

Insecticide

# FLIPPER®

FLIPPER® is a contact insecticide for the useful control of whitefly, aphids and two-spotted mite on a range of protected crops.

**An insecticide containing 479.8 g/litre (47.8% w/w) emulsion in water (EW) Fatty Acids (Potassium salts).**

**For use as a Horticultural insecticide and acaricide. For Professional use only.**

**Authorisation holder:**  
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(charged as a standard international call to the UK)

**National Poisons Information Centre  
Dublin: 01 809 2166**

PROTECT FROM FROST

10L e

Safety information

## FLIPPER

UFI: J960-4051-0004-4TM3  
Contains 479.8 g/litre (47.8% w/w)  
Fatty Acids (Potassium salts).



### Warning

**Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.  
Harmful to aquatic life with long lasting effects.**

Do not breathe fumes/gas/mist/  
Vapours/spray.  
Wear protective gloves/protective  
clothing/eye protection/face  
protection.  
IF IN EYES: Rinse cautiously with  
water for several minutes. Remove  
contact lenses if present and easy  
to do – continue rinsing.  
If eye irritation persists: Get  
immediate medical advice/attention.  
IF ON SKIN: Wash with plenty of  
soap and water.  
If skin irritation occurs: Get medical  
advice/attention.  
Take off contaminated clothing and  
wash before reuse.  
IF INHALED: Remove person to  
fresh air and keep comfortable for  
breathing.

Store in a well-ventilated place.  
Keep container tightly closed.  
Dispose of contents/container to a  
licensed hazardous-waste disposal  
contractor or collection site except  
for empty triple rinsed containers  
which can be disposed of as non-  
hazardous waste.  
Do not contaminate water with the  
product or its container. (Do not clean  
application equipment near surface  
water / Avoid contamination via  
drains from farmyards and roads.)

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

PCS No. 05027

IE87272095b rA1a



# FLiPPER®

IE87320405b rA1a

## SAFETY PRECAUTIONS

### Operator Protection

Wear suitable protective clothing (coveralls), suitable protective gloves and face protection (faceshield) when handling the concentrate.

FLiPPER® has a reduced re-entry period, following application. Re-entry may occur as soon as the crop has dried.

When using do not eat, drink or smoke. Avoid all contact with skin.

Wash concentrate from skin or eyes immediately.

Wash hands and exposed skin before eating and drinking and after work.

Do not breathe spray.

If you feel unwell, seek medical advice (show label where possible).

### 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 farmyards and roads.

### Storage and Disposal

Keep away from food, drink & animal feeding stuffs.

Keep out of reach of children.

Keep in original container, tightly closed, in a safe place. Store in a well-ventilated place.

Wash out container thoroughly, empty washings into the spray tank and dispose of safely.

Do not re-use container for any purpose.



To access the **Safety Data Sheet** for this product scan the code or use the link below:

[www.bayercropscience.ie/sds/flipper.pdf](http://www.bayercropscience.ie/sds/flipper.pdf)

or alternatively contact your supplier

## DIRECTIONS FOR USE

Important: This information is authorised 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.

### Rates of use

**FLiPPER may only be used in a permanent glasshouse.**

<b>Crops:</b>	Tomato (Permanent protection with full enclosure) Cucumber (Permanent protection with full enclosure) Strawberry (Permanent protection with full enclosure)
<b>Maximum individual dose</b>	16L product per hectare with a maximum concentration of 1.6L per 100L water.
<b>Maximum number of treatments</b>	5 per crop.
<b>Frequency of applications</b>	Apply every 7 days as required by pest pressure but do not apply more than three weekly applications consecutively
<b>Application timing:</b>	Any time – No restriction
<b>Latest time of application</b>	No restrictions.

#### **Other specific restrictions:**

1. Treatment must only be made under 'permanent protection' situations which provide full enclosure (including continuous top and side barriers down to below ground level) and which are present and maintained over a number of years.
2. Reasonable precautions must be taken to prevent access of birds, wild mammals and honey bees to treated crops.
3. To minimise airborne environmental exposure, vents, doors and other openings must be closed during and after application until the applied product has fully settled

**IMPORTANT:** FLiPPER® is a contact insecticide.

Ensure good coverage of the pest and placement of the spray, paying particular attention to the underside of leaves and to growing points.

FLiPPER® has a zero day harvest interval for the crops on which its use is recommended.

### **Restrictions or warnings**

Due to the large number of species and cultivars grown, crop safety should first be determined by treating a small number of plants. Crop damage may occur when FLiPPER® is applied under very high temperatures.

### **Pests Controlled**

FLiPPER® will provide useful control of whitefly (*Trialeurodes vaporariorum*, *Bemisia tabaci*, *Aleurothrix floccosus*), aphid (*Myzus persicae*, *Macrosiphum euphorbiae*, *Aphis gossypii*) and two-spotted mite (*Tetranychus urticae*) populations.

FLIPPER will control insects resistant to other insecticides. The impact in IPM/ICM programmes has not been established.

### **Crop Specific Information**

Application rate: 1–1.6 litres per 100 litres water. For optimal effectiveness, such as high pest pressures, a dose rate of 1.6L/100 litres may provide enhanced levels of control.

**Water Volume:** Apply in a volume of water sufficient to achieve total coverage of the target foliage. Normally 400–1000 litres per hectare for smaller plants and 1000–1600 litres per hectare for larger plants with dense foliage.

**Timing:** For optimum control, apply at the very first signs of pest emergence so that population build up is prevented through targeting the eggs and the very young larval stages. Highest levels of control will be achieved when applied during warmer, faster drying conditions.

**Frequency of applications:** Apply every 7 days as required by pest pressure.

### **Mode of action**

FLIPPER® is active on eggs, larvae and adult insects. Levels of control achieved will depend on the pest stage and weather conditions at the time of application.

FLIPPER® has no residual insecticidal activity therefore repeat applications may be required according to pest pressure with a minimum of 7 days between applications.

### **Resistance**

There are no reports of resistance to FLIPPER® however it is good practice to use such products as components of Integrated Pest Management systems, alternating with other control measures. This is particularly important for sequential crops.

## **MIXING & SPRAYING**

### **Mixing**

Thoroughly wash and clean the spray tank before adding FLIPPER®. Half fill the spray tank with water. Add the required quantity of FLIPPER® rinsing the container twice with fresh water and pouring the residue into the spray tank. Top up the spray tank with water. The product mixes readily with water and does not require vigorous agitation. Use of an agitator may cause the formation of foam.

**Important:** Use the freshly mixed spray straight away. Ideally apply using soft water or collected rainwater.

**Hard Water:** Use water with low salt content or rainwater. If only hard water is available, preliminary testing is recommended. If water hardness exceeds 350 ppm and in case floccules are produced, a water conditioner (softener) must be used. When using a buffering agent do not lower the pH of the final spray mixture below 8.0.

### **Compatibility**

FLIPPER® is physically compatible with a wide range of formulated products. For a full list of compatibilities consult the manufacturer or local distributors.

Before mixing with other plant protection products, it is recommended to test compatibility on a small scale. Do not combine with acidic formulations, foliar fertilizers, formulations containing sulfur ions or chelates, fosetyl-aluminum, cypermethrin, or metal ions. These combinations may be incompatible and cause phytotoxicity.

In case of mixing with all kinds of products FLIPPER® must always be the last component added in the mixture.

## **Storage**

Do not store diluted product.

Store concentrate in original container at ambient temperature in a dry place.

Protect concentrate from frost. Storage below 10°C may cause crystallization to occur.

This is completely reversible and will not affect the effectiveness of the product.

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