

Insecticide

SIVANTO[®]

prime

A contact, residual and systemic insecticide for the control of aphids in a wide range of agricultural and horticultural crops.

A soluble concentrate (SL) containing 200 g/L flupyradifurone.

For Professional use only.

3 L e



GROUP 4D INSECTICIDE



Safety information

SIVANTO[®] PRIME UFI: 6JG0-S0PW-200K-JPJ2
Contains 200 g/L flupyradifurone.

Danger

May cause an allergic skin reaction.

Causes serious eye irritation.

Harmful if inhaled.

May cause damage to organs (muscle) through prolonged or repeated exposure.

Very toxic to aquatic life with long lasting effects.

Can cause long-lasting and diffuse contamination of water resources.

Can cause very long-lasting and diffuse contamination of water resources.

Wear protective gloves/ protective clothing/eye protection/face protection.

Wear respiratory protection.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF exposed or concerned: Call a POISON CENTER or doctor/physician. Collect spillage. Dispose of contents/ container to a licenced hazardous-waste disposal contractor or collection site except for empty clean 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. 06634

IE87306674a rA1

SIVANTO[®]
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contact Bayer CropScience Limited**

+44 330 678 3382 (24 hr)

(charged as a standard international call to the UK)

National Poisons Information Centre Dublin: 01 809 2166



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

www.bayercropscience.ie/sds/sivanto-prime.pdf

or alternatively contact your supplier

SAFETY PRECAUTIONS

Operator Protection

When using do not eat, drink or smoke.

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

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

Environmental Protection

To protect birds, Sivanto Prime must be used in lettuce crops (field cultivation) with at least 500 litres of water per hectare, if applied from head formation or development of harvestable part (BBCH 41–49). The concentration of the active substance in the spray liquid may not exceed 0.025 kg active substance per hectolitre.

To protect bees, do not use this product in tank mixes with fungicides from the ergosterol biosynthesis inhibitor group (FRAC code 3 fungicide) on flowering crops or on non-flowering crops that are actively visited by bees.

To protect non-target insects/arthropods respect an unsprayed buffer zone of 10 m to non-crop land

and hedgerows when applying with orchard/blast sprayer.

To protect aquatic organisms, respect an unsprayed buffer zone of 10 m to surface water bodies when applying with orchard/blast sprayer.

To protect aquatic organisms, respect an unsprayed buffer zone of 5 m to non-intersecting surface water bodies when applying with horizontal boom sprayer.

Do not contaminate water with product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards or roads.

Storage and Disposal

Keep away from food, drink and animal feedingstuffs.

Keep in original container, tightly closed, in a safe place.

Rinse container thoroughly by using an integrated pressure rising device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely. Triple rinsed containers should be

punctured to prevent re-use and may be disposed of by an authorised contractor or at a municipal waste recycling site.

Do not re-use container for any purpose.

Keep out of reach of children.

DIRECTIONS FOR USE

IMPORTANT: This leaflet is approved as part of the label. All instructions on this leaflet and on the label should be read carefully in order to obtain successful results from the use of this product.

RATE OF USE

Crops	Application timing	Maximum single dose	Maximum number of applications	Maximum total dose	Latest time of application
Potato (outdoor)	From BBCH 31	0.5 L/ha	1 per year	0.5 L/ha	7 days before harvest
Cauliflower, broccoli, Brussels sprout, head cabbage, kale, Kohlrabi	From BBCH 12	0.625 L/ha	1 per year (see other specific restriction No. 5)	0.625 L/ha	GS 49 and 3 days before harvest

RESTRICTIONS

Shake well before use

Sivanto Prime may be applied during flowering provided it is not mixed with a fungicide from the DMI fungicides group (FRAC group 3). Sivanto® Prime mixed with a DMI fungicide may not be used on flowering plants, in the vicinity of flowering plants, or on non-flowering plants when they are being actively visited by bees and bumblebees.

Safety to beneficial organisms used in IPM systems has not been established and cannot be assumed.

For use only as an agricultural/horticultural insecticide.

Crops	Application timing	Maximum single dose	Maximum number of applications	Maximum total dose	Latest time of application
Peas (with pods)	From BBCH 30	0.375 L/ha	1 per year	0.375 L/ha	7 days before harvest
Peas (without pods)	From BBCH 30	0.375 L/ha	1 per year.	0.375 L/ha	3 days before harvest
Lupin, broad beans, lentil, chickpeas.	From BBCH 51	0.375 L/ha	1 per year	0.375 L/ha	7 days before harvest
Hops (field)	From BBCH 31	0.75 L/ha	1 every 2 years	0.75 L/ha	21 Days before harvest
Apple	From BBCH 10	0.4 L/ha	1 per year	0.4 L/ha	BBCH 59
	OR				
	From BBCH 10	0.6 L/ha	1 every 2 years	0.6 L/ha	BBCH 59
	OR				
	From BBCH 65	0.9 L/ha	1 every 2 years	0.9 L/ha	14 days before harvest

Crops	Application timing	Maximum single dose	Maximum number of applications	Maximum total dose	Latest time of application
Pear (see other Specific restriction No. 4)	From BBCH 10	0.9 L/ha	1 every 2 years	0.9 L/ha	14 days before harvest
Plums (field)	From BBCH 65	0.9 L/ha	1 every 2 years	0.9 L/ha	31st July and 7 days before harvest
Grapes	From BBCH 57	0.5 L/ha	1 per year	0.5 L/ha	14 days before harvest
Lettuce (field)	From BBCH 12	0.625 L/ha	1 per year (see other specific restriction No. 5)	0.625 L/ha	3 days before harvest
Carrot	From BBCH 19	0.375 L/ha	1 per crop	0.375 L/ha	31st August and 21 days before harvest
Strawberry (protected) (non-soil bound)	From BBCH 15	0.625 L/ha	2 per year	1.25 L/ha	3 days before harvest

Crops	Application timing	Maximum single dose	Maximum number of applications	Maximum total dose	Latest time of application
Strawberry (protected) (soil bound)	From BBCH 41	0.625 L/ha	1 per year	0.625 L/ha	3 days before harvest
Tomato (protected)*, Pepper (protected)* Aubergine (protected)* Cucumber (protected)*	From BBCH 12	0.56 L/ha	2 per year	1.12 L/ha	3 days before harvest
Sugar beet, fodder beet	From BBCH 12	0.25 L/ha	1 per crop	0.25 L/ha	BBCH 19

Other Specific Restrictions:

1) To protect aquatic organisms, do not apply this product to land parcels where an intersecting watercourse** is present.

When applying to land parcels where other types of watercourses are present, respect an unsprayed buffer zone of 5 m to these watercourses

** An 'intersecting watercourse' means where a land parcel is sloped towards a watercourse and any surface water run-off would drain into that watercourse

2) Product must only be applied by horizontal boom sprayer fitted when fitted with 75% drift reducing nozzles

3) Product must only be applied by orchard/blast sprayer fitted when fitted with 90% drift reducing nozzles

4) Application to pears is not permitted using knapsack or hand-held equipment

5) When applying to field lettuce or brassicas from GS 12 to 39, only 1 application permitted every 2 years on the same area.

*All non-soil bound cultivation

PESTS CONTROLLED

Sivanto Prime is a contact, residual and systemic insecticide containing flupyradifurone which belongs to the butenolide group of chemistry. Flupyradifurone acts on the insect central nervous system by

attaching to and blocking the acetylcholine binding site causing excitation of the nervous system to control the sucking pests listed below including larval and adult stages:

Potato (outdoor)	<i>Myzus persicae</i> (peach-potato aphid) <i>Macrosiphum euphorbiae</i> (potato aphid) Colorado beetle
Cauliflower, broccoli, Brussels sprout, head cabbage, kale, Kohlrabi	<i>Brevicoryne brassicae</i> (mealy cabbage aphid) <i>Myzus persicae</i> (peach-potato aphid)
Peas (with pods)	<i>Acyrtosiphon pisum</i> (pea aphid)
Peas (without pods)	<i>Acyrtosiphon pisum</i> (pea aphid)
Lupin, broad beans, lentil, chickpeas.	<i>Acyrtosiphon pisum</i> (pea aphid)
Hops (field)	Hop aphid (<i>Phorodon humuli</i>)
Apple	Rosy apple aphid (<i>Dysaphis plantaginea</i>). Rosy Apple-grass aphid (<i>Rhopalosiphum insertum</i>). Rosy Rosy leaf-curling apple aphid (<i>Dysaphis devecta</i>). Rosy Apple/anthriscus aphid (<i>Dysaphis anthrisci</i>). Rosy Apple leaf sucker (<i>Psylla mali</i>). Rosy Green apple aphid (<i>Aphis pomi</i>). Rosy Green citrus aphid (<i>Aphis spiraecola</i>). Rosy Apple sawfly (<i>Hoplocampa testudinea</i>). Woolly apple aphid (<i>Eriosoma lanigerum</i>)

Pear	<p>Pear-bedstraw aphid (<i>Dysaphis pyri</i>).</p> <p>Pear colt's foot aphid (<i>Anuraphis farfarae</i>).</p> <p>Pear-grass aphid (<i>Melanaphis pyrararia</i>).</p> <p>Pear psylla (<i>Psylla pyri</i>).</p> <p>Pear sucker (<i>Psylla pyricola</i>).</p>
Plum	<p><i>Hyalopterus pruni</i> (mealy plum aphid)</p> <p><i>Brachycaudus helichrysis</i> (leaf-curling plum aphid)</p>
Grapes	<p>Grape leafhopper (<i>Empoasca vitis</i>)</p> <p>Green leaf hopper (<i>Empoasca viridula</i>)</p>
Lettuce	<p>Potato aphid (<i>Macrosiphum euphorbiae</i>).</p> <p>Currant-lettuce aphid (<i>Nasanovia ribisnigri</i>).</p> <p>Green peach aphid (<i>Myzus persicae</i>).</p> <p>Foxglove aphid (<i>Aulacorthum solani</i>).</p> <p>Large sow thistle aphid (<i>Uroleucon sonchi</i>).</p> <p>Lettuce aphid (<i>Acyrtosiphon lactucae</i>).</p>
Carrot	<p>Poplar-carrot aphid (<i>Pemphigus phenax</i>)</p> <p>Carrot aphid (<i>Cavariella aegopodii</i>)</p>
Strawberry (protected) (non-soil bound)	<p>Greenhouse whitefly (<i>Trialeurodes vaporariorum</i>).</p> <p>Tobacco whitefly (<i>Bemisia tabaci</i>).</p> <p>Potato aphid (<i>Macrosiphum euphorbiae</i>).</p> <p>Strawberry aphid (<i>Chaetosiphon fragaefolii</i>).</p> <p>Rose aphid (<i>Macrosiphum rosae</i>).</p> <p>Strawberry root aphid (<i>Aphis forbesi</i>).</p>

Strawberry (protected) (soil bound)	Potato aphid (<i>Macrosiphum euphorbiae</i>). Strawberry aphid (<i>Chaetosiphon fragaefolii</i>). Rose aphid (<i>Macrosiphum rosae</i>). Strawberry root aphid (<i>Aphis forbesi</i>). Greenhouse whitefly (<i>Trialeurodes vaporariorum</i>). Tobacco whitefly (<i>Bemisia tabaci</i>).
Tomato (protected)*, Pepper (protected)* Aubergine (protected)*, Cucumber (protected)*	Cotton aphid (<i>Aphis gossypii</i>).
Sugar beet Fodder beet	Aphid group

CROP SPECIFIC INFORMATION

Methods of application:

Field Crops: Tractor mounted / trailed horizontal boom sprayer, orchard/blast sprayer, handheld/knapsack sprayer.

Protected Crops: Gantry/automated sprayer, handheld/knapsack sprayer.

Potato

Apply Sivanto Prime as a foliar application at a rate of 0.5 L/ha as aphids start to build up in the crop.

Applications should be made from BBCH 31, one application is permitted per 12 months.
Recommended water volume: 150–400 L/ha.

Latest time of application: 7 days before harvest

Cauliflower, broccoli Brussels sprouts, head cabbage, kale and kolrabi

Apply Sivanto Prime as a foliar application at a rate of 0.625 L/ha as aphids start to build up in the crop.

Applications should be made from BBCH 12, one application is permitted per 12 months, recommended water volume 500–600.

Latest time of application: BBCH 49 and 3 days before harvest

When applying to from BBCH 12 to 39, only 1 application permitted every 2 years on the same area.

Peas (with pods)

Apply Sivanto Prime as a foliar application at a rate of 0.375 L/ha as aphids start to build up in the crop.

Applications should be made from BBCH 30, one application is permitted per 12 months, recommended water volume 200–400 L/ha.

Latest time of application: 7 days before harvest

Peas (without pods)

Apply Sivanto Prime as a foliar application at a rate of 0.375 L/ha as aphids start to build up in the crop.

Applications should be made from BBCH 30, one application is permitted per 12 months, recommended water volume 200–400 L/ha.

Latest time of application: 3 days before harvest

Lupins, broad bean, lentils, chickpeas.

Apply Sivanto Prime as a foliar application at a rate of 0.375 L/ha as aphids start to build up in the crop.

Applications should be made from BBCH 51, one application is permitted per 12 months, recommended water volume 200–400 L/ha.

Latest time of application: 14 days before harvest

Hop.

Biannual Application:

For the control of Aphids apply Sivanto Prime as a foliar application at a rate of 0.75 L/ha as aphids start to build up in the crop.

Applications should be made from BBCH 31, one application is permitted per 24 months. Recommended water volume: 2000–3300 L/ha.

Latest time of application: 21 days before harvest

Apple.

Annual Application.

For the control of Aphids – Apply Sivanto Prime as a foliar application as pests starts to build up in the crop.

Applications should be from BBCH 10 at an application rate of 0.4 L/ha. One application is permitted per 12 months. Recommended water volume 1000–1500 L/ha.

Latest time of application: BBCH 59

OR

Biannual Application:

For the control of Aphids & Apple leaf sucker* –

Apply Sivanto Prime as a foliar application as pests starts to build up in the crop.

Applications should be made from BBCH 10 at an application rate of 0.6 L/ha. One application is permitted per 24 months regardless of pest species targeted or application timing. Recommended water volume 1000–1500 L/ha.

Latest time of application: BBCH 59

OR

For the control of Aphids, Apple leaf sucker and Apple sawfly * – Apply Sivanto Prime as a foliar application as pests starts to build up in the crop.

Applications should be made from BBCH 65 at an application rate of 0.9 L/ha. One application is permitted per 24 months regardless of pest species targeted or application timing. Recommended water volume 1000–1500 L/ha.

Latest time of application: 14 days before harvest

All rates are specified for trees with a canopy height of 3 m or higher. Where tree height and/or canopy density is reduced, the dose (and water volume) should be adjusted in accordance with an appropriate dose adjustment scheme, for example PACE. Consult your specialist advisor for further information. Further information on the PACE scheme is available from the *AHDB Apple Best Practice Guide*, or PACE website.

Definition of tree canopy: tree canopy height is the average of the tree height in the orchard (soil to top of the crown) minus the average trunk height in the orchard (soil to first main branch).

Pear

Biannual Application:

For the control of Aphids & Pear psylla* – Apply Sivanto Prime as a foliar application as pests start to build up in the crop.

Applications should be made from BBCH 10 at an application rate of 0.9 L/ha. One application is permitted per 24 months regardless of pest species targeted or application timing. Recommended water volume: 1000–1500 L/ha.

Latest time of application: 14 days before harvest

All rates are specified for trees with a canopy height of 3 m or higher. Where tree height and/or canopy density is reduced, the dose (and water volume) should be adjusted in accordance with an appropriate dose adjustment scheme, for example PACE. Consult your specialist advisor for further information. Further information on the PACE scheme is available from the *AHDB Apple Best Practice Guide*, or PACE website.

Definition of tree canopy: tree canopy height is the average of the tree height in the orchard (soil to top of the crown) minus the average trunk height in the orchard (soil to first main branch).

Plum (field)

Biannual Application:

Apply Sivanto Prime as a foliar application as pests start to build up in the crop.

For the control of *Hyalopterus pruni*, *Brachycaudus helichrys* application should be made from BBCH 69 at a rate of 0.9 L/ha. One application is permitted per 24 months, recommended water volume 750–1500 L/ha.

Latest time of application: 7 days before harvest and 31st July.

Grape (outdoor)

Annual Application:

For the control of cicadas*. Apply Sivanto Prime as a foliar application as pests start to build up in the crop.

Application should be made from BBCH 57 at an application rate of 0.5 L/ha. One application is permitted per 12 months regardless of pest species targeted or application timing. Recommended water volume 400–1200 L/ha.

Latest time of application: 14 days before harvest

Lettuce *Lactuca* spp (outdoor)

For the control of Aphids – Apply Sivanto Prime as a foliar application as pests starts to build up in the crop.

Applications should be made from BBCH 12 at an application rate of 0.625 L/ha. One application is permitted per 12 months. Recommended water volume 200–800 L/ha.

Latest time of application: 3 days before harvest

When applying to from BBCH 12 to 39, only 1 application permitted every 2 years on the same area.

Carrot (outdoor)

Apply Sivanto Prime as a foliar application as pests start to build up in the crop.

For the control of *Pemphigus phenax* application should be made from BBCH 19 at a rate of 0.375 L/ha. One application is permitted per 12 months, recommended water volume 150–800 L/ha.

OR

For the control of *Cavariella aegopodii* application should be made from BBCH 19 at a rate of 0.25 L/ha. One application is permitted per 12 months, recommended water volume 150–800 L/ha.

Only one application is permitted regardless of the pest controlled.

Latest time of application: 31st August and 21 days before harvest

Sugar beet and Fodder beet

Apply Sivanto Prime as a foliar application as pests start to build up in the crop.

For the control of aphids, application should be made from BBCH 12 at a rate of 0.125 L/ha. One application is permitted per 12 months,

recommended water volume: 150–300 L/ha.

Latest time of application: BBCH 19.

Strawberry – Protected, non-soil-bound cultivation.

For the control of whitefly*. Apply Sivanto Prime as a foliar application as pests start to build up in the crop.

Applications should be made from BBCH 15 at an application rate of 0.625 L/ha. Two applications are permitted per 12 months regardless of pest species targeted or application timing. The minimum interval between applications is 10 days. Recommended water volume 600–1000 L/ha.

For the control of Aphids. Apply Sivanto Prime as a foliar application as pests start to build up in the crop.

Applications should be made from BBCH 15–89 at an application rate of 0.5 L/ha. Two applications are permitted per 12 months regardless of pest species targeted or application timing. The minimum interval between application is 10 days. Recommended water volume 600–1000 L/ha.

Latest time of application: 3 days before harvest

Strawberry – Protected, soil-bound cultivation.

For the control of whitefly*. Apply Sivanto Prime as a foliar application as pests start to build up in the crop.

Application should be made from BBCH 41 at an application rate of 0.625 L/ha. One application is permitted per 12 months regardless of pest species targeted or application timing. Recommended water volume 600–1000 L/ha.

For the control of Aphids. Apply Sivanto Prime as a foliar application as pests start to build up in the crop.

Application should be made from BBCH 41 at an application rate of 0.5 L/ha. One application is permitted per 12 months regardless of pest species targeted or application timing. Recommended water volume 600–1000 L/ha.

Latest time of application: 3 days before harvest

Tomato, pepper, aubergine, cucumber, – (Protected, non-soil bound cultivation)

For the control of Aphids. Apply Sivanto Prime as a foliar application at a rate of 37 ml product per 100 L water as aphids start to build up in the crop.

Adjust water volume to suit crop height and density. It is important to ensure full coverage of the crop and pest for optimum pest control.

A water volume of up to a maximum of 1500 L/ha may be applied, this is equivalent to a maximum individual dose of 0.56 L product/ha.

If a second application of Sivanto Prime is required, a minimum of 10 days must be allowed between applications.

PESTICIDE RESISTANCE MANAGEMENT STRATEGY

This product contains flupyradifurone, classified by the Insecticide Resistance Action Committee as 'Group 4D'. Total reliance on one pesticide will hasten the development of resistance. A strategy for preventing and managing such resistance should be adopted. Insecticides of different chemical types or alternative control measures should be included in any planned programme. Alternating insecticides with different modes of action is a recognised anti-resistance strategy and Sivanto Prime should always be used in alternation with other insecticides of a different mode of action. The insecticide resistance

management strategy should include integrating insecticides with a programme of cultural control measures. Guidelines have been produced by the Insecticide Resistance Action Group and copies are available from the AHDB, CPA, your distributor, crop adviser or product manufacturer.

Key aspects of the SIVANTO PRIME resistance management strategy are:

- ALWAYS follow IRAG-UK guidelines for preventing and managing insecticide resistance.
- ALWAYS alternate SIVANTO PRIME with different modes of action if an insecticide program is required.
- AVOID using SIVANTO PRIME continually in successive crops. Use other effective insecticides with different modes of action throughout the cropping rotation.
- AVOID using less than the labelled rate of SIVANTO PRIME when applied as a single treatment or in a tank-mix.
- ALWAYS apply SIVANTO PRIME in sufficient water volume to achieve the required spray penetration into the crop and uniform coverage.

- ALWAYS use SIVANTO PRIME in conjunction with a holistic pest control strategy including non-insecticide control methods, e.g. cultural or biological components.
- ALWAYS monitor pest control effectiveness and investigate where control may be low. If unexplained, contact your agronomist who may consider a resistance test appropriate.

MIXING AND SPRAYING

Shake well before use. Add the required quantity of Sivanto Prime to the half-filled spray tank with the agitation system in operation and fill to the required level. Continue agitation at all times during spraying and stoppages until the tank is completely empty. Spray immediately after mixing. Wash equipment thoroughly, immediately after use, by using an integrated pressure rising device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.

Apply as a MEDIUM quality spray (BCPC).

Processing Information:

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

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