EGC® LIQUID

MAPP 17852

A Bio-nematicide as soluble concentrate for the reduction of parasitic Ecto- and Endo-nematodes and Snow Mould (Fusarium patch) in amenity and sports turf.

(Based on minimum content of 999g/l food grade garlic juice extract, CLAIL0021)

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

CONTENTS 5 LITRES

Marketing Company	**Approval Holder**
Rigby Taylor	ECOspray Ltd
1-3 Freeman Court	Grange Farm
Jarman Way	Cockley Cley Road
Royston	Hilborough
Hertfordshire	Thetford
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EGC® LIQUID

A soluble concentrate as nematicide containing a minimum of 99.9% Garlic extract

WARNING

CAUSES SKIN IRRITATION

EUH 208- Contains Garlic- May produce an allergic reaction.
Keep out of reach of children
Wash hands thoroughly after handling
If on skin wash with plenty of soap and water
If irritation occurs, get medical advice
Do not contaminate water with the product or its container

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

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IMPORTANT INFORMATION

FOR USE ONLY AS A TURF NEMATICIDE

Crop:	Managed Amenity Turf
Maximum individual dose:	20 L/ha
Maximum number of treatments:	6 per year
Latest time of application:	Established Turf
Maximum total dose:	120 L/ha
Other specific restrictions:	Nil

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.

SAFETY PRECAUTIONS

Operator protection

Engineering control of operator exposure must be used where reasonably practicable in addition to the following equipment.
WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE GLOVES AND FACE PROTECTION (FACE SHIELD) when handling the product.
However engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.
WHEN USING, DO NOT EAT, DRINK OR SMOKE.
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 roads

Storage and Disposal

KEEP AWAY FROM FOOD, DRNK AND ANIMAL FEEDING STUFFS.
KEEP OUT OF REACH OF CHILDREN.
KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place away from damp.
EMPTY CONTAINER COMPLETELY and dispose of safely.
PROTECT FROM FROST.
Use within 12 months from date of manufacture, see date on label.

DIRECTIONS FOR USE

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.

EGC Liquid is for use as a nematicide sprayed onto the surface of turf to reduce plant parasitic nematode populations. Although a reduction of nematode numbers may be achieved, this may not be sufficient to reduce populations to below the levels which cause damage to the turf. Where nematode populations remain above damaging levels, an improvement in turf quality may not be seen. Note that an improvement in turf quality may not be seen even where nematode populations are reduced to below damaging levels. (It is essential that appropriate fertiliser and fungicide inputs are made).
Consult an expert for interpretation of nematode population data if soil samples reveal that damaging free-living nematodes have reached or exceeded known risk thresholds.

Qualified minor use claim

Limited data suggest that when EGC Liquid is applied against nematodes, some incidental reduction of pink snow mould (Fusarium patch) may be achieved. However, use of EGC Liquid specifically against pink snow mould is not recommended.'

APPLICATION RATE AND FREQUENCY

MIX 1 LITRE OF EGC LIQUID WITH 24 LITRES OF WATER (4%V/V) AND APPLY AT A VOLUME OF 50 ML/SQ M.

Sequential applications at between 7 and 14 day intervals may increase the level of nematode population reductions. It is recommended that no more than three applications are linked in any treatment sequence. The use of soil sampling to determine nematode populations prior to commencing use of EGC Liquid is recommended and will help to ensure that applications are made to coincide with nematode activity.

Best conditions for Use

The upper soil horizon should be moist and freely draining with percolation expected to reach 10cm in depth following EGC Liquid application. If soil conditions are dry, irrigate prior to application so the soil is adequately moist. Irrigate between 5-10 mm immediately after applying EGC Liquid depending on conditions. Irrigation may not be necessary if a similar amount of precipitation is imminent.

Mixing and spraying

EGC Liquid is a soluble concentrate that easily disperses with water. Use rate solutions of 4% v/v can be sprayed through typical hand held or tractor mounted spraying equipment. Wash spray equipment thoroughly after use.

Compatibility

Do not tank mix EGC Liquid

Resistance

No special measures are required.

Company Advisory Information

Nematode Damage to Turf

Symptoms of nematode damage in turf can be easily confused with other causative agents such as fungal disease, compaction, poor drainage, lack of irrigation and poor nutrition. Symptoms may be most obvious during periods of stress including high temperatures and drought. It is essential that soil samples that include root mass are taken from affected areas of turf in order to determine nematode populations and species type. Absence of, or low numbers of potentially damaging nematodes in soil samples from affected areas should not automatically be interpreted as absence of nematode risk, due to nematode population cycling. A number of soil samples taken from the same area at different times and under different environmental conditions should be considered if initial samples indicate low parasitic nematode numbers and other causes of damage are not apparent.

The Biology of Nematodes Parasitic to Turf.

All nematodes parasitic to turf feed by insertion of a needle like tube into root tissue. Ecto-parasitic nematodes feed with the body outside the plant and in soil samples will be present at all stages in the life cycle i.e. mature adults, immature adults, juveniles, immature juveniles and eggs. Ecto-parasitic nematodes are therefore generally vulnerable to a contact nematicide and high levels of population reduction of these nematodes can be achieved by 1-3 sequential treatments with EGC Liquid. Endo-parasitic nematodes feed by progressive invasion of the plant

tissue becoming embedded well into root cortex or specialised feeding sites formed by the nematode in the root mass. The invasive stage of the life cycle in Endo-parasitic nematodes is a second instar juvenile (J2) recently emerged from an egg. Time from emergence from the egg to invasion of the root is usually a matter of a few days (up to 2 weeks) for most Endo-parasitic nematodes. Once attached to the root, Endo-parasitic nematodes are difficult to detect by normal extraction and filtration techniques.

Applications of EGC Liquid

Due primarily to irregularities in the uniformity of egg hatch and dynamics of infection, at least three sequential applications of EGC Liquid are usually required to significantly reduce numbers of Endo-parasitic nematodes, irrespective of the presence of Ecto-parasitic nematodes as the primary target. If Endo-parasitic nematodes are the primary target, applications of EGC Liquid must coincide with emergence and migration of J2 nematodes throughout the root zone. If Ecto-parasitic nematodes are the only target, applications of EGC Liquid can be initiated at any time during favourable environmental conditions. It is recommended that three sequential applications of EGC Liquid are applied to significantly reduce populations of Ecto-parasitic nematodes, although substantial reductions in populations can be achieved by a single application. When applied against nematodes, some control/reduction of pink snow mould (Fusarium patch) may be achieved.

Conditions at Time of Application of EGC Liquid.

It is essential that turf condition will allow percolation of EGC Liquid through the root zone to a depth of at least 10 cm. Irrigate between 5-10mm immediately after application depending on conditions at the time.