

INSECTICIDE / FUNGICIDE / GROWTH STIMULANT

SB PLANT INVIGORATOR



Contains Foliar Lattice, Linear Sulphanate, 0.37%w/w Iron Chelate (Fe), 9.57% w/w Nitrogen (N) and natural products*.

Controls a wide range of important pest species including whitefly, aphid, spider mite and mealybug.

Controls powdery mildew.

A plant stimulant.

The product works as an insecticide / acaricide / fungicide by physical means and is exempt from registration under the UK pesticides regulations.

Can be used on all edible and ornamental crops.

No harvest interval.

Biodegradable and non-toxic.

Plant wash for a cleaner shiny appearance.

Helps to prevent chlorosis and improves leaf colour.

fargro[®]

Fargro Ltd
Toddington Lane
Littlehampton
West Sussex
BN17 7PP
Tel: 01903 721591
Fax: 01903 730737
www.fargro.co.uk

ALWAYS READ THE LABEL.

SB PLANT INVIGORATOR

- Controls a wide range of important pest species by physical means.
- Exempt from registration as a pesticide and therefore requires no certification in pesticide use.
- Plant stimulant and foliar feed - helps prevent chlorosis and improves leaf colour.
- Usable on edible and ornamental crops.
- No harvest interval required.
- Can be used as a plant wash to give a cleaner shiny appearance.
- Can control powdery mildew.
- Biodegradable and non toxic.
- Suitable for use throughout the year.

The following text is taken from the label:

DIRECTIONS FOR USE

CONTROLS a wide range of important pest species that include whitefly, aphid, spider mite and mealybug. Due to the physical mode of action these pests will not become resistant to SB PLANT INVIGORATOR if correctly applied.

- ✓ Pests will not become resistant.
- ✓ Helps prevent chlorosis and improves leaf colour and vigour.
- ✓ Plant wash for a cleaner, shiny appearance.
- ✓ Excellent shelf life.

DIRECTIONS

SHAKE BOTTLE WELL BEFORE USE.
Add required amount to water and stir well.
Only apply diluted.
Do not exceed the appropriate application rate.
Apply using a fine to medium spray.
To achieve maximum effectiveness ensure product is applied thoroughly to upper and lower leaf surfaces on a weekly basis.

Re seal container after use.
Protect from frost
Store out of direct sunlight above 0°C and below 30°C.

DILUTION RATE

For best results repeat spray weekly.

Professional formulation: 2 ml / litre water.

Garden / Retail: 10 ml / litre water.

*(The concentrations and rates of use differ see pack size information).

NOTE

- Do not mix with any other product - mix only with water.
- Ensure spraying equipment is washed out before use.
- Do not spray open blooms as some staining of petals may occur.
- Some varieties may be susceptible to scorch especially in hot conditions (advisable to spray small trial area first).

PRECAUTIONS

Keep concentrate off skin and away from eyes.

If splashed in eyes wash in clean water.

If hands or bare skin in contact with concentrate for prolonged period wash in soapy water.

Keep concentrate out of reach of children, animals and wildlife.

Keep concentrate away from foodstuffs and aquatic life.

TECHNICAL NOTE FOR SB PLANT INVIGORATOR

There is an ongoing trials programme which so far has revealed the following guidance for use.

PESTS AND DISEASE CONTROLLED

Trials work has shown a broad range of pest species can be controlled including: Aphids (a wide range of species), whitefly, spider mites, mealybugs, hard scale, soft scale, bay sucker psyllids and also powdery mildew.

MODE OF ACTION

There is no residual effect. The product works by physical means and is only effective when in direct contact with the pest.

Two separate modes of action have been observed:

- adult whitefly have been observed to stick by the wings to any surface they make contact with.
- aphids, juvenile whitefly and spider mite if directly hit are trapped by its wetness.

On mealybug an initial application removed the protective wax and a second application killed them.

Note aphids that did not drown before the treatment air dried appeared to recover.

FREQUENCY OF APPLICATION

Weekly or fortnightly applications are recommended to ensure plants remain pest free and healthy. This may seem excessive but this is not only protecting the plants from a wide range of pests and powdery mildew but is also providing them with nutrients through foliar feeding.

It is advisable to treat plants heavily infested with pests at 2 or 3 day intervals before weekly or fortnightly applications commence. This ensures that difficult to control

stages of the pest - eggs and pupae are dealt with and large amounts of protective wax produced by some species such as mealybugs, woolly aphid, mealy cabbage aphid etc. is overcome.

Heavy infestations of red spider mite will also require 2 or 3 repetitive applications to overcome the protective webbing and difficult to control eggs.

Weekly applications can effectively prevent powdery mildew from infesting plants as well as controlling an infestation.

CROP SAFETY

SB PLANT INVIGORATOR has been extensively tested at the recommended dose rate and frequency on many plant species and varieties to determine their susceptibility to phytotoxicity.

These include plants within the following families:

Asteraceae (Compositae) (eg aster, *Ageratum*, *Dahlia*, sunflower, lettuce etc.).

Caprifoliaceae (eg honeysuckle).

Chenopodiaceae (eg sugarbeet, beetroot, spinach etc.).

Convolvulaceae (eg *Ipomoea*, sweet potato, morning glory etc.).

Cucurbitaceae (eg melon, cucumber, pumpkin, squash, marrow etc.).

Euphorbiaceae (eg *Euphorbia*, *Croton*, Poinsettia).

Fabaceae (Leguminosae) (eg peas, beans, lupin, trefoil, clover etc.).

Geraniaceae (eg *Geranium*, *Pelargonium* etc.).

Iridaceae (*Freesia*, *Gladioli* etc.).
Liliaceae (eg *Asparagus*, onion, garlic, chives, lilies etc.).
Malvaceae (eg *Abutilon*, cotton, *Hibiscus*, *Malva* etc.).
Musaceae (eg banana).
Orchidaceae (orchids).
Poaceae (Gramineae) (eg grasses, maize etc.).
Primulaceae (eg *Primula*, primrose, *Cyclamen* etc.).
Rosaceae (eg rose, *Prunus*, apple, strawberry etc.).
Solanaceae (eg pepper, tomato, potato, chilli, *Datura*, *Nicotiana*, aubergine).
Vitaceae (eg grape).

WARNINGS

Although no adverse effects have yet been recorded on any of the plants tested the following points should be noted if SB PLANT INVIGORATOR is used more often than the recommended frequency:

- Frequent applications may result in a concentration of product where treatments dry at the run-off points. This could result in the appearance of small brown staining on some leaf and petal edges and on the bottom of some fruits. In most cases this is not permanent and if necessary can be removed by washing in water.
- Frequent applications on certain delicate plant species might result in a small amount of leaf and petal scorch where the product accumulates at run off points.

SB PLANT INVIGORATOR is manufactured in Guernsey by Stan Brouard Limited. Patent pending.

Stan Brouard Limited
 Landes du Marche
 Vale
 Guernsey
 GY1 3FE
 United Kingdom
 Telephone 01481 252521
 Fax 01481 253154

SB PLANT INVIGORATOR can remove chemical residues from spray equipment that has not been thoroughly cleaned. Application of these residues whilst spraying could result in leaf and petal scorch.

This may also occur if SB PLANT INVIGORATOR is applied to plants that have recently been sprayed with other products since the washing action of SB PLANT INVIGORATOR could concentrate previous treatments at the run-off points on leaves and petals and cause scorching.

The manufacturer strongly recommends that when SB PLANT INVIGORATOR is used for the first time a small area of the plant or crop is tested first.

EFFECTS ON BENEFICIAL INSECTS

Studies so far have shown SB PLANT INVIGORATOR to be compatible within an integrated pest management programme where beneficial insects are used.

Parasitic wasps developing within aphid and whitefly mummies do not appear affected.

Soil dwelling predatory mites such as *Hypoaspis* do not appear affected although leaf dwelling mites *Amblyseius* and *Phytoseiulus* are affected by multiple applications.

Robust predators such as ladybirds, mirid bugs, hoverfly and lacewing larvae appear unaffected.

Bumble bees appear unaffected.

Pack Sizes:

Professional formulation: 1 litre outer of 10
 5 litre outer of 4
 25 litre

Garden / Retail formulation: 500 ml outer of 20
 250 ml outer of 25

Ready to use formulation: 500 ml x 22

* The declared contents on page 1 refers to the professional product only.

Safety data sheet available on request.

Distributed in the UK mainland by Fargro Ltd.

© 2006 Copyright of Fargro and its suppliers.