

Voliam

syngenta.

GROUP 28 INSECTICIDE **I**

Product registration number: MAPP 19718

A suspension concentrate, containing 200 g/L chlorantraniliprole for the control of European corn-borer on forage and grain maize and sweetcorn and carrot fly on carrot.

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

**In case of toxic or transport emergency ring
+44 (0)1484 538444 any time.**

This product label is compliant with the
CPA Voluntary Initiative (VI) guidance.



1 Litre

VOLIAM

Contains 200 g/l chlorantraniliprole

Warning

Very toxic to aquatic life with long lasting effects.

Collect spillage.

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

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).

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



MAPP 19718

IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL AGRICULTURAL INSECTICIDE

Crops	Maximum individual dose (ml product/ha).	Maximum number of applications	Latest time of application.
Carrots	175	1 per crop	21 days prior to harvest
Forage Maize, Grain Maize, Sweetcorn	125	1 per crop	7 days prior to harvest

The following Aquatic Buffer Zones must be observed:

Crops/situations	Aquatic buffer zone distance (metres)	Comment
Forage Maize, Grain Maize, Sweetcorn	5	See Environmental Protection Phrase 1

Other specific restrictions:

This product must not be applied via hand-held equipment

This product must not be applied before BBCH 51 when applying to maize and sweetcorn

Method of application: Tractor mounted sprayer

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.

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SAFETY PRECAUTIONS

Environmental protection



(1) Crops/situations with 5m buffer zone:

Since there is a risk to aquatic life from use, users not applying the statutory buffer zone must either themselves carry out or ensure that someone else has carried out a Local Environment Risk Assessment for Pesticides (LERAP) on their behalf before each spraying operation from a horizontal boom sprayer. Users must not allow direct spray from horizontal boom sprayers to fall within 5m of the top of the bank of any static or flowing waterbody or within 1m of a ditch which is dry at the

time of application (these distances to be measured as set out in the guidance documents available from HSE Chemical Regulation Division's website and any amendments that are made to it) unless:

- (a) The LERAP indicates that a narrower buffer zone will be sufficient; and
- (b) Any measures indicated by the LERAP as justifying the narrower buffer zone are complied with in full and in accordance with any conditions applicable to them. Spray must be aimed away from water.

(2) The results of the LERAP must be recorded in written form and must be available for a period of three years for inspection to any person entitled to exercise enforcement powers under or in connection with the Plant Protection Products Regulations 2011 or the Plant Protection Products (Sustainable Use) Regulations 2012. (An electronic record will satisfy the requirement for a written record, providing it is similarly available for inspection and can be copied).

(3) Detailed guidance on LERAPs and how to conduct a LERAP are contained in the guidance documents available from HSE Chemicals Regulation Division's website. All LERAPs must be carried out in accordance with this Guidance and any amendments that are made to it.

OTHER SPECIFIC RESTRICTIONS:

This product must not be applied via hand-held equipment.

This product must not be applied before BBCH 51 when applying to maize and sweetcorn.

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

Keep out of reach of children.

Keep away from food, drink and animal feeding stuffs.

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

DIRECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be carefully read in order to obtain safe and successful use of this product.

RESTRICTIONS

- VOLIAM must not be applied to any crop suffering from stress for example, as a result of drought, watering, low temperatures, disease attack, nutrient or lime deficiency or other factors reducing crop growth
- To protect bees and pollinating insects do not apply to crops when in flower. Do not use when bees are actively foraging (i.e. apply in the early morning or late evening). Do not apply where other flowering plants are present
- The best available application technique, which minimises off-target drift should be used to reduce effects on non-target insects or other arthropods
- Consult processor when the product is to be applied to crops grown for processing

INSECT CONTROL

VOLIAM is a Group 28 anthranilic insecticide used for the control of larvae of various Lepidopteran (caterpillar species) and the Dipteran, carrot fly. 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.

Insect resistance

Repeated and exclusive use of VOLIAM or other Insecticides may lead to the development of insect resistant populations. Maintaining the longevity of VOLIAM 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. VOLIAM should be incorporated into 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 following practices are recommended to prevent or delay the development of insecticide resistance to VOLIAM and to Group 28 insecticides:

- Apply VOLIAM 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 single, multiple, or sequence of product applications with the same mode of action, in an approximate 30 day period.
- Two successive applications of VOLIAM 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 VOLIAM 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 mixtures

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

CROPS

VOLIAM may be applied to the following crops:

Carrot

Pests controlled: Carrot fly (*Psila rosae*) (moderate control)

Dose: 175 ml/ha

Timing: Apply during the egg-laying (before the flight peak of adult flies) against the 1st or, preferably, the 2nd generation.

Apply in 300-800 L water/ha (normal volume sprayers).

Make no more than one application per year. Should additional sprays be needed, alternate use of VOLIAM with other suitable insecticides with a different mode of action.

Maize and sweetcorn

Pests controlled: European corn-borer

Dose: 125 ml/ha in 300-800 l/ha using boom sprayer.

Timing: 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 one application per year. Should additional sprays be needed, alternate use of VOLIAM with other suitable insecticides with a different mode of action.

This product must not be applied before BBCH 51 when applying to maize and sweetcorn.

MIXING

Before using VOLIAM, make sure that the spraying equipment is clean. VOLIAM mixes easily with water, but the following mixing procedure should be followed: Quarter fill the spray tank with clean water, start the agitation and add the required quantity of VOLIAM directly to the tank. Continue agitation while topping up the tank and while spraying.

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 or water sources. Consult label tank cleanup procedures for all tank mix partners and be sure to use the most rigorous procedure recommended.

NOTICE TO BUYER

All goods supplied by us are of a 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 us for any damage or injury whatsoever arising from their storage, handling, application or use.