

# INSECTICIDE / FUNGICIDE

## SB PLANT INVIGORATOR

Contains a unique blend of plant safe, physical pest control surfactants.

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

Controls powdery mildew.

**The product works as an insecticide / acaricide / fungicide by a physical mode of action.**

Can be used on all edible and ornamental crops.

No harvest interval.

Pests will not become resistant.

Plant wash for a cleaner shiny appearance.



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**ALWAYS READ THE LABEL.**

# SB PLANT INVIGORATOR

- Controls a wide range of important pest species by physical means.
- Usable on edible and ornamental crops.
- No harvest interval required.
- Can be used as a plant wash to give a cleaner shiny appearance.
- Controls powdery mildew.
- 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, mealybug, scale and psyllid. Due to the physical mode of action these pests will not become resistant to SB PLANT INVIGORATOR.

**For use on all edible and ornamental crops.**

- ✓ Physical mode of pest and mildew control.
- ✓ Pests will not become resistant.
- ✓ No harvest interval.
- ✓ Suitable for use throughout the year.
- ✓ Plant wash for a cleaner, shiny appearance.
- ✓ Excellent shelf life.

## DIRECTIONS

SHAKE BOTTLE WELL BEFORE USE.

To avoid excessive foaming put required amount of water into spray tank and add SBPI, then agitate well. Only apply diluted. Do not exceed the appropriate application rates. For maximum effect spray the upper and lower leaf surfaces thoroughly on a weekly basis. Reseal container after use. Store out of direct sunlight above 10°C and below 25°C.

**For best results spray weekly.**

**DILUTION RATE:**

**Professional formulation:**

**100ml concentrate to 100 litres water.**

**Garden / Retail:**

**10 ml concentrate to 1 litre water.**

(The concentrations and rates of use differ see pack size information on page 4).

**NOTE:**

Ensure spraying equipment is washed out

before use. Some varieties may be susceptible to scorch, especially in hot conditions (advisable to spray small trial area first). We cannot accept liability that directly or indirectly results from using, transporting and/or stocking this product.

**Warnings and precautions for the professional and garden / retail formulations:**



### Warning

Causes skin irritation  
Causes serious eye irritation.

**Precautionary Statements:**

Wear protective gloves.

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Do not eat drink or smoke when using this product.

Keep out of reach of children.

If medical advice is needed, have product container or label at hand.

**Precautions for the ready to use formulation:**

Keep spray off skin and away from eyes.

If splashed in eyes or on skin wash in clean water.

Keep out of reach of children.

# 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 controlled them.

## FREQUENCY OF APPLICATION

Weekly or fortnightly applications are recommended to ensure plants remain pest free and healthy.

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.).

**Brassicaceae** (eg cabbage, turnip, rape, swede, broccoli 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, cycla-

men etc.)

**Rosaceae** (eg rose, *Prunus*, apple, strawberry etc.).

**Solanaceae** (eg pepper, tomato, potato, chilli, *Datura*, *Nicotiana*, aubergine).

**Vitaceae** (eg grape).

No adverse effects have been recorded on any of the plants tested.

### FURTHER ADVICE

Make sure all spraying equipment is washed clean of previous chemical residue before mixing and applying SB PLANT INVIGORATOR.

Due to the washing action of SB PLANT INVIGORATOR other products that have previously been sprayed may concentrate previous treatments at the run-off points on leaves and petals and cause scorching.

### 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.

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SB PLANT INVIGORATOR has a physical mode of action and is not required to be registered as a plant protection product.

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

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**Pack Sizes:**

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

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

**Ready to use formulation:** 500 ml x 20

Safety data sheet available on request.

**Distributed in the UK mainland by Fargro Ltd.**

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