

# Gnatrol® SC

BIOLOGICAL INSECTICIDE  
SUSPENSION CONCENTRATE

## MAPP 20471

A suspension concentrate formulation containing 123 g/l (11.6% w/w) *Bacillus thuringiensis* subsp. *israelensis*, strain AM 65-52.

Gnatrol® SC is a biological insecticide for use on protected ornamentals for the control of larvae of fungus gnats.

### Benefits of Gnatrol® SC:

- Although Gnatrol® SC has no known effect on the development of populations of natural predators and beneficial insects in integrated pest management programmes, growers should consult appropriately before use.
- Gnatrol® SC is ingested by the fungus gnat larvae in the soil. After ingestion it breaks down the intestinal walls and the larvae stop feeding and die within 24-72 hours.

### IMPORTANT INFORMATION

#### FOR USE ONLY AS A PROFESSIONAL INSECTICIDE

Crop	Maximum individual dose (product)	Maximum number of treatments	Latest time of application
Ornamental plant production (permanent protection with full enclosure)	10 ml/m <sup>2</sup>	3 per crop	14 days after potting

**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.**

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

### SAFETY PRECAUTIONS

Contains *Bacillus thuringiensis* subsp. *israelensis*. Micro-organisms may have the potential to cause sensitisation reactions.

#### Operator protection

Avoid breathing spray.

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment: WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND SUITABLE RESPIRATORY PROTECTIVE EQUIPMENT\* when handling the concentrate or applying the product.

\* Disposable filtering face-piece respirator to at least EN149 FFP3 or equivalent.

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**Net Contents: 10 Litres**

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

Wash contaminated clothes before reuse.

IF ON SKIN: wash with plenty of water.

### 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 and roads.

Treatment must only be made under 'permanent protection' situations which provide full enclosure (including continuous top and side barriers down to below ground level) and which are present and maintained over a number of years.

To minimise airborne environmental exposure, vents, doors and other openings must be closed during and after application until the applied product has fully settled.

### Storage and disposal

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

KEEP OUT OF REACH OF CHILDREN.

KEEP AWAY FROM CHILDREN AND PETS.

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

EMPTY CONTAINER COMPLETELY and dispose of safely.

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

**Storage conditions:** For optimum storage maintain under cool conditions. Use within 12 months when stored at room temperature.

### 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.

### Restrictions

Gnatrol® SC has no known harmful effects on non-target plants and animals when used according to label recommendation. However, when changing to different plant species or varieties, or important cultural conditions change, it is recommended to try a few plants before applying to the whole batch. Gnatrol® SC should not be sprayed with fertilizers or fungicides containing copper or chlorine, as this may inactivate the active micro-organism (chlorine levels in drinking water do not normally present a problem associated with the effect of Gnatrol® SC).

Do not irrigate the soil of stressed plants and avoid watering with a disproportionately large amount of water after application.

### Resistance

The risk of resistance to Gnatrol® SC is low but since resistance cannot be predicted it is recommended that this is integrated with other methods (chemical, cultural, biological).

### Dose

5-10 ml/m<sup>2</sup> delivered by soil drench/spray or automated irrigation of the soil.

The lowest dose can be used for smaller populations of small larvae at the early larval stages and if it is part of an integrated pest management system with other methods.

Apply Gnatrol® SC with an appropriate amount of water by drench, drip or spray irrigation systems to the soil to impregnate the surface above and below the plant boxes where larvae are present. The areas under the plant boxes should be treated with high doses, as this is often one of the main breeding sites.

### Timing

The first treatment is carried out just before or immediately after potting. Repeat treatment as needed with 5-7 day intervals up to 3 times per crop. To achieve best results, add Gnatrol® SC at the end of the irrigation period. Gnatrol® SC is a larval control agent and does not control adult fungus gnats; therefore applications should be made during the development stage, when the larvae are present in the soil. Fungus gnat larvae generally respond to the Gnatrol® SC treatment within 24 hours of application.

### Mixing and Application

Gnatrol® SC can be applied in drip irrigation systems or sprayed on tables, in pots and on the ground under the tables. The top 3-4 cm of the growth medium should be soaked.

Suspend Gnatrol® SC in water before applying. When using a supply tank for continuous application, fill the tank with the desired amount of water. Use mechanical or hydraulic agitation to obtain a moderate circulation before Gnatrol® SC is added. Gnatrol® SC suspends easily in water and remains suspended through spraying of normal duration. However, it may be necessary to consider agitation if the spray mixture has been unused for several hours.

On emptying the container, rinse thoroughly three times. Add washings to the system while filling. Wash out system thoroughly after use. Dispose of container safely.

### Maximum Number of Applications

Three per crop.

### EXTENSION OF USE

This extension of the authorised use provides for the use of Gnatrol® SC in respect of crops and situations, other than those included on the product label [above]. No efficacy or phytotoxicity data have been assessed and as such the 'extension of use', is at all times done at the user's choosing, and the commercial risk is entirely theirs.

Crop	Maximum individual dose (product)	Maximum number of treatments	Latest time of application
Watercress	15 litres/ha	3 per annum	-

### Operator protection:

See main label [above].

### Other specific restrictions:

This product must only be applied in accordance with the terms of this extension of authorisation, the product label and/or leaflet and any additional guidance on extensions of authorisation.

A minimum interval of 7 days must be observed between applications.

The local office of the Environmental Agency (in England and Wales) or the Scottish Environmental Protection Agency (SEPA) should be consulted before using this product.

Before commencing operations in or near Sites of Special Scientific Interest, consult English Nature, Scottish Natural Heritage or the Countryside Council for Wales.

### 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 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.

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VARIABLE INFO AREA <b>1.5" x 0.5"</b>										
COLOR SEPARATIONS										
<b>PANTONE 300</b>										
<b>PANTONE 348</b>										
<b>PANTONE 424</b>										
<b>BLACK</b>										
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