CONSERVE®

GROUP	5	INSECTICIDE

The active substance spinosad is marketed as Qalcova Active™

A suspension concentrate containing 120g/litre (11.6% w/w) spinosad.

A selective insecticide for use in protected ornamental plant production and protected crops of cucumber, tomato, pepper, aubergine and chilli (UK only) for the control of western flower thrip.

Product registration number: MAPP 12058, PCS 03728.

- The ideal partner for managing western flower thrips, in protected ornamental plant production, cucumber, tomato, pepper, chilli (UK only) and aubergine, with a high level of activity against all stages, especially larvae and adults.
- Conserve has a unique mode of action.
- Contains spinosad, an active ingredient for insect pest control derived from the biological fermentation of naturally occurring soil bacteria, *Saccharopolyspora spinosa*.
- Use as part of an Integrated Pest Management programme.

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work (UK only).

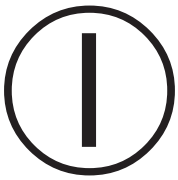
Use plant protection products safely. Always read the label and product information before use.

VERSION CONTROL

Version	Publication Date	Main changes from previous version
12/15	Dec-2015	
01/18	November 2018	Reduction in number of applications on ornamental plant production.
12/22	December 2022	Change to Corteva labelled product. Changes throughout particularly on the safety precautions section.

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CONSERVE®



The following text is taken from the approved Product Label:

GROUP	5	INSECTICIDE

The active substance spinosad is marketed as Qalcova Active™

A suspension concentrate containing 120g/litre (11.6% w/w) spinosad.

A selective insecticide for use in protected ornamental plant production and protected crops of cucumber, tomato, pepper, aubergine and chilli (UK only) for the control of western flower thrip.

Product registration number: MAPP 12058, PCS 03728.

DIRECTIONS FOR USE

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.

MODE OF ACTION

CONSERVE enters the insect primarily through contact and ingestion. Contact occurs by direct application or by insect movement on a treated surface. Ingestion occurs from feeding on treated surfaces. Following entry, CONSERVE acts on the nicotinic and GABA receptor sites of the insect.

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PROTECTED ORNAMENTAL PLANT PRODUCTION

Pest	Control of western flower thrip
Rate	75mL per 100 litres of water
Water volume	500-1000 litres of water
Maximum number of applications	3 per crop (2 consecutive)
Time of application	Apply when the nymphs or adults are first seen. Monitor carefully pest development to determine whether repeat applications are necessary. A two spray programme at 5 to 7 day intervals should be applied when conditions favour rapid pest development. Apply a maximum of 2 consecutive sprays followed by a minimum 10 week interval before any further applications of CONSERVE. In protected situations, the total number of applications of any spinosad containing product must not exceed 6 per glasshouse/protected structure in a 12 month period, regardless of the crop being treated (including ornamentals).
Latest time of application	No latest time of application.
Crop safety	CONSERVE has been tested on a wide range of ornamentals grown as pot plants and cut flowers. CONSERVE has good plant safety when applied at different growth stages, including flowering. In view of the large number of species and cultivators grown, it is recommended to test CONSERVE on a small number of plants to confirm plant safety before spraying the crop. Some spotting of *Saintpaulia* (African violet) flowers may occur.
Notes	Some plants, eg Fuchsia flowers, can provide effective refuges from spray deposits of CONSERVE and control may be reduced. Consult processors before use.

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PROTECTED CUCUMBER, TOMATO, PEPPER, CHILLI (UK ONLY) AND AUBERGINE

Pest	Control of western flower thrip
Rate	80mL per 100 litres of water (maximum of 800mL/ha)
Water volume	600-1000 litres of water
Maximum number of applications	3 per crop (2 consecutive)
Time of applications	Apply when the nymphs or adults are first seen. Monitor carefully pest development to determine whether repeat applications are necessary. A 2 spray programme at 7 day intervals should be applied when conditions favour rapid pest development. Apply a maximum of 2 consecutive sprays followed by a minimum 28 day interval before any further applications of CONSERVE. In protected situations the total number of applications of any spinosad containing product must not exceed 6 per glasshouse/protected structure in a 12 month period, regardless of the crop being treated (including ornamentals). If the final insecticide chemical application to a crop was spinosad, choose a different insecticide active ingredient to begin spraying on the next crop. Do not apply later than 3 days before harvest.
Latest time of application	3 days before harvest.
Crop safety	It is recommended to test CONSERVE on a small number of plants to confirm the crop safety before spraying a large area.
Notes	Consult processors before use.

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RESISTANCE

GENERAL

To reduce the possibility of the development of resistance:

- Total reliance on one pesticide will hasten the development of resistance: Spinosad has a different mode of action from other insecticides and is most effective when applied in planned programmes with other insecticides with different modes of action.
- Avoid use of the same active ingredient or mode of action on consecutive generations of insects. However, multiple applications to reduce a single generation are acceptable. If uncertain of the generation cycle, no more than two consecutive applications should be used, or should there be continuous use for more than 30 days.
- Do not use CONSERVE on consecutive generations for insects which show a high risk of resistance such as western flower thrip.
- Do not use reduced label rates when applied alone or in tank mixtures.

PROTECTED CROPS

- Western flower thrips have shown resistance to certain chemical groups including spinosad. Where resistance is confirmed, CONSERVE is unlikely to give satisfactory control. Resistance management steps should be taken as it is considered a high resistance risk pest in protected crops/plants, including appropriate monitoring.
- Before undertaking a spray programme with CONSERVE, establish whether incoming plant material has previously been treated with CONSERVE or another spinosad containing product.
- Carry out careful monitoring and apply when the western flower thrip is first seen making repeat applications at 5-7 day intervals for protected ornamentals with a maximum of 2 consecutive sprays, and 7 day intervals for protected cucumbers, tomato, pepper and aubergine only if needed, with a maximum of 2 consecutive sprays.
- For protected ornamental plants, apply a maximum of 2 consecutive sprays followed by a minimum 10 weeks interval before any further applications of CONSERVE.
- For protected cucumber, tomato, pepper, chilli (UK only) and aubergine, apply a maximum of 2 consecutive sprays followed by a minimum 28 day interval before any further applications of CONSERVE.
- In protected situations the total number of applications of ***any*** spinosad containing product must not exceed 6 per glasshouse/protected structure in a 12 month period regardless of the crop being treated.
- The maximum of 6 applications per structure in a 12 month period applies even if only part of the structure is treated at each application, such as with all year round (AYR) chrysanthemums.

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- Apply in programmes with other insecticides with a different mode of action and use no further sprays of CONSERVE (or any other spinosad containing products) once the maximum number of sprays have been applied.
- If the final insecticide application to a crop was spinosad, choose a different insecticide active ingredient to begin spraying on the next crop.
- Applications should be targeted against early insect developmental stages whenever possible.
- Do not use reduced label rates.
- Whenever possible use an Integrated Pest Management programme.
- Choose resistant cultivars.

INTEGRATED PEST MANAGEMENT

Whenever possible use an Integrated Pest Management programme. For further information and the latest advice on beneficial insects and mites and their integrated use with CONSERVE consult your supplier.

BEES

Do not apply in the heat of the day when bees may be foraging as contact with direct spray may be harmful. Remove the hive during spraying as exposure to direct spray may be harmful to bees. Corteva Agriscience take the most restrictive approach and recommend that a period of 24 hours after application and all spray deposits are thoroughly dry before exposure of bees. Water pools with residues of spinosad will continue to pose a risk and should be avoided.

PROTECTED CROPS

As part of an Integrated Pest Management programme:

- Inspect all incoming plant material for presence of western flower thrip and treat if necessary.
- Monitor ornamental stock routinely to determine need for control measures.
- Use screens or barriers to prevent insects migrating.
- Use predators and parasites.
- Carefully choose any chemical products used in the pesticide programme and consider any side effects on bees and beneficial arthropods.

CONSERVE has been tested on a wide range of predators and parasites used to control pests in protected ornamentals. The active ingredient, spinosad has been shown to be of low impact to many insect and mite predators but harmful to adults of most parasitic wasps (*Hymenoptera*).

Exposure to direct spray is harmful to bumble bees, but dry spray deposits are harmless.

When applied to plants where insect and mite predators are present CONSERVE may cause a temporary reduction in abundance.

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For susceptible predators (parasitic hymenoptera) re-introduction is possible after 7 days following application (with perhaps 14 days in winter months). For most other predators introduction is possible 24 hours after application. Re-introduction of *Orius laevigatus* is advised one week later.

CONSERVE, when used according to good agricultural practice is unlikely to pose an unacceptable risk to honeybees and beneficial arthropods.

Beneficials may be safely introduced to treated plants after an application of CONSERVE according to the following table:

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CONSERVE recommendations for integrated use with predators and parasites			
Beneficial type	**Species**	***IOBC Toxicity Class rating**	**Introduction best practices**
Predatory mites	*Phytoseiulus persimilis*	Harmless (1)	Data suggests predatory mites introduced when spray deposits are dry may be affected but will recover after 24 hours.
	Amblyseius californicus	Harmless (1)	
	Amblyseius cucumeris	Harmless (1)	
Predatory insects	*Chrysoperla carnea*	Harmless (1)	Data suggests predatory insects introduced when spray deposits are dry may be affected but will recover after 24 hours. *Orius laevigatus* is best introduced after 7 days. *M. caliginosus* may be introduced on the day of application once spray deposits are dry. If CONSERVE is applied directly to plants containing *M. caliginosus*, there may be a short-term reduction in numbers.
	Orius laevigatus	Slightly harmful (2)	
	Aphidoletes aphidimyza	Harmless (1)	
	Macrolophus caliginosus	Harmless (1)	
Parasitic wasps	*Aphidius colemani*	Harmful (4)	Direct applications of CONSERVE are harmful to parasitic wasps. Wait at least 7 days after an application of CONSERVE before introducing new parasites.
	Encarsia formosa	Moderately harmful (3)	
	Trichogramma brassicae	Moderately harmful (3)	
	Diglyphus isaea	Harmful (4)	

***Toxicity rating:**

Class 1 = Harmless: less than 25% reduction. Class 2 = Slightly harmful: 25-50% reduction.
Class 3 = Moderately harmful: 50-75% reduction. Class 4 = Harmful: more than 75% reduction.
For further information and the latest advice on beneficial insects and mites and their integrated use with CONSERVE, consult your supplier.

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MIXING

To ensure thorough mixing of the product invert the container several times before opening. Half fill the spray tank with water, begin agitation and add the required quantity of CONSERVE. Fill up the spray tank, agitating continuously to ensure thorough mixing, and maintain agitation until spraying is complete. Use only clean water for mixing. Use the spray solution immediately after preparation.
For knapsack sprayers, half-fill the spray tank with water and add the required quantity of CONSERVE. Fill up the spray tank agitating continuously to ensure thorough mixing. Use the spray solution immediately after preparation.

SPRAY VOLUME

Apply in a high volume spray to ensure thorough coverage of leaves, stems, buds and fruits to the point of run-off.
Water volume should reflect the need for uniform cover and penetration of the leaf canopy.

Crop	Water Volume	Comment
Protected ornamental plant production	Minimum: 500 litres/ha Maximum: 1000 litres/ha	Apply in a high volume spray to ensure thorough coverage of leaves, stems, buds and flowers to the point of run off.
Protected cucumber, tomato, pepper, aubergine	Minimum: 600 litres/ha Maximum: 1000 litres/ha	Apply in a high volume spray to ensure thorough coverage of leaves, stems, buds, flowers and fruits to the point of run off.

APPLICATION EQUIPMENT

Apply CONSERVE using either a hydraulic nozzle motorised sprayer or knapsack sprayer. Ensure the equipment is in good working order and has been calibrated according to manufacturer's recommendations.

NOTES

Wash spray tank and equipment (including knapsack sprayers) thoroughly with water and a liquid detergent immediately after use. Spray out. Fill with clean water and leave overnight. Spray out again before using another product.

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SAFETY PRECAUTIONS

Operator protection:

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:
However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection (UK only).
DO NOT BREATHE SPRAY.
WHEN USING DO NOT EAT, DRINK OR SMOKE.
WASH CONCENTRATE from skin and eyes immediately.
WASH HANDS AND EXPOSED SKIN before eating and drinking, and after work.

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 yards and roads.)
Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area.
UK only: To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements.
DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5 m of the lop of the bank of a static or flowing water body, unless a Local Environment Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1 m of the top of a ditch which is dry at the time of application. DO NOT ALLOW DIRECT SPRAY from hand-held sprayers to fall within 1 m of the top of the bank of a static or flowing water body. Aim spray away from water.
This product qualifies for inclusion within the Local Environment Risk Assessment for Pesticides (LERAP) scheme. Before each spraying operation from a horizontal boom sprayer, either a LERAP must be carried out in accordance with CRD's published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three year.
IE only: To protect aquatic organisms respect an unsprayed buffer zone of 5m to surface water bodies.

Storage and disposal:

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.
KEEP IN ORIGINAL CONTAINER, tightly closed in a safe place.
RINSE CONTAINER THOROUGHLY by using and integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.
DO NOT RE-USE CONTAINER for any purpose.
This material and its container must be disposed of in a safe way.

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WARNING

Very toxic to aquatic life with long-lasting effects.

IF SWALLOWED: Immediately call a POISON center or doctor / physician.

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

Contains 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

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

MAPP 12058 / PCS No. 03728

IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL INSECTICIDE

Crop/situation:	**Maximum individual dose**	**Maximum number of treatments**	**Latest time of application**
Ornamental plant production (protected)	75mL/100 litres of water (apply to run-off)	3 per crop (See "Other specific restrictions")	-
Cucumber (protected), tomato (protected), pepper (protected), chilli (protected) UK only, aubergine (protected)	80mL/100 litres of water (apply to run-off up to a maximum of 1000L water/ha)	3 per crop (See "Other specific restrictions")	3 days before harvest

Other specific restrictions:

For protected ornamental plants, apply a maximum of 2 consecutive sprays followed by a minimum 10 week interval before any further applications of CONSERVE.

In protected situations, the total number of applications of any spinosad containing product must not exceed 6 per glasshouse/protected structure in a 12 month period, regardless of the crop being treated (including ornamentals).

For protected cucumber, tomato, pepper, chilli (UK only) and aubergine, apply a maximum of 2 consecutive sprays followed by a minimum 28 day interval before any further applications of CONSERVE.

Consult processors before use.

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.

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PROFESSIONAL USE ONLY

SHAKE WELL BEFORE USE

PROTECT FROM FROST

Triple rinse containers, puncture and invert to dry at time of use.

CORTEVA AGRISCIENCE CONDITIONS OF SUPPLY

All goods supplied by us are of high grade and we believe them to be suitable but, as we cannot exercise control over their storage, handling, mixing or use, or the weather conditions before, during and after application which may affect the performance of the goods, all conditions and warranties, statutory or otherwise, as to the quality or fitness for any purpose of our goods are excluded. No responsibility will be accepted by us or re-sellers for any failure in performance, damage of injury whatsoever arising from their storage, handling, application or use. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in the use of such goods.

The active substance Spinosad is marketed as Qalcova Active™
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AUTHORISATION HOLDER

Corteva AgroSciences UK Limited,
CPC2 Capital Park,
Fulbourn,
Cambridge CB21 5XE United Kingdom.
Tel: +44 (0) 1462 457272

24-hour emergency telephone number for CONSERVE: + 44 (0)161 884 1235 (UK)
+353 (0) 76 680 5288 (IE)

National Poisons Centre (Dublin) 01809 2166
National Poisons Centre (UK) 111

Pack size: 1 litre
Outer size: 10 x 1 litre
Safety data sheet available on request.
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