



Couraze® 200 SC
INSECTICIDE

CAUTION

**KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING**

SC

FORMULATION TYPE
**Suspension
Concentrate**

ACTIVE CONSTITUENT:
200 g/L IMIDACLOPRID

CONTENTS:
1 L – 10 L

GROUP 4A INSECTICIDE



For the control of aphids, mirids and brown flea beetle on cotton; green peach aphid, wooly aphid, grey cabbage aphid and turnip aphid on crops as specified in the Directions for Use table.

FIRST AID

If poisoning occurs, contact Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766).

SAFETY DIRECTIONS

Harmful if swallowed. May irritate the eyes and skin. Repeated occupational exposure during use may cause allergic disorders. Avoid contact with eyes and skin. When using the product, wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow-length PVC gloves. Wash hands after use. After each day's use, wash gloves and contaminated clothing.

SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet that can be obtained from www.fmccrop.com.au

GENERAL INSTRUCTIONS

INSECTICIDE RESISTANCE WARNING

GROUP 4A INSECTICIDE

For insecticide resistance management, Couraze® 200 SC Insecticide is a Group 4A insecticide. Some naturally occurring insect biotypes resistant to Couraze® 200 SC Insecticide and other Group 4A insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if Couraze® 200 SC Insecticide and other Group 4A insecticides are used repeatedly. The effectiveness of Couraze® 200 SC Insecticide on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, FMC accepts no liability for any losses that may result from the failure of Couraze® 200 SC Insecticide to control resistant insects. Couraze® 200 SC Insecticide may be subject to specific resistance management strategies. For further information contact your local supplier, FMC representative or local agricultural department agronomist.

Insecticide Resistance Management Strategy for Cotton Aphid in Cotton

Contact your local supplier, FMC representative or local

agricultural department agronomist.

Insecticide Resistance Management Strategy for Green Peach Aphid in Various Crops

Contact your local supplier, FMC representative or local agricultural department agronomist. Also available at website www.croplife.org.au

Insecticide Resistance Management Strategy for other Aphids, Whitefly and Melon Thrips

DO NOT apply Couraze® 200 SC Insecticide in consecutive sprays. Rotate with registered insecticides from other groups.

Confined environments such as glasshouses

Annuals: **DO NOT** apply more than one spray of Couraze® 200 SC Insecticide to any one crop.
Perennials: Rotate with registered insecticides from other groups. Use a maximum of three sprays in any 12 month period.

MIXING / APPLICATION

Prior to pouring, shake container vigorously, then add the required quantity of Couraze® 200 SC Insecticide to water in the spray vat. Couraze® 200 SC Insecticide while stirring or with agitators in motion.

DILUTE SPRAYING (STONE FRUIT)

Use a sprayer designed to apply high volumes of water

up to the point of run-off and matched to the crop being sprayed. Set up and operate the sprayer to achieve even coverage throughout the crop canopy. Apply sufficient water to cover the crop to the point of run-off. Avoid excessive run-off. The required water volume may be determined by applying different test volumes, using different settings on the sprayer, from industry guidelines or expert advice. Add the amount of product specified in the Directions for Use table for each 100 L of water. Spray to the point of run-off.

The required dilute spray volume will change and the sprayer set up and operation may only need to be changed, as the crop grows.

CONCENTRATE SPRAYING (STONE FRUIT)

Use a sprayer designed and set up for concentrate spraying (that is a sprayer which applies water volumes less than those required to reach the point of run-off) and matched to the crop being sprayed. Set up and operate the sprayer to achieve even coverage throughout the crop canopy using your chosen water volume. Determine an appropriate dilute spray volume (See Dilute Spraying above) for the crop canopy. This is needed to calculate the concentrate mixing rate. The mixing rate for concentrate spraying can then be calculated in the following way:

EXAMPLE ONLY

1. Dilute spray volume as determined above: For example 1500 L/ha
2. Your chosen concentrate spray volume: For example 500 L/ha
3. The concentration factor in this example is: 3 X (i.e. $1500 \text{ L} \div 500 \text{ L} = 3$)
4. As the dilute label rate is 25 mL/100 L for stone fruit, then the concentrate rate becomes 3 x 25, which is 75 mL/100 L of concentrate spray.

The chosen spray volume, amount of product per 100 L of water, and the sprayer set up and operation may need to be changed as the crop grows.

DO NOT use a concentrate rate higher than that specified in the Critical Comments. For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry Best Practices.

APPLICATION (COTTON)

Thorough coverage of cotton plants is essential to achieve maximum performance from Couraze® 200 SC Insecticide plus Pulse. Equipment should be calibrated to achieve a **minimum of 60 droplets/cm² on the target foliage**. A droplet **Volume Median Diameter (VMD)** for optimum performance from Couraze® 200 SC Insecticide plus Pulse is dependent on equipment and is defined below. **DO NOT** apply when unfavourable environmental conditions may reduce the quality of spray coverage.

GROUND APPLICATION (COTTON)

Application using ground equipment should be made using **hollow cone nozzles with a minimum spray volume of 100 L/ha**. Hollow cone nozzles are recommended but if flat

fan nozzles are used, higher water volumes will be required and nozzles should be configured to ensure thorough coverage. A droplet **VMD of 150 – 180 microns** must be used. When multiple nozzles per row are used, they should be of the same specification to ensure that each nozzle contributes an equal proportion of the required dose. When multiple nozzles per row are used (particularly for banded applications) ensure the correct nozzle overlap pattern is achieved on the target foliage. **Banded applications less than 100% are not recommended beyond the 15 node crop stage.**

AERIAL APPLICATION (COTTON)

Apply in a **minimum spray volume of 25 L/ha**. A droplet **VMD of 120 – 150 microns** must be used. **DO NOT** exaggerate swath width. **DO NOT** apply Couraze® 200 SC Insecticide plus Pulse using Ultra Low Volume (ULV) methods. The use of large droplet placement equipment is not recommended.

COMPATIBILITY

Couraze® 200 SC Insecticide is compatible with Antracol*, Baycor*, and Nitofol*. **DO NOT** mix concentrates together but add each to the spray tank separately. As formulations of other manufacturers' products are beyond the control of FMC, all mixtures should be tested prior to mixing commercial quantities. As changes in climatic conditions can alter the sensitivity of plants to mixtures of sprays, FMC cannot be responsible for the behaviour of such mixtures.

PROTECTION OF LIVESTOCK

Dangerous to bees. DO NOT spray any plants in flower while bees are foraging.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

A spray drift minimisation strategy should be employed at all times when aerially applying sprays. The strategy envisaged is exemplified by the cotton industries Best Management Practice Manual.

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well-ventilated area. **DO NOT** store for prolonged periods in direct sunlight.

Triple-rinse containers before disposal. Add rinsings to the 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 packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 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.

DIRECTIONS FOR USE

Aphids, mirids and brown flea beetle on cotton; green peach aphid, wooly aphid, grey cabbage aphid and turnip aphid on crops.

CROP	PEST	RATE	WHP	CRITICAL COMMENTS
Cotton	Aphids	250 mL/ha + Pulse Penetrant* at 0.2% v/v (2 mL/L water) or equivalent Organo silicone surfactant^ (eg. Freeway Gold) ^ Check with FMC for recommended Organo silicone surfactants.	13 weeks	<p>The addition of Pulse* Penetrant or equivalent is critical for the performance of Couraze® 200 SC Insecticide. Apply early in the establishment of an aphid infestation when numbers are low (ie no more than 1 or 2 leaves per plant with honeydew present). Applications made later than this may result in reduced control.</p> <p>Shorter residual control may be evident and a repeat application of a registered aphicide (follow the Cotton Insecticide Resistance Management Strategy for cotton aphid) may be required to achieve complete control:</p> <ul style="list-style-type: none"> • If applications of Couraze® 200 SC Insecticide plus Pulse* are timed too late (see above); or • If existing high density aphid colonies (hotspots) are present; or • If aphids have established throughout the plant canopy (especially lower in the canopy); or • If there is a high reinfestation pressure; or • If there is rapid crop growth; or • If Couraze® 200 SC Insecticide plus Pulse* or equivalent is used following a spray failure (e.g. resistance to organophosphate or carbamate insecticides). Note: where resistance to carbamates or organophosphates is suspected Couraze® 200 SC Insecticide plus Pulse* or equivalent should be used first so as not to delay control of the aphids present. <p>Aphids treated with Couraze® 200 SC Insecticide plus Pulse* or equivalent may still be present on the plant but will not be feeding. Control of aphids should initially be assessed by a reduction in fresh honeydew and not on the presence of aphids on the plant. After ingesting Couraze® 200 SC Insecticide, aphids may take up to 5 days to die.</p>
	Mirids, Brown flea beetle			Apply insecticide when pest numbers reach treatment threshold levels as determined by field checks.

CROP	PEST	RATE	WHP	CRITICAL COMMENTS
Stone Fruit	Green peach aphid, Black pea aphid	Dilute spraying 25 mL/100 L Concentrate spraying Refer to the Mixing/Application section	21 days	Apply at first sign of aphid infestation. Apply as a full cover spray, ensuring thorough coverage. Apply by dilute or concentrate spraying equipment. Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods. DO NOT use in equipment that requires rates greater than 125 mL/100 L of water.
Apples	Woolly aphid	Chemical control 6 mL/1 L of water/tree	-	For trees up to 7 years of age. During late summer or autumn, apple trees with woolly aphid colonies or damage should be identified and marked for treatment the following season. At green tip to petal fall, apply 1 litre of the Couraze® 200 SC Insecticide mixture to moist soil immediately around the base of the tree trunk. Ensure the mixture infiltrates the soil around the trunk and does not run off the soil. Control weeds before application. DO NOT disturb or remove the soil around the trunk during the season. If aerial colonies are present during the application, maximum effectiveness may not be achieved until the following season. DO NOT treat more than once in any 2 year period.
		Beneficial insect plus chemical control (eg <i>Aphelinus mali</i> plus Couraze® 200 SC Insecticide) 3 mL/1 L of water/tree		
Curcubits	Green peach aphid	25 mL / 100 L or 300 mL /ha	1 day	Apply at first sign of aphid infestation.
Capsicum, Eggplant, Potato			7 days	
Tomato			3 days	
Brassicas	Grey cabbage aphid, Turnip aphid		7 days	Apply at first sign of aphid infestation. Add a wetting agent.
Sweet potato	Silverleaf whitefly, including type B	25 mL / 100 L or 250 mL /ha	7 days	Apply at first sign of whitefly or melon thrips infestation. Apply dilute sprays (25 mL/100 L) to run off. Ensure thorough coverage of underside of leaves. Use of droppers will improve coverage of underside of leaves.
Cucumber			1 day	
Eggplant			Melon thrips	
Duboisia	Green peach aphid	25 mL / 100 L	-	Apply when aphid numbers reach spray threshold levels as determined by regular monitoring. Ensure thorough coverage of all leaves.

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

WITHHOLDING PERIODS

APPLES: NOT REQUIRED WHEN USED AS DIRECTED.

COTTON: **DO NOT** HARVEST FOR 13 WEEKS AFTER APPLICATION.

COTTON: **DO NOT** GRAZE OR CUT FOR STOCK FOOD.

CUCURBITS: **DO NOT** HARVEST FOR 1 DAY AFTER APPLICATION.

TOMATOES: **DO NOT** HARVEST FOR 3 DAYS AFTER APPLICATION.

BRASSICAS, CAPSICUM, EGGPLANT, POTATOES, SWEET POTATOES: **DO NOT** HARVEST FOR 7 DAYS AFTER APPLICATION.

STONE FRUIT: **DO NOT** HARVEST FOR 21 DAYS AFTER APPLICATION.

DO NOT GRAZE FOR ANY TREATED AREA, OR CUT FROM STOCK FOOD.

DO NOT FEED PRODUCE HARVESTED FROM TREATED AREA TO ANIMALS, INCLUDING POULTRY.

EXPORT OF TREATED PRODUCE

Growers should note that MRLs or import tolerances do not exist in all markets for edible produce treated with Couraze® 200 SC Insecticide. If you are growing edible produce for export, please check with FMC for the latest information on MRLs and import tolerances before using Couraze® 200 SC Insecticide.

IN A MEDICAL EMERGENCY CALL 1800 033 111 ALL HOURS

NOTICE TO BUYER

To the extent permitted by the Competition and Consumer Act (2010) or any relevant legislation of any State or Territory (the "Legislation") all conditions and warranties and statutory or other rights of action, whether arising in contract or tort or whether due to the negligence of FMC or Seller, which buyer or any other user may have against FMC or Seller are hereby excluded provided however that any rights of the buyer pursuant to non-excludable conditions or warranties of the Legislation are expressly preserved. FMC hereby gives notice to buyer and other users that to the extent permitted by the Legislation it will not accept responsibility for any indirect or consequential loss of whatsoever nature arising from the storage, handling or use of this product. Where permitted by the Legislation FMC's liability shall in all circumstances be limited to the replacement of the product, or a refund of the purchase price paid therefor.

The product must be used and applied strictly in accordance with the label instructions and other directions for use. It is impossible to eliminate all risks associated with the use of this product. Such risks may arise from factors such as weather conditions, soil factors, off target movement, unconventional technique, presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of FMC or the Seller. Buyer accepts these risks.

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