1.2	One per year Three per year	14 days before harvest (see "Other Specific Restrictions")
Pear	1.2	Two per year	14 days before harvest (see "Other Specific Restrictions")
Plum	1.2	Three per year	14 days before harvest (see "Other Specific Restrictions")
Strawberry Spray application: Drench application:	1.0 570 ml of spray solution per plant (see Other Specific Restrictions)	Three per crop One per crop	7 days before harvest See "Other Specific Restrictions"
Raspberry	1.0	Three per year or 1.8 kg product/ha/crop (See "Other Specific Restrictions")	7 days before harvest
Gooseberry	1.0	One per year	14 days before harvest
Whitecurrant, redcurrant, blackcurrant	1.0	Three per crop	14 days before harvest

Other specific restrictions:

A maximum total dose of 1.8 kg product/ha/crop must not be exceeded when applying LORSBAN WG to raspberries

A maximum concentration of 1.25 kg product per 1000 litres water must not be exceeded when applying LORSBAN WG as a drench to strawberries.

LORSBAN WG can only be applied as a drench treatment to strawberries at the end of the cropping season but before the end of November.

Fruit crops must not be treated during flowering.

KEEP LIVESTOCK OUT of treated areas for at least 14 days following treatment.

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

SAFETY TO BEES

In top fruit crops use pre-blossom up to pink/white bud or post-blossom after petal fall. In other crops do not apply during flowering.

RESISTANCE

Aphids:

Strains of some aphid species are resistant to many aphicides. Where aphids resistant to products containing chlorpyrifos occur, LORSBAN* WG is unlikely to give satisfactory control. Repeat treatments of the same product are unlikely to improve efficacy.

Pear suckers:

Pear suckers resistant to one or more groups of insecticides are widespread. Where strains resistant to products containing organophosphorus insecticides occur, LORSBAN WG is unlikely to give satisfactory control. Where repeat treatments are necessary use different active ingredients.

Spider mites:

Strains of 'spider mites' resistant to one or more groups of acaricides are widespread. Where strains resistant to products containing chlorpyrifos occur, LORSBAN WG is unlikely to give satisfactory control.

MIXING INSTRUCTIONS

Half fill the sprayer tank with clean water and commence agitation. Add the appropriate amount of LORSBAN WG insecticide and add the remainder of the water. Agitate continuously during mixing and until application is complete.

Note: LORSBAN WG is not compatible with zineb, boron or highly alkaline materials. Please ensure spraying equipment is thoroughly cleaned if using LORSBAN WG after either of these substances.

SPRAY QUALITY

Apply LORSBAN WG as a MEDIUM quality spray as defined by the BCPC system.

APPLES

RATE OF USE AND PESTS CONTROLLED

PRE-BLOSSOM

<i>Pest</i>	<i>Rate kg/ha</i>
Aphids, apple blossom weevil, apple sucker, capsids, tortrix, winter moths	0.6

POST-BLOSSOM

<i>Pest</i>	<i>Rate kg/ha</i>
Aphids, codling moth, common green capsid, late winter moths, red spider mite, sawfly, tortrix, woolly aphid	1.2

WATER VOLUME

Apply in 250 to 2000 litres of water per hectare.

TIME OF APPLICATION

PRE-BLOSSOM

Apple blossom weevil: Bud burst.

Aphids (rosy leaf-curling etc), tortrix, winter moths: Bud burst to pink bud.

Capsids, apple sucker: Green cluster to pink bud.

A late green cluster to pink bud application will control all the above pests except common green capsid, rosy leaf-curling aphid and rosy apple aphid, which will require a further spray at petal fall or soon after.

Where there is a known history of rosy leaf-curling aphid, spray pre-blossom and again at petal fall.

POST-BLOSSOM

Common green capsid, aphids (rosy leaf-curling etc), sawfly: Petal fall.

Later winter moths, codling moth: Mid to late June in most seasons. Repeat the application 14 days later and again if necessary.

Tortrix: This pest will be controlled by the codling moth sprays. Severe or late attacks in late July or early August will require a third application.

Aphids: Following pre-blossom treatment rosy leaf-curling aphid and rosy apple aphid will require a further spray at petal fall or soon after to complete control. If no pre-blossom control measures have been taken it is advisable to use at least 1000 litres water per hectare to obtain penetration of curled leaf.

Red spider mite: Where LORSBAN WG is used at petal fall for capsid, late winter moth or sawfly control, or later where it is used for codling or tortrix moth control, it may not be necessary to use an acaricide treatment.

Woolly aphid: This pest will also be controlled by the codling and tortrix spray applications.

LATEST TIME OF APPLICATION

14 days before harvest.

MAXIMUM NUMBER OF APPLICATIONS

A maximum number of one pre-blossom application and three post-blossoms applications per year of LORSBAN WG may be made to apples.

NOTE

Fruit crops must not be treated during flowering.

PEARS

RATE OF USE AND PESTS CONTROLLED

PRE-BLOSSOM

<i>Pest</i>	<i>Rate kg/ha</i>
Aphids, capsids, tortrix, winter moths	0.6

POST-BLOSSOM

<i>Pest</i>	<i>Rate kg/ha</i>
Aphids, capsids, caterpillars, codling moth, pear sucker, red spider mite	1.2

WATER VOLUME

Apply in 250 to 2000 litres of water per hectare.

TIME OF APPLICATION

PRE-BLOSSOM

Aphids, capsids, tortrix, winter moths: These pests will be controlled when spraying between bud burst and white bud.

POST-BLOSSOM

Capsids, caterpillars, sucker: Spray when pests are seen.

Codling moth: Mid to late June in most seasons. Repeat the application 14 days later and again if necessary.

Aphids: Post-blossom sprays will control aphids including leaf-curling species.

Red spider mite: This pest when it occurs on pears may also be controlled by post-blossom applications.

Pear sucker: Good coverage is essential and it is advisable to spray high volume and thoroughly soak the trees.

LATEST TIME OF APPLICATION

14 days before harvest.

MAXIMUM NUMBER OF APPLICATIONS

A maximum number of two applications per year of LORSBAN WG may be made to pears.

NOTE

Fruit crops must not be treated during flowering.

PLUMS

RATE OF USE AND PESTS CONTROLLED

PRE-BLOSSOM

<i>Pest</i>	<i>Rate kg/ha</i>
Aphids, tortrix, winter moths	0.6

POST-BLOSSOM

<i>Pest</i>	<i>Rate kg/ha</i>
Damson hop aphid, mealy plum aphid, red spider mite, winter moths	1.2

WATER VOLUME

Apply in 250 to 2000 litres of water per hectare.

TIME OF APPLICATION

PRE-BLOSSOM

Winter moths, tortrix, aphids: Bud burst to white bud

POST-BLOSSOM

Aphids: Spray in May or June when aphids are first seen and repeat as necessary for further aphid migrations into orchards.

Winter moths: Spray at cot split (7 to 10 days after petal fall).

Red spider mite: Where LORSBAN WG is used at cot split to control late winter moths it may not be necessary to use an acaricide treatment.

LATEST TIME OF APPLICATION

14 days before harvest.

MAXIMUM NUMBER OF APPLICATIONS

A maximum number of three applications per year of LORSBAN WG may be made to plums.

NOTE

Fruit crops must not be treated during flowering.

STRAWBERRIES

FOLIAR APPLICATION

RATES OF USE AND PESTS CONTROLLED

<i>Pests</i>	<i>Rate kg/ha</i>
Aphids, tortrix	0.6
Red spider mite, strawberry blossom weevil	1.0

WATER VOLUME

Apply in 1000 litres of water per hectare.

TIME OF APPLICATION

Aphids: Fruiting beds Spray just before flowering and before the aphids build up (usually in mid to late April for outdoor crops). Repeat immediately after all the fruit has been picked. For early attacks it may be necessary to apply the first spray in late March. Repeat in late April to early May.

Protected crops: Spray in March and again, if necessary, just before flowering.

Runner beds/maiden beds: Spray in mid-May and repeat at 2 to 3 week intervals.

Tortrix: Spray in April, when pest appears. This pest can cause serious damage in some seasons and it may be necessary to spray again in the summer and autumn.

Red spider mite: Application of LORSBAN WG at the time for aphids will also control non-organophosphorus resistant red spider mite. In some seasons a spray in early April may prove necessary. Spray protected crops in early March to early April.

Strawberry blossom weevil: Where infestations are not severe, application should be made after the first sign of damage up until just before the crop flowering stage.

Where infestations are severe, two applications should be made; the first at the first sign of weevil damage and the second just before the crop flowering stage.

LATEST TIME OF APPLICATION

7 days before harvest.

MAXIMUM NUMBER OF APPLICATIONS

A maximum number of two foliar applications per crop of LORSBAN WG at 1.0 kg/ha may be made in strawberries for use against blossom weevil or red spider mite.

A maximum number of one foliar application per crop of LORSBAN WG at 0.6 kg/ha may be made in strawberries for use against aphids and tortrix.

NOTE

Fruit crops must not be treated during flowering.

DRENCH TREATMENT

RATE OF USE AND PEST CONTROLLED

<i>Pest</i>	<i>Rate kg/1000 litres</i>
Vine weevil	1.2

VOLUME

Apply as a drench using 285 to 570 millilitres of spray solution per plant depending on size and species treated.

The maximum concentration must not exceed 1.25 kg of product per 1000 litres of water.

TIME OF APPLICATION

Weevils damage the main feeding roots and may excavate the base of the crown. Drench strawberry crowns and surrounding collar of soil after cropping and preferably after mowing. LORSBAN WG is also recommended for the control of vine weevil larvae in the later cropping varieties of strawberry, eg Ostara, Rapella and Pegasus, and also in the late crop of a double cropping variety such as Red Gauntlet. Application must be made as above, after the top growth has been mown off following cropping, but no later than November.

Do not apply LORSBAN WG for the control of vine weevil larvae to strawberries grown under plastic tunnels or in cloches.

MAXIMUM NUMBER OF APPLICATIONS

A maximum number of one drench application per year of LORSBAN WG may be made to strawberries.

NOTE

In view of the large number of new strawberry varieties and cropping systems being adopted, test LORSBAN WG at the recommended dose rate for crop safety on a small number of plants before making an overall application.

Fruit crops must not be treated during flowering.

LORSBAN WG can only be applied as a drench treatment to strawberries at the end of the cropping season but before the end of November.

RASPBERRIES

RATES OF USE AND PESTS CONTROLLED

<i>Pest</i>	<i>Rate kg/ha</i>
Aphids, raspberry beetle, raspberry cane midge	0.6
Red spider mite	1.0

WATER VOLUME

Apply in a minimum of 1000 litres of water per hectare for control of raspberry beetle; 500 litres of water per hectare for other pests.

TIME OF APPLICATION

Raspberry beetle: Spray at first pink fruit stage.

Aphids: Spray pre-blossom as required.

Red spider mite: Attacks at first pink fruit will be controlled by sprays applied for raspberry beetle control or spray later as required.

Raspberry cane midge:

Southern England: Early/mid-May.

Scotland: Late May/early June

Spray one week later in both areas after a cold spring. Delay first application until small longitudinal splits are found on the young spawn or on ADAS advice. Repeat 10 to 14 days later just before but not during flowering. Direct spray into bottom 600 millimetres of young canes, ie below bottom wire.

LATEST TIME OF APPLICATION

7 days before harvest.

MAXIMUM NUMBER OF APPLICATIONS/MAXIMUM TOTAL DOSE

A maximum number of three applications per year of LORSBAN WG may be made to raspberries, but a maximum total dose of 1.8 kg/product/ha must not be exceeded.

NOTE

Fruit crops must not be treated during flowering.

CURRENTS

The following crops can be treated: Blackcurrants, redcurrants, whitecurrants

RATE OF USE AND PESTS CONTROLLED

<i>Pest</i>	<i>Rate kg/ha</i>
Aphids, capsids, caterpillars	0.6
Red spider mite	1.0

WATER VOLUME

Apply in a minimum of 2000 litres of water per hectare for control of red spider mite; 1000 litres of water per hectare for other pests.

TIME OF APPLICATION

Aphids: Spray as and when attack occurs.

Capsids, caterpillars: Spray before first open flower and again at the end of flowering.

Red spider mite: Spray at fruit set and repeat if necessary. Repeat after picking to avoid spider mite hibernating for next season.

LATEST TIME OF APPLICATION

14 days before harvest.

MAXIMUM NUMBER OF APPLICATIONS

A maximum number of three applications per crop of LORSBAN WG may be made to currants.

NOTE

Fruit crops must not be treated during flowering.

GOOSEBERRIES

RATES OF USE AND PESTS CONTROLLED

<i>Pest</i>	<i>Rate kg/ha</i>
Aphids, capsids, caterpillars	0.6
Red spider mite	1.0

WATER VOLUME

Apply in a minimum of 2000 litres of water per hectare for control of red spider mite; 1000 litres of water per hectare for other pests.

TIME OF APPLICATION

Aphids: Spray as and when attack occurs.

Capsids: Spray before first open flower and again at the end of flowering.

Caterpillars: Spray as soon as the pests are seen, usually soon after fruit set. It is important to force the wash into the centre of large bushes.

Red spider mite: Spray as soon as mites are seen on the foliage, usually late April to early May, and repeat application if necessary.

LATEST TIME OF APPLICATION

14 days before harvest.

MAXIMUM NUMBER OF APPLICATIONS

A maximum number of one application per year of LORSBAN WG may be made to gooseberries.

Fruit crops must not be treated during flowering.

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.

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