



# VELUM<sup>®</sup> PRIME

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**GROUP N3 NEMATICIDE**

**A agricultural insecticide/nematicide for use in carrots and potatoes as a broadcast spray/incorporation treatment at or before planting/drilling.**

A suspension concentrate formulation containing 400 g/L fluopyram

For Professional use only



**Authorisation holder:**  
Bayer CropScience Limited  
230 Cambridge Science Park  
Milton Road, Cambridge CB4 0WB  
United Kingdom

**Marketing company:**  
Bayer CropScience Ltd  
Bayer Ltd, 1st Floor,  
The Grange Offices, The Grange, Brewery  
Road, Stillorgan, Co. Dublin A94 H2K7  
Freephone: 1800 818534

**For 24 hour emergency information  
contact Bayer CropScience Ltd.  
Telephone: 00800 1020 3333**



#### Safety Information

#### VELUM PRIME

UFI: JPW1-X0FX-G00Y-J527

Contains 400 g/L fluopyram.



#### Toxic to aquatic life with long lasting effects.

Wear protective gloves.

If skin irritation or rash occurs: Get medical advice/attention

Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste.

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

Contains 1,2-benzisothiazolin-3-one, reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1). May produce an allergic reaction.

PCS No. 05686

#### SAFETY PRECAUTIONS

##### Operator Protection

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), FACE PROTECTION (FACESHIELD) AND SUITABLE PROTECTIVE GLOVES ) when handling the concentrate. WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) when applying the product.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

WHEN USING DO NOT EAT, DRINK OR SMOKE. WASH HANDS AND EXPOSED SKIN before meals and after work.

IF YOU FEEL UNWELL, seek medical advice (show the label where possible).

Do not apply by hand held equipment.

##### 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 AND ANIMAL FEEDINGSTUFFS.

KEEP OUT OF REACH OF CHILDREN

KEEP IN ORIGINAL CONTAINER tightly closed in a safe place.

WASH OUT CONTAINER THOROUGHLY, empty washings into 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/velumprime.pdf](http://www.bayercropscience.ie/sds/velumprime.pdf)

or alternatively contact your supplier

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**IMPORTANT:** This information is approved 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.

PROTECT FROM FROST

Velum Prime may be used on all commercial varieties of carrots and potatoes.

Crop	Maximum individual dose:	Maximum number of applications	Latest time of application
Carrots (spray and incorporation)	0.625 litres product per hectare	1 per crop	0–10 days before sowing
Potatoes (spray and incorporation)	0.625 litres product per hectare	1 per crop	0–3 days before sowing
Potatoes (In furrow at planting)	0.625 litres product per hectare	1 per crop	At planting

Method of application	Broadcast spray followed by incorporation or a spray in furrow application
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A spray pressure of 2–3 bar is recommended.

For further advice on the application of Velum Prime please contact Bayer CropScience Ltd.

Add the required quantity of Velum Prime to the half-filled spray tank with the agitation system in operation and then fill to the required level. Continue agitation at all times during spraying and stoppages until the tank is completely empty. Spray immediately after mixing.

Sprayers should be thoroughly cleaned with water and detergent after use, and filters and jets checked for damage and blockages.

Yellow Potato Cyst Nematode (*Globodera rostochiensis*) and White Potato Cyst Nematode (*Globodera pallida*).

Root-knot nematode (*Meloidogyne* spp.), Carrot cyst nematode (*Heterodera carotae*), Root lesion nematode (*Pratylenchus penetrans*), Stunt nematode (*Tylenchorhynchus* spp.), Stubby root nematode (*Trichodorus* spp.).

Do not apply more than 250 g/ha Fluopyram via soil treatment per calendar year, Velum Prime can be incorporated into the soil every second year.

Apply Velum Prime as a Broadcast Spray / incorporation in February to June up to maximum of 10 days prior to drilling in 200–1000 Litres of water per hectare. Soil incorporation must be made to a depth of 10–20 cm.

If the crop is intended for processing consult the processor before the use of Velum Prime.

Apply Velum Prime as a Broadcast Spray / incorporation in February to June up to a maximum of 3 days prior to planting in 200–800 Litres of water per hectare. Soil incorporation must be made to a depth of 10–20 cm.

Alternatively an in-furrow spray can be applied at planting in 200 Litres of water per hectare.

Where Velum Prime is applied as an in-furrow treatment application should be made using two nozzles per row—one at the front of the planting share and directed down into the furrow and the second at the rear of the share and directed so to spray the soil as it closes around the planted furrow.

If the crop is intended for processing consult the processor before the use of Velum Prime.

Cardoons, celeries, Florence fennels and crops belonging to the category 'other stem vegetables' cannot be allowed as succeeding crops.

### **RESISTANCE STRATEGY**

Velum Prime contains fluopyram (pyridinyl-ethyl-benzamide). As nematicides are not included in the mode of action classification scheme of IRAC, fluopyram is not assigned to any mode of action class by IRAC. However, fluopyram also controls certain plant pathogens and is classified by FRAC as a member of the Succinate-Dehydrogenase Inhibitor (SDHI) group of fungicides. A resistance management strategy in the crops where Velum Prime is applied also requires consideration of uses other of Succinate-Dehydrogenase Inhibitors (SDHI) for disease control.

### **Nematode Resistance**

Velum Prime contains an active ingredient with a new mode of action for use as a nematicide. The resistance risk in nematodes is considered to be low based on experience of the use of organophosphates.

### **Carrots**

An application of Velum Prime should count as one of the total foliar SDHI's applied to the crop.

Where Velum Prime has been applied the first foliar fungicide application made to the crop must not be a member of the SDHI group. Continue foliar applications with alternating fungicidal MoAs for the remaining growing period.

### **Potatoes**

Where Velum Prime has been applied the first foliar fungicide application made to the crop must not be a member of the SDHI group.

For further advice on resistance management contact your agronomist, or specialist advisor.

### **Company Advisory Information**

Velum Prime may be used on all commercial varieties of carrots and potatoes. Whilst no additional data (crop safety and efficacy) has been provided, crops grown under plastic can be treated with Velum Prime at the growers risk.

### **Incidental effect on Sclerotinia sclerotiorum in carrots**

When Velum Prime is applied for nematode control in carrots an incidental effect on the reduction of Sclerotinia infection can be observed. Velum Prime applications in carrots must not target Sclerotinia.

### **Additional Application advice on soil incorporation techniques**

#### **Carrots**

It is essential that Velum Prime is thoroughly incorporated into the soil to a minimum depth of 10–20 cm. This will usually be achieved by the cultivation practices in advance of drilling. If there is any doubt about a particular pre-drilling cultivation methods to be employed contact your agronomist or Bayer CropScience.

In situations where a de-stoned /de-clodded tilth is required, Velum Prime should always be applied to the de-stoned beds prior to bed-forming. Where front mounted sprayer systems are used, soil incorporation by the bed-former occurs immediately after application. Where these systems are not available, Velum Prime will be applied to the de-stoned beds using a conventional boom sprayer, again in advance of the bed-forming operation.

For carrots drilled 'on the flat' (not de-stoned and not into beds) product application should be made by a conventional boom sprayer prior to power harrowing to a depth of 10–20 cm.

Where a conventional boom sprayer has been used to apply the product to either the de-stoned beds or the flat soil surface, the soil incorporation must be made to a maximum of 10 days prior to drilling

#### **Potatoes**

It is essential that Velum Prime is thoroughly incorporated into the soil to a minimum depth of 10–20 cm. This will usually be achieved by the cultivation practices in advance of drilling. If there is any doubt about a particular pre-drilling cultivation method to be employed contact your agronomist or Bayer CropScience.

Where Velum Prime is applied as a Broadcast Spray the product should be applied to the whole field prior to rotorvator/bed tilling, either from an application system mounted to the same tractor as the tilling machine, or by a conventional boom sprayer making an application in advance of the bed tiller. The bed tiller must ensure all the sprayed area is incorporated to a minimum depth of 10–20 cm. The product should always be applied after any destoning operations. Where a conventional boom sprayer has been used to apply the product to either the de-stoned beds or the flat soil surface, the soil incorporation must be made to a maximum of 3 days prior to planting.

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