



Advanced Biocontrol for Professional Horticulture

For control of the larval stages of black vine weevil (*Otiorhynchus sulcatus*) present in soil or container-grown crops

Contains the beneficial nematode *Heterorhabditis bacteriophora* (82%) and an inert carrier with water (18%)

Product suitable in organic farming according to RCE n° 834/2007

Recommended Rates

Application method	Application volume	Application	Dose	Pack size 50 million	Pack size 250 million
Open soil	4 litres/m ²	Curative	1,000,000/m ²	50m ²	250m ²
Pots/Containers	4 litres/m ²		500,000/m ²	100m ²	500m ²
Strawberry	100 ml/plant		25,000/plant	2,000 plants	10,000 plants

The table below gives volumes of diluted Seeka® required for individual pots of different sizes, using the recommended pot rate of 125,000 nematode / litre of water. Note that the nematode volume per pot (ml/pot) decreases as the pot volume increases. The dose rate is related to the surface area.

Pot volume (L)	Drench (ml)/pot	Nematodes/pot	Pots treated/ 50 million pack	Pots treated/ 250 million pack
1	46	5,750	8,708	43,542
2	81	10,125	4,940	24,702
5	166	20,750	2,404	12,020
7.5	226	28,250	1,773	8,863
10	278	34,750	1,437	7,187
12	317	39,625	1,263	6,315
14	353	44,125	1,135	5,673
16	386	48,250	1,036	5,180
18	418	52,250	958	4,788
20	448	56,000	894	4,469
22	476	59,500	841	4,203
25	516	64,500	776	3,879
30	576	72,000	695	3,474
35	629	78,625	636	3,179
40	677	84,625	591	2,954
45	720	90,000	556	2,778

Directions for use

- Remove all fine filters (50 mesh or smaller) from the application equipment.
- Partly fill the tank with cool, clean water. Start the agitator and keep running until application is completed.
- Empty one tray into a bucket and add a minimum of 10 litres water.
- Stir the contents thoroughly making sure the entire product is mixed.
- Add nematode suspension into the tank through its sieve.
- Fill tank to the required water level.
- Apply dose immediately to the whole crop at the appropriate rate.
- Irrigate immediately after application to disperse nematodes into the soil; do not irrigate to cause run off from the tops of pots.

Safety precautions

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.

Knapsack sprayer (suitable for 50 million packs only):

- Make up stock solution; suspend one 50 million tray of Seeka® in 10 litres water in a clean graduated bucket. Agitate the stock solution and dilute as follows:
- For open soil use 1 part stock solution + 19 parts water.
 - For pots/containers use 1 part stock solution + 39 parts water.
 - Keep solution agitated and apply immediately.

Dosing unit application (Suitable for 50 and 250 million packs):

- Set injection rate on dosing unit (normally 1%).
- Considering the injection rate, area to treat, and recommended rates, calculate number of nematodes and volume of water required in concentrate bucket. Make up concentrate solution of nematodes in the calculated volume of water. Mix thoroughly to ensure that the nematodes are well dispersed. NOTE: If the solution is too viscous add an additional known volume of water and adjust the injection rate accordingly.
- Start application ensuring the correct volume of water is being applied per unit area. Throughout application ensure that the nematode solution remains agitated.

Drip irrigation application:

- Repeatedly rotate through irrigation blocks in field.
- Allow enough time for nematodes to reach intended area of crop.
- Flush system with enough water to wash nematodes out of irrigation pipes.
- Consult your supplier to determine suitability of your drip irrigation system.

Application conditions For optimum results:

- Treatment should be applied when black vine weevil larvae and pupae are present.
- Soil or media temperatures should be between 12°C and 30°C for at least two weeks after application.
- The soil or media should be moist.
- Routinely treat new material coming onto the nursery that may contain black vine weevil larvae.
- If product is applied over foliage, irrigate immediately with water to wash the nematodes into the soil.
- Drench application: preferred method, especially where crop canopy is dense.
- Strawberry application: drench each plant individually, direct application around the base of each plant avoiding run off.

Precautions

- Agitate nematodes constantly during application.
- Do not use product if past expiry date or incorrectly stored.
- For information relating to which chemicals are compatible with Seeka® ask your distributor.
- Once opened, use each entire tray immediately (do not sub-divide or store opened packs or mixed suspension).
- Seeka® persists for approximately four weeks; larvae emerging from eggs laid after this time may be poorly controlled.
- Seeka® will not control black vine weevil adults.
- Do not exceed 300 psi/20 bar/2000 kPa pump pressure.
- Nozzle aperture should be greater than 0.5 mm
- Suitable nozzles should produce a medium or coarser spray at the intended application pressure.

Storage and disposal

Storage: Upon receipt, use immediately or store in a refrigerator at or under 5°C. DO NOT FREEZE. Avoid the constant opening of the fridge to minimize temperature fluctuations and do not overfill to allow the movement of cold air. Use entire contents of pack at one time. Do not split or subdivide individual packs as each contains a measured dose of nematodes. Do not store diluted product. KEEP OUT OF REACH OF CHILDREN. THESE PRODUCTS CONTAIN LIVING ORGANISMS THAT REQUIRE SPECIAL HANDLING AND APPLICATION PROCEDURES. FOLLOW THESE INSTRUCTIONS CAREFULLY TO OBTAIN MAXIMUM ACTIVITY.

Disposal: Product and packaging waste resulting from the use of this product, or unused, outdated product, may be disposed of on site or at any approved waste disposal facility in accordance with local regulations.

Warranty disclaimer

ICL warrants that this product conforms to the description on the label and is reasonably fit for the purpose stated on the label when used in accordance with the directions. ICL DISCLAIMS ALL OTHER WARRANTIES, EITHER EXPRESS OR IMPLIED INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Remedies

The remedy for injury or damage for this product is limited to, in ICL sole discretion, replacement of the product or refund of the purchase price paid. Under no circumstance shall ICL be liable for incidental, consequential or special damages.

Limitation of liability

No one is authorized to change or supplement, whether verbally or in writing, the statements contained on the label. ICL and the seller are not liable for personal injury or property damage or loss, including crop damage or lack of performance, due to circumstances beyond their control. ICL does not accept liability for a product user's failure to comply with the directions for use. Buyer and user assume all risks for these events.

www.icl-protect.co.uk / www.icl-protect.ie

ICL,
Epsilon House, West Road, Ipswich, Suffolk, IP3 9JF
Tel: +44 (0)1473 237 111

Emergency Information (24 hour Freephone)

00 49 180 2273112

Technical Enquiries 0845 602 2553 (office hours)

