



# Swirskiline

## Bugline

**HIGHLY EFFICIENT THRIPS  
AND WHITEFLY CONTROL IN  
CROPS**



## INTRODUCING BIOLINE AGROSCIENCES' SWIRSKILINE BUGLINE — EFFECTIVE THRIP AND WHITEFLY PREVENTION AND CONTROL IN VEGETABLES, FRUIT AND FLOWERS.

Swirskiline Bugline is a unique delivery system for controlled release sachets, which has been developed by Bioline as a key treatment for pests in flower crops such as gerbera. It can be laid onto the crop along the row. Collection of used strips is by pulling the line from the gangway. This can save many man hours per hectare compared to using single sachets.

Bugline tolerates overhead watering, and ensures that *Amblyseius swirskii* mites are released continuously in environments where normal sachets would not perform well. The breeding system in the sachets means that mites are released over a period of weeks and the predators are not reliant on food being present on the crop for establishment.

### WHY TRY SWIRKSILINE BUGLINE?

- Can be mechanically laid onto crop wires.
- Water runs off top surface.
- Emergence hole stays dry on lower surface.
- No hook to get wet!
- Continuous emergence even with overhead irrigation.
- The key treatment for whitefly control.
- Strong side effect on thrips.

### WHICH CROPS DOES SWIRSKILINE BUGLINE PROTECT?

- Peppers
- Cucumbers
- Gerbera
- Aubergine
- Roses

### WHICH PESTS DOES SWIRSKILINE BUGLINE CONTROL?

- Western Flower thrips
- Chili thrips
- Onion thrips
- Greenhouse whitefly
- Silverleaf/Potato whitefly

## GET TO KNOW SWIRSKILINE BUGLINE...

**1**

*Amblyseius swirskii* is native to the coastal regions of the Middle East and North Africa on fruit trees.


**2**

Swirskiline is an ideal product to be used in crops that are grown under protection in warm conditions.

**3**

It can be used on other crops during the summer, provided that average daytime temperatures exceed 20°C.

**Swirskiline Bugline — Highly efficient thrips and whitefly control in crops.**

	DESCRIPTION	PRODUCT CODE
	<p>Works well in crops watered by overhead irrigation because water runs off outer surface while the emergence hole stays dry on lower surface.</p> <p>Bugline is especially useful in a cut flower operation such as cut chrysanthemums where Bugline can be placed on top of the crop support mesh wiring.</p>	<p><b>6x100m (250,000):</b> <b>P0015-07</b></p>

## SWIRSKILINE BUGLINE ROLL



### STORAGE AND HANDLING

1. KEEP OUT OF DIRECT SUNLIGHT.
2. TRANSPORT AND STORE ABOVE 10-15°C.
3. USE WITHIN 18 HOURS OF RECEIPT.
4. DO NOT COLD STORE BELOW 10°C.

### HOW AND WHERE TO USE

**Introduce Swirskiline early in the crop/pest cycle to protect against pest build up. But, only when average temperatures are above 20°C.**

#### **For Bugline:**

1. Distribution of the strips can be done by attaching to the irrigation boom and pulling strips from the box down the greenhouse bay or manually by pulling it into the crop.
2. Make sure the crop and floor are dry when applied. If crop and/or floor are wet, water can enter Bugline through the holes, and could result in some predatory mites within the cells being lost.