

POISON

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

Showdown® 375

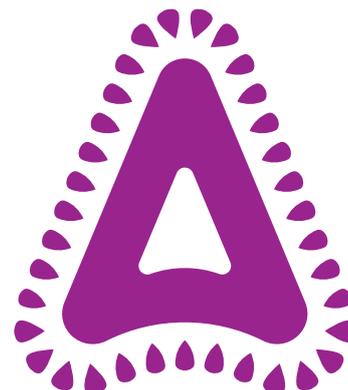
Insecticide

ACTIVE CONSTITUENT: **375 g/L THIODICARB**

(an anti-cholinesterase compound)

GROUP **1A** INSECTICIDE

For the control of *Heliothis* (*Helicoverpa* spp.) in brassica crops, soybeans, dried pulses (grain legumes), tomatoes, tobacco and cotton as specified in the Directions for Use table



ADAMA

Formulation type
Suspension
Concentrate

SC

adama.com

CONTENTS: 20 L, 200 L

DIRECTIONS FOR USE

Restraints: DO NOT add SHOWDOWN® 375 to water with a pH below 3.0 or above 8.5.
DO NOT store prepared spray mixture for longer than 6 hours.

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
Brassica Crops	Cabbage Cluster Caterpillar (<i>Crociodolomia pavonana</i>), Cabbage White Butterfly (<i>Pieris rapae</i>)	All States	1.0 - 2.0 L/ha	7 days (H) 21 days (G)	Spray as required depending upon pest pressure. Closely monitor pest populations. Use the lower rate for small caterpillars and the higher rate for advanced caterpillars. Add a non-ionic wetting agent at the recommended rates.
Cotton	<i>Heliothis</i> (Native Budworm) (<i>Helicoverpa punctigera</i>)	Qld, NSW, WA, NT only	2.0 or 2.5 L/ha 500 mL - 1.0 L/ha + the registered rate of a compatible larvicide	21 days (H & G)	This product has ovicidal and larvicidal activity. Ovicidal and Larvicidal Rate: Application should be made on eggs, very small or small larvae only. The most effective timing is on egg hatch. Closely monitor pest populations after application. Use the lower dose rate on light to moderate infestations and the higher rate on heavier infestations. Repeat application as needed to maintain control. Ensure thorough coverage of target areas. Larvae must feed on treated area in order to achieve effective control. Large larvae and larvae feeding within bolls and squares may not be controlled. Ovicidal Rate: Ovicidal rates of SHOWDOWN® 375 should only be used in a tank mix with the registered rate of a compatible larvicide. Time application on egg threshold levels prior to hatching and closely monitor the population. Use the lower rate of SHOWDOWN® 375 where egg pressure is less than 3 eggs per terminal. Use the higher rate of SHOWDOWN® 375 under higher egg pressure. Repeat application to maintain control. Ensure thorough coverage of target areas.

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
Maize, Sweetcorn	Cotton Bollworm (<i>Helicoverpa armigera</i>)	Qld, NSW, Vic, Tas, WA only	1.5 - 2.0 L/ ha	Maize 7 days (H & G) Sweetcorn 7 days (H) 21 days (G)	Closely monitor pest populations during tasselling-silking. If high numbers of medium to large caterpillars are in the tassels, spray at tassel emergence. Egg-laying is heaviest during green silk formation. Time applications to coincide with egg hatching. Ensure thorough coverage of target areas.
Potatoes	Heliothis (Budworms) (<i>Helicoverpa</i> spp.)	All States	1.0 L/ ha	7 days (H) 21 days (G)	Time application to coincide with egg hatching and closely monitor pest populations. Larvae should be no larger than 2 - 3 mm in length at application. Ensure thorough coverage of target area. Follow up treatments may be required to maintain pest control. For resistance management a maximum of 2 applications of Group 1A (carbamate) insecticides (e.g. SHOWDOWN® 375) is recommended per crop. If an application failure is suspected to be due to insecticide resistance, seek advice from your state agriculture or primary industry department. DO NOT follow up with another application of SHOWDOWN® 375 or an application from the same insecticide group.
Pulses e.g. Navy Beans, Soybeans, Mungbeans, Pigeon Peas, Chickpeas	Heliothis (Budworms) (<i>Helicoverpa</i> spp.)		500 or 750 mL/ ha	21 days (H & G)	Time application to coincide with egg hatching and closely monitor pest populations. Use the lower dose rate on eggs and very small larvae (up to 3 mm) and light to moderate infestations and the higher rate on small larvae (up to 7 mm) and heavier infestations. Closely monitor pest populations. Repeat application as needed to maintain control. Ensure thorough coverage of target areas.
Tomatoes	Heliothis (Budworms) (<i>Helicoverpa</i> spp.)		<u>Low Volume:</u> 1.4 L/ ha <u>High Volume:</u> 70 mL/100 L water	1 day (H) 21 days (G)	Time application to coincide with egg hatching and closely monitor pest populations. Repeat applications as needed to maintain control. Ensure thorough coverage of target areas by increasing water volume with plant growth stage. Note: Low volume is defined as 400 L or less total spray volume per hectare. High volume is defined as 1000 L or more total spray volume per hectare.
	Heliothis (Budworms) (<i>Helicoverpa</i> spp.), Potato Moth (<i>Phthorimaea operculella</i>)		<u>Low Volume:</u> 500 mL - 1.4 L SHOWDOWN® 375 + 500 g - 1.0 kg Delfin* WG (or other compatible registered Bt product) per ha <u>High Volume:</u> 50 - 100 mL SHOWDOWN® 375 + 50 - 100 g Delfin WG (or other compatible registered Bt product) per 100 L water		Time application to coincide with egg hatching and closely monitor pest populations. Repeat applications as needed to maintain control. Ensure thorough coverage of target areas by increasing water volume with plant growth stage. Note: Low volume is defined as 400 L or less total spray volume per hectare. High volume is defined as 1000 L or more total spray volume per hectare. The lower rates of SHOWDOWN® 375 in mixtures with Bt products provide ovicidal control only. Use higher rates of SHOWDOWN® 375 when larval control is required. Use the higher rate of Delfin WG when Potato Moth is present.
Tobacco	Heliothis (<i>Helicoverpa</i> spp.), Tobacco Looper (<i>Chrysodeixis</i> spp.)	Qld, NSW, Vic only	70 mL/100 L water	Nil (H) 21 days (G)	Time application to coincide with egg hatching and closely monitor pest populations. Repeat applications as needed to maintain control. Ensure thorough coverage of target areas by increasing water volume with plant growth stage.

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

DO NOT USE THIS PRODUCT IN THE HOME GARDEN.

WITHHOLDING PERIOD

(H) = Harvest

BRASSICA, MAIZE, POTATOES, SWEETCORN:

COTTON AND DRIED PULSES:

TOMATOES:

TOBACCO:

(G) = Grazing

ALL CROPS EXCEPT MAIZE:

MAIZE:

DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.

DO NOT HARVEST FOR 21 DAYS AFTER APPLICATION.

DO NOT HARVEST FOR 1 DAY AFTER APPLICATION.

NOT REQUIRED WHEN USED AS DIRECTED.

DO NOT GRAZE OR CUT FOR STOCK FEED FOR 21 DAYS AFTER APPLICATION.

DO NOT GRAZE OR CUT FOR STOCK FEED FOR 7 DAYS AFTER APPLICATION.

GENERAL INSTRUCTIONS

SHOWDOWN® 375 is a non-systemic insecticide, which means that new growth appearing after application will not be protected against insect attack. SHOWDOWN® 375 is an aqueous suspension concentrate formulation that readily disperses in water for spraying by ground or air equipment. It is unstable under highly acidic or highly alkaline conditions, being hydrolytically sensitive to degradation of active constituent by strong acids, strong bases and certain heavy metals and salts. DO NOT apply when weather conditions favour drift from the area to be treated. SHOWDOWN® 375 is only moderately rainfast – rain within 3 hours of application may reduce the effectiveness of this product.

MIXING

Agitate or shake container prior to use. Remove oil, rust, scale, pesticide residues and other foreign matter from sprayer and strainer. Flush with clean water. Use 50 mesh or slotted strainer in spray system. Fill tank approximately half full of water, add this product and mix thoroughly by mechanical or hydraulic action. Add water to desired volume and thoroughly mix again.

APPLICATION

This product may be applied by air or ground equipment. Use a minimum prepared spray volume of 20 L/ha by air (30 L/ha for cotton, 50 L/ha for maize or sweetcorn) and 50 L/ha by ground. A droplet density of a minimum 60 droplets per cm² must be attained. There needs to be some air movement, which preferably should be blowing across the flight path. After use, drain and flush sprayer with water.

COMPATIBILITY

SHOWDOWN® 375 may be mixed with BTK, Dipel* ES, Delfin* WG, and most BT products, and most EC formulations of chlorothalonil, dimethoate, methomyl and monocrotophos. However, before preparing tank mix combinations, it is advisable to mix a small amount of SHOWDOWN® 375 with an equal volume of water in a small container and add the other pesticide. Any mixture which curdles, precipitates or greases should not be used. SHOWDOWN® 375 may also be mixed with mancozeb and copper oxychloride, PROVIDING the mixtures are used within 6 hours. SHOWDOWN® 375 is NOT compatible with other copper and manganese based products, zinc based products, Dithane* DF, with LV, ULV or other oil based formulations, or with vegetable oil diluents. As the formulations of other manufacturers' products are beyond the control of Adama, all mixtures should be tested prior to mixing commercial quantities.

INSECTICIDE RESISTANCE WARNING

For insecticide resistance management

GROUP **1A** INSECTICIDE

SHOWDOWN® 375 is a Group 1A insecticide. Some naturally occurring insect biotypes resistant to SHOWDOWN® 375 and other Group 1A insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if SHOWDOWN® 375 or other Group 1A insecticides are used repeatedly. The effectiveness of SHOWDOWN® 375 on resistant individuals could be significantly reduced. Since the occurrence of resistant insects is difficult to detect prior to use, Adama Australia accepts no liability for any losses that may result from the failure of SHOWDOWN® 375 to control resistant insects. SHOWDOWN® 375 may be subject to specific resistance management strategies. For further information contact your local supplier, Adama representative or local agricultural department agronomist.

PRECAUTIONS

DO NOT allow children access to treated areas. When the product is being applied, human flaggers/markers must be protected by engineering controls such as vehicles with cabs.

Re-entry Period:

DO NOT allow entry into treated areas for 1 day after treatment. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist and a washable hat, chemical resistant gloves and impervious footwear. Clothing must be laundered after each day's use.

DRIFT WARNING

DO NOT apply under weather conditions or from spraying equipment which could be expected to cause spray to drift onto adjacent crops, crop lands, pastures or livestock.

PROTECTION OF LIVESTOCK

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

PROTECTION OF WILDLIFE, CRUSTACEANS AND ENVIRONMENT

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

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 or preferably pressure rinse containers 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 bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

For refillable containers, empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

SAFETY DIRECTIONS

Poisonous if absorbed by skin contact, inhaled or swallowed.

May irritate the eyes and skin. Avoid contact with eyes and skin.

DO NOT inhale spray mist. When opening the container, preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist and washable hat, elbow length PVC gloves, impervious footwear, goggles and half-face respirator or, full facepiece respirator with combined dust and gas cartridge. If product on skin, immediately wash area with soap and water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, goggles, contaminated clothing and respirator and if rubber wash with detergent and warm water.

FIRST AID

If swallowed, splashed on skin or in eyes, or inhaled, contact a Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor at once. Remove any contaminated clothing and wash skin thoroughly. If swallowed, activated charcoal may be advised. Give atropine if instructed.

SDS

Additional information is listed in the safety data sheet (SDS). A safety data sheet for SHOWDOWN® 375 is available from adama.com or call Customer Service on 1800 423 262.

CONDITIONS OF SALE: The use of SHOWDOWN® 375 Insecticide being beyond the control of the manufacturer, no warranty expressed or implied is given by Adama Australia regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and Adama Australia accepts no responsibility for any consequence whatsoever from the use of this product.

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