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READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Velum[®] Prime

NEMATOCIDE

ACTIVE CONSTITUENT: 400 g/L FLUOPYRAM

GROUP	N-3	NEMATOCIDE
GROUP	7	FUNGICIDE

For control of root knot and root lesion nematodes in root and tuber vegetables as specified in the DIRECTIONS FOR USE table

DIRECTIONS FOR USE**RESTRAINTS**

DO NOT apply by aircraft.

DO NOT apply if heavy rains or storms are forecast within 3 days.

DO NOT irrigate to the point of water runoff from the treatment area for at least 3 days after application.

SPRAY DRIFT RESTRAINTS

Specific definitions for terms used in this section of the label can be found at apvma.gov.au/spraydrift.

DO NOT allow bystanders to come into contact with the spray cloud.

DO NOT apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. The buffer zones in the relevant buffer zone table/s below provide guidance but may not be sufficient in all situations. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.

DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.

DO NOT apply if there are hazardous surface temperature inversion conditions present at the application site during the time of application. Surface temperature inversion conditions exist most evenings one to two hours before sunset and persist until one to two hours after sunrise.

Boom sprayers

DO NOT apply by a boom sprayer unless the following requirements are met:

- Spray droplets not smaller than a MEDIUM spray droplet size category.
- Minimum distances between the application site and downwind sensitive areas (see 'Mandatory downwind buffer zones' section of the following table titled 'Buffer zones for boom sprayers') are observed.

Buffer zones for boom sprayers

Application rate	Boom height above the target canopy	Mandatory downwind buffer zones				
		Bystander areas	Natural aquatic areas	Pollinator areas	Vegetation areas	Livestock areas
625 mL/ha	0.5 m or lower	0 m	0 m	0 m	0 m	0 m
	1.0 m or lower	0 m	0 m	0 m	10 m	0 m
1000 mL/ha	0.5 m or lower	0 m	0 m	0 m	0 m	0 m
	1.0 m or lower	0 m	0 m	0 m	10 m	10 m



DIRECTIONS FOR USE TABLE

CROP	PEST	RATE	CRITICAL COMMENTS
<p>Potatoes and sweet potatoes</p>	<p>Root knot nematode (<i>Meloidogyne</i> spp.)</p>	<p>625 mL/ha or 1 L/ha</p>	<p>Velum Prime should be applied as part of an integrated nematode management program which includes cultural practices and alternating with nematicides from different mode of action groups.</p> <p>Uniform incorporation of Velum Prime into the soil profile to the depth of the root zone is required to achieve maximum protection against nematodes.</p> <p>Only use the 625 mL/ha rate under circumstances where tolerance may be higher for tuber damage such as processing potatoes, under circumstances where nematode incidence is known to be lower or where Velum Prime is used in a nematicide control program with a nematicide from another mode of action group.</p> <p>Apply a maximum of 1 application of Velum Prime per year to the same cropping ground. Do not apply more than 400 g fluopyram/ha per year to the same cropping ground.</p> <p>Potato: Apply in-furrow at planting. Mount the spray nozzle so the spray is directed into the furrow at the seed as a 15-20 cm band applied just before seed is covered. Alternatively use a 2-nozzle system spraying the furrow prior to seed drop and after it as dropped just prior to covering. Apply Velum Prime in 1-3 L of water /100 m of row.</p> <p>To reduce the potential for seed piece breakdown, strictly follow label instructions regarding water volume and follow industry recommended seed piece handling and planting practices.</p> <p>Do not use Velum Prime on potato cultivars that will be harvested within 60 days of planting.</p> <p>Sweet potato: Apply through trickle or drip irrigation only within 14 days (ideally within 1-10 days) of planting or transplanting to protect the developing tubers from nematode damage. Alternatively, Velum Prime can be applied as part of a nematicide control program later in the season, but only after an earlier application or applications with nematicides from a different mode of action group to avoid early damage from nematodes. Do not apply later than 4 months after planting.</p> <p>Ensure ground is moist prior to incorporation of Velum Prime into trickle irrigation and utilise enough water to adequately flush Velum Prime through the lines and into the soil profile.</p> <p>Do not use Velum Prime on cultivars grown for the consumption of its leaves.</p>



CROP	PEST	RATE	CRITICAL COMMENTS
Root and tuber vegetables other than potatoes, sweet potatoes and aquatic root and tuber vegetables	Root knot nematode (<i>Meloidogyne</i> spp.), root lesion nematode (<i>Pratylenchus</i> spp.)	625 mL/ha or 1 L/ha	<p>Uniform incorporation of Velum Prime into the soil profile to the depth of the root zone is required to achieve maximum protection against nematodes. This can be done mechanically prior to sowing, or via irrigation immediately post sowing.</p> <p>Apply Velum as a broadcast application 0-3 days before sowing and mechanically incorporate into the soil or apply within 1 week of sowing and irrigate immediately into the soil. Do not apply later than 7 days after sowing. Apply in a minimum of 300 L/ha water volume to achieve uniform coverage of soil.</p> <p>Moist soil prior to either application technique is vital to achieve the maximum efficacy from Velum Prime. Ensure soil is moist prior to application.</p> <p>Only use the 625 mL/ha rate under circumstances where tolerance may be higher for nematode damage such as processing carrots and beetroot, or where Velum Prime is used in a nematocidal control program with a nematocidal from another mode of action group.</p> <p>Apply a maximum of 1 application of Velum Prime per year to the same cropping ground. Do not apply more than 400 g fluopyram/ha per year to the same cropping ground.</p> <p>Do not use Velum Prime on root and tuber vegetable cultivars that will be harvested within 60 days of planting, e.g. baby carrots and baby parsnips. Do not use Velum Prime on root and tuber vegetables grown for consumption of its leaves.</p>

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.

WITHHOLDING PERIODS

Harvest:

Root and tuber vegetables: NOT REQUIRED WHEN USED AS DIRECTED

EXPORT OF TREATED PRODUCE

Growers should note that suitable MRLs or import tolerances may not exist in all markets for produce treated with Velum Prime. If you are growing produce for export, please check with Bayer CropScience Pty Ltd for the latest information on MRLs and import tolerances and for advice on any potential trade issues and their management.

GENERAL INSTRUCTIONS

Mixing

Shake well before use. Half fill the spray tank with clean water. Pour in the required quantity of Velum Prime with agitators running, then top up with clean water. Use spray mixture immediately after preparation, do not allow it to stand.

Application

Potatoes

Velum Prime is to be applied as an in-furrow spray application at planting of potatoes. Ensure the spray nozzle is mounted so the spray is directed into the furrow. Ideally apply to furrow as a 15-20 cm band using a two-



nozzle system, spraying in the furrow prior to and post seed piece placement to ensure soil around tuber is treated.

To reduce the potential for seed piece breakdown, strictly follow label instructions regarding water volume and follow industry recommended seed piece handling and planting practices. Use only clean water.

To determine application volume in mL/100 m row for in-furrow treatment, work out meters of row per hectare based off row spacings, e.g.:

$$10,000 \text{ m} / \text{distance between rows (m)} = \text{meters of row per hectare}$$

An example of product per 100 m row calculation:

If applying 625 mL/ha of Velum Prime and your row spacing is 0.8 m (80 cm):

$$10,000/0.8 = 12,500 \text{ meters of row per ha} = 625 \text{ mL of Velum per } 12,500 \text{ meters of row.}$$

Worked back this is 0.05 mL of Velum per m of row ($625/12,500 = 0.05$), which equates to 5 mL/100 m row ($0.05 \times 100 = 5.0$).

For common row spacing:

Product application rate	Row spacing		
	75 cm	80 cm	90 cm
625 mL/ha	4.6 mL/100 m row	5.0 mL/100 m row	5.6 mL/100 m row
1 L/ha	7.5 mL/100 m row	8.0 mL/100 m row	9.0 mL/100 m row

Sweet potatoes (application by trickle or drip irrigation only)

Ensure irrigation system is approved for use for chemical injection, the system is operational and free of leaks and is correctly calibrated prior to application. Uniform application of solution to the targeted area of treated field is required to achieve optimal control. Consult with irrigation specialist if advice is needed on application of products through trickle tape. Water rates will vary depending on the type of irrigation used as well as soil and site parameters. Use only clean water. When applying Velum Prime, ensure the lines are fully primed and soil is already moist in the target root zone. Once soil in target area around trickle tape is moist apply Velum Prime into the system. Apply enough water to wash Velum Prime out of the system and into soil. The minimum injection period for the irrigation system (the minimum time required to move water from the injection point to the last emitter) can be used to monitor if the product has been moved through the lines. Ensure the system is thoroughly flushed post application to move the product into the full root zone of the soil profile. Velum Prime binds strongly to the soil profile provided it is washed into the growing area of the sweet potato tuber.

Root and tuber vegetables other than potatoes, sweet potatoes and aquatic root and tuber vegetables

Application should be by ground broadcast spray equipment only. Thorough and even coverage of soil is essential. Apply in sufficient volume of clean water to achieve uniform coverage of soil (minimum 300 L/ha), using suitable application parameters (nozzles, pressure, speed, etc.) to ensure thorough and even coverage. Use only a medium spray droplet size. Ensure soil is moist prior to application, and product is either incorporated by mechanical means or irrigated in post application.

Sprayer clean up

If clean up of spray equipment is required, rinse equipment twice with clean water after use.

Plant back interval requirements for rotational crops

The following plant back intervals (from the last date of treatment) are required for rotational crops:

Crop group	Plant back interval
Vegetables	None
Cereals, pulses, oil seed crops and pasture	7 months

COMPATIBILITY

For information on the compatibility of Velum Prime with other products, contact your local retailer or Bayer Crop Science representative.



RESISTANCE MANAGEMENT

GROUP	N-3	NEMATOCIDE
GROUP	7	FUNGICIDE

Although resistance in nematode populations has not been proven, repeated exclusive use of any product may lead to a reduction in control. Rotation with nematicides with a different mode of action is recommended. Velum Prime should be used as part of an Integrated Pest Management (IPM) program to control nematodes. IPM programs using cultural practices, monitoring or other detection methods, proper pest identification and rotation of nematicides with different modes of action will help prevent economic pest damage.

For fungicide resistance management fluopyram is a Group 7 fungicide. As such, Velum Prime may be subject to specific resistance management strategies which should be considered. For further information contact your local supplier, Bayer Crop Science representative, local agricultural department agronomist or refer to the CropLife Australia website.

PRECAUTION

Re-entry period

Do not enter treated areas until spray has dried. If prior entry is necessary, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers.

STORAGE AND DISPOSAL

Keep out of reach of children. Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight.

Triple-rinse container before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point.

If not recycling break, crush or puncture and deliver empty container to an approved waste management facility. If an approved facility is not available, bury the empty container 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. Do not burn empty containers or product. Do not re-use empty container for any other purpose.

SAFETY DIRECTIONS

May irritate the eyes. Avoid contact with eyes. When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing). Wash hands after use. After each day's use, wash contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet, which can be obtained from www.crop.bayer.com.au.

EXCLUSION OF LIABILITY

This product must be used strictly as directed, and in accordance with all instructions appearing on the label and in other reference material. So far as it is lawfully able to do so, Bayer CropScience Pty Ltd accepts no liability or responsibility for loss or damage arising from failure to follow such directions and instructions.

Velum® is a Registered Trademark of the Bayer Group.

APVMA Approval No.: 94142/141686

FOR 24 HOUR SPECIALIST ADVICE
IN EMERGENCY ONLY
PHONE **1800 033 111**

GHS STATEMENTS

Classification not required according to GHS criteria.