



CHLOROFLASH™

A suspension concentrate, containing 200g/L chlorantraniprole for use against chewing insects in agricultural and horticultural crops.
For professional use only.

For use only as an agricultural/horticultural insecticide.

(Please see inside for Directions for Use)

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

GROUP

28

INSECTICIDE

Risk and Safety Information

Very toxic to aquatic life with long lasting effects.

Keep out of reach of children.

Read label before use.

Do not eat, drink or smoke when using this product.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

Collect spillage.

To protect aquatic organisms, respect and unsprayed buffer zone of 10m to surface water when applying to maize, sweetcorn, carrots, parsnips, root parsley, beetroot, celeriac, horseradish, Jerusalem artichoke, radish, salsify, swede and turnip.

To protect aquatic organisms, respect and unsprayed buffer zone of 20m to surface water bodies when applying to cabbage, broccoli and cauliflower, apples pears and plums.

Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty clean 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.

In case of emergency contact the Poisons Information Centre Tel: +353 1 8092566 or +353 1 8379964.

If medical advice is needed, have product container or label at hand.

WARNING

UBI: 3H6R-Y1V3-Q00Q-SAKF



PCS No. 07557

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PROTECT FROM FROST

SHAKE WELL BEFORE USE

500ml e

SAFETY PRECAUTIONS

ENVIRONMENTAL PROTECTION

Do not contaminate surface waters or ditches with chemical or unused container. To protect aquatic organisms, respect and unsprayed buffer zone of 10m to surface water when applying to maize, sweetcorn, carrots, parsnips, root parsley, beetroot, celeriac, horseradish, Jerusalem artichoke, radish, salsify, swede and turnip.

To protect aquatic organisms, respect and unsprayed buffer zone of 20m to surface water bodies when applying to cabbage, broccoli and cauliflower, apples pears and plums.

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.

This material and its container must be disposed of in a safe way.

PRECAUTIONS

In case of emergency contact the Poisons Information Centre Tel: +353 1 8092566 or +353 1 8379964.

If medical advice is needed, have product container or label at hand.

DIRECTIONS FOR USE.

IMPORTANT INFORMATION			
For use only as an agricultural/horticultural insecticide.			
Crops	Max. Single dose	Max. total dose	Latest time of application
Maize, sweetcorn	125 mL/ha	250 mL/ha	(GS73 to GS87)
7 days before harvest			
Cauliflower, Broccoli, Head cabbage, Savoy cabbage.	125 mL/ha	250 mL/ha	1 day before harvest
Carrot, parsnip, root parsley, beetroot, celeriac, horseradish, Jerusalem artichoke, radish, salsify, swede turnip.	175 mL/ha	350 mL/ha	21 days before harvest
Qualified Minor Uses*			
Crops	Max. Single dose	Max. total dose	Latest time of application
Potatoes	60 mL/ha	120 mL/ha	14 days before harvest
Apples, pears, plums	262.5 mL/ha	525 mL/ha	14 days before harvest
Grapes	210 mL/ha	210 mL/ha	30 days before harvest
*There is limited evidence of crop safety and/or product efficacy available for qualified minor uses and the commercial risk of using this product under these Qualifies Minor Uses is borne entirely by the grower.			
Method of application: Tractor mounted/trailed horizontal sprayer, orchard/blast sprayer, knapsack/handheld sprayer.			
Other Specific restrictions: The number of applications of CHLOROFLASH or other group 28 insecticides is limited to two per crop. Applications to potatoes must not occur in consecutive years.			

Specific pests controlled:

European corn borer [PYRUNU] in maize and sweet corn
Lepidoptera species [LEPISP] on head/savoy cabbage, broccoli & cauliflower
Carrot root fly [PSILRO] (moderate control) on carrot, root parsley, parsnip, beetroot,
Horse radishes, Jerusalem artichokes, radishes, salsifies, swedes, turnips & celeriac
Codling moth [CARPO] on apples, pears, plums*
Colorado beetle [LPTNDE] on potatoes*
Grape berry moth [CLYSAM] [POLYBO] on grapes*

RESTRICTIONS

- CHLOROFLASH must not be applied to any crop suffering from stress as a result of drought, waterlogging, low temperatures, pest or disease attack, nutrients or lime deficiency or other factors reducing crop growth.
- Good agricultural practice suggests that CHLOROFLASH should be used when bees are less active (i.e. early morning or late evening).

INSECT CONTROL

CHLOROFLASH is a group 28 anthranilic insecticide used for the control of larvae of various lepidopteran (caterpillar) and Coleopteran (beetle) species. Activity is by ingestion and contact. Paralysis of the pest occurs within a few hours of exposure and results in cessation of movement and feeding. Final control can take 2-4 days.

CHLOROFLASH may be used as part of an Integrated Pest Management (IPM) program, which can include biological, cultural, and genetic practices, aimed at preventing economic pest damage. IPM principles and practices include field scouting or other detection methods. Correct target pest identification, population monitoring, rotation of insecticides with different modes of action, and treating when target pest populations reach locally determined actions thresholds. Consult your crop adviser to determine appropriate action treatment threshold levels for treating specific pest/crop or site systems in your area.

INSECT RESISTENCE

Repeated and exclusive use of CHLOROFLASH or other insecticides may lead to the development of insect resistant populations. Maintaining the longevity of CHLOROFLASH and all group 28 products as an effective pest control tool for growers is critical, thus an insecticide resistance management (IRM) strategy should be established in the area of use. CHLOROFLASH should be incorporated into the Integrated Pest management programs that include cultural and biological control practices in association with the IRM guidelines detailed below. Consult your local agricultural authorities or company representative for more details.

If resistance to this product develops in your area, this product and other products with a similar mode of action may not provide adequate control. Development of resistance can be avoided or delayed by alternating products having different modes of action.

The number of applications of CHLOROFLASH is limited to 2 per season.

The following practices are recommended to prevent or delay the development of insecticide resistance to CHLOROFLASH and to Group 28 insecticides.

- Apply CHLOROFLASH or other Group 28 insecticides using a "window" approach to avoid exposure of consecutive insect pest generations to the same mode of action.
- A treatment "window" is defined as the period of residual activity provided by a single multiple, or sequence of product applications with the same mode of action, in an approximate 30-day period.
- Two successive applications of CHLOROFLASH are acceptable if they are used to treat a single insect generation but are not acceptable to control two consecutive pest generations.
- Following a "window" of CHLOROFLASH or other Group 28 insecticide, rotate to a "window" of applications of effective insecticides with a different mode of action.
- The total exposure period of all "Group 28 active windows" applied throughout the crop cycle (from sprouting/seedling to harvest)

should not exceed 50% of the crop cycle.

- Avoid using less than labelled rates when applied alone or in tank mixes.

For additional information on insect resistance monitoring, visit the Insecticide Resistance Action committee (IRAC) on the web at <http://www.irac-online.org>

INTEGRATED PEST MANAGEMENT

This product may be used as part of an IPM program, which can include biological, cultural, and genetic practices, aimed at preventing economic pest damage. IPM principles and practices include field monitoring or other detection methods, correct target pest identification, population monitoring, rotation of insecticides with different modes of action, and treating when target pest populations reach locally determined action thresholds. Consult your local extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop or site systems in your area.

CROPS

CHLOROFLASH may be applied to the following crops:

Crops	Pests	Dose	Timing
Cauliflower, Broccoli, Head cabbage, Savoy cabbage.	<i>Lepidoptera</i> species including <i>Pitella xylostella</i> , <i>Mamestra brassicae</i> , <i>Pieris rapae</i> , <i>Pieris brassicae</i> , <i>Evergestis forfocalis</i> , <i>Cleptis spectrana</i>	12ml/ha in 300-800L water/ha	For best plant protection, apply during the egg laying until the very first eggs are hatching. When locally available, follow the timing recommendations for the Ovi-larvicide materials. Make no more than two applications per year, according to pest pressure and to the targeted level of plant protection. Should additional sprays be needed, alternate use of CHLOROFLASH with other insecticides with a different mode of action.
Carrot, parsnip, root parsley, beetroot, celeriac, horseradish, Jerusalem artichoke, radish, salsify, swede turnip.	Carrot root fly (<i>Psila rosa</i>) CHLOROFLASH offers moderate control of carrot root fly on carrots.	175ml/ha	Apply during the egg-laying (before the flight peak of adult flies) preferable against the 2 nd or the 3 rd generation. Apply in 300-800 L water/ha (normal volume sprayers). Make no more than two applications per year at 14-day intervals. Should additional sprays be needed, alternate use of CHLOROFLASH with other suitable insecticides with a different mode of action.
Maize, sweetcorn	European Corn Borer (<i>Ostrinia nubilalis</i>)	125ml/ha in 300-800L/ha using boom sprayer	Apply during the egg-laying until the very first eggs are hatching. When locally available, follow the timing recommendations for the Ovi-larvicide materials. Make no more than two applications per year. Should additional sprays be needed, alternate use of CHLOROFLASH with other insecticides with a different mode of action.

MINOR USE OF QUALIFICATION*

There is limited evidence of crop safety and /or product efficacy available for qualified minor uses and the commercial risk of using this product under these Qualified Minor Uses is borne entirely by the grower.

Crops	Pests	Dose	Timing
Potato*	Colorado beetle (<i>Leptinotarsa decemlineata</i>)	50-60ml/ha in 200-600l/ha using boom sprayer	Treat at egg-hatch or as soon as the first signs of crop damage. In severe infestations a follow-up treatment may be applied after 14 days. The higher rate should also be used when pest pressure is severe. Apply no more than 2 applications per crop.
Apple*, pear* and plum*	Codling moth (<i>Cydia spp.</i>)	A rate of 175 ml/ha should be used for trees of 3.75m height in a single row system, 3.25 m height in a 2 or 3 row system and 2.25m in a 5 row system. Where tree height and /or canopy density is reduced, the dose (and water volume) should be adjusted in accordance with an appropriate dose adjustment scheme, for example PACE, however if reducing the dose according to the tree height or canopy density, do not use less than 150 ml/ha. Consult your specialist advisor for further information.	For best fruit protection apply during egg-laying at the ovicide timing, before egg-hatch and fruit penetrations occur. CHLOROFLASH should be applied in alternation with other insecticides with a different mode of action. Apply no more than two applications of CHLOROFLASH per year, at a minimum interval of 14 days in ease of sequential applications.
Grapes*	Grape berry moth (<i>Lobesia botrana</i> , <i>Clysia ambiguella</i> , <i>Argyrotaenia pulchellana</i>)	150-210ml/ha in 500-1200l/ha	For best bunch protection apply during egg-laying at ovicide timing, before egg-hatch and penetrations occur. Apply preferably against the 2 nd generation. Make no more than one application per season. When a program of two or more insecticide applications is needed to achieve good control, CHLOROFLASH should be applied within spray programmes including other suitable insecticides with a different mode of action, at effective rates.

MIXING

Before using CHLOROFLASH make sure that the spraying equipment is clean. CHLOROFLASH mixes easily with water, but the following mixing procedure should be followed:

Quarter fill the tank with clean water, start the agitation and add the required quantity of CHLOROFLASH directly to the tank. Continue agitation while topping up the tank and while spraying.

COMPATIBILITY

Do not use any product in a tank -mix if the mixture cannot be applied within the recommendations for all the separate ingredients. When using in a tank-mix always add CHLOROFLASH to the tank first. Consult your supplier before applying in the tank-mix with any other product.

SPRAY TANK CLEAN OUT

Immediately after application, completely drain spray equipment. Thoroughly rinse sprayer and flush the hoses, boom and nozzles with clean water. Loosen and physically remove visible deposits. Remove and clean nozzles, screens and strainers. Flush the entire system with clean water. Take all necessary safety precautions when cleaning equipment. Do not clean near wells of water sources. Consult label tank clean up procedures for all tank mix partners and be sure to use the more rigorous procedure recommended.

NOTICE TO BUYER

All goods supplied by us are of high grade and we believe them to be suitable for any purpose for which we expressly supply them, but as we cannot exercise control over their mixing or use, all conditions and warranties, statutory or otherwise, as to the quality or fitness for any purpose of our goods are excluded and no responsibility will be accepted by any damage or injury whatso ever arising from their storage, handling, application or use.