

WARNING

KEEP OUT OF REACH OF CHILDREN

Syntium® 100SE

Insecticide for the control of certain insect pests in Fodder brassicas.

Active Ingredient: Contains 100g/litre Cyantraniliprole in the form of a suspo-emulsion.

GROUP 28 INSECTICIDE

Registered pursuant to the ACVM Act 1997, No. P010267
See www.foodsafety.govt.nz for registration conditions

In a transport emergency dial 111, Police or Fire Brigade.
For specialist advice in an emergency only call:
0800 734 607 (24 hours).



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Net Contents: 5 litres



adria
CROP PROTECTION SOLUTIONS

GENERAL INSTRUCTIONS: Syntium 100SE insecticide is an anthranilic diamide insecticide. Syntium 100SE insecticide is active on sucking and chewing (Lepidopteran) insect pests in Fodder brassicas. Before application insect populations should be monitored to determine whether an application of Syntium 100SE is required, based on locally determined economic thresholds. More than one application of Syntium 100SE insecticide may be required to control a population of pests. Syntium 100SE primarily works via ingestion but may also have some contact activity. Exposure of the pest species generally results in rapid feeding cessation within a few hours of application. However, the time to death and economic levels of population control may take 3-6 days, depending upon the species. Syntium 100SE insecticide is effective at reducing both direct damage and also the transmission of some insect transmitted diseases as a foliar application in Fodder brassicas.

DIRECTIONS FOR USE: It is an offence to use this product on animals.

DO NOT apply if rainfall is expected within 2 hours of application or if heavy rainfall likely to generate run-off is expected within 48 hours of application.

CROP	PESTS	RATE/HA	CRITICAL COMMENTS
Fodder brassicas	Cabbage white butterfly Diamond back moth Soybean looper European leaf miner Suppression: Grey cabbage aphid	150mL + A non-ionic surfactant (refer to surfactant section)	Regularly scout crops to monitor for eggs and larvae. Apply when insects or damage first appear and before a pest numbers start to increase. Repeat at 2-3 week intervals as required by pest activity. Ensure complete and thorough spray coverage. DO NOT apply more than three (3) applications to any one crop per season and no more than two applications consecutively. Further treatments should be made with alternative mode of action insecticides

It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residues Levels for Agricultural Compounds.

WITHHOLDING PERIODS:

Fodder brassicas - DO NOT GRAZE OR FEED TREATED PRODUCE TO LIVESTOCK WITHIN 14 DAYS OF APPLICATION.

INTEGRATED PEST MANAGEMENT: Syntium 100SE can be used in most Integrated Pest Management (IPM) programmes. Syntium 100SE can help to conserve certain beneficial arthropods (parasites and predators). While these beneficial arthropods cannot be relied upon to control pests, they are of potential value and can be monitored along with pests in pest management programmes on crops.

BEE SAFETY: DO NOT apply Syntium 100SE to flowering crops. Ensure that:

- 1) Flowering weeds are removed before spraying to avoid potential exposure of honey bees;
- 2) Spray drift is avoided into flowering off-crop habitats during application;
- 3) DO NOT apply during bee flight.

MIXING INSTRUCTIONS: Spray equipment should be clean and free of any pesticide residues before applying Syntium 100SE insecticide. Fill spray tank $\frac{1}{4}$ to $\frac{1}{2}$ full of water. Shake the container well and measure the volume of Syntium 100SE required for the area to be sprayed. Add directly to the spray tank with the agitation operating. Mix thoroughly to disperse. Once dispersed, the material must be kept in suspension at all times by continuous agitation. Use mechanical or hydraulic means. DO NOT use air agitation, premix or slurry. Top up the tank with clean water to the required volume. If spray solution is left standing, ensure thorough re-agitation of the spray mix until fully re-suspended. DO NOT allow spray mix to sit overnight, as resuspension may be difficult.

ACIDIFICATION OF THE SPRAY TANK: If the pH of the spray tank after all products have been added and mixed is above pH 8, adjust to pH 8 or less using a registered acidifying agent. If the spray tank pH is 8 or less no adjustment of the spray tank pH is necessary. Spray tanks of pH 8 or less can be held for up to 8 hours before spraying. DO NOT store the spray mixture overnight in the spray tank.

SURFACTANT/WETTING AGENT: Use a non-ionic surfactant at the highest rate recommended for hard-to-wet crops. DO NOT add a non-ionic surfactant/wetting agent if mixing with:

- another product which already contains a surfactant and/or the product label advises not to add a surfactant;
- a liquid fertiliser.

COMPATIBILITY: Syntium 100SE is compatible with most commonly used fungicides, liquid fertilisers, herbicides, insecticides, and biological control products. However, since the formulations of products are always changing, it is advisable to test the physical compatibility of desired tank mixes and check for adverse effects like settling out or flocculation. To determine the physical compatibility, add the recommended proportions of the tank mix products to water,

mix thoroughly and allow to stand for 20 minutes. If the combination remains mixed, or can be re-mixed readily, it is considered physically compatible. Avoid complex tank mixtures of several products or very concentrated spray mixtures. The crop safety of all potential tank-mixtures, including additives and other crop protection agents has not been tested. Before applying any tank-mixture not specifically recommended on this label, the safety to the target crop must be tested. To test for crop safety, apply the combination to a small area of the target crop in accordance with the label instructions to ensure that a phytotoxic response will not occur. The mixing order recommended is: water-soluble bags, water-soluble granules, dry flowable or water-dispersible granules, wettable powders, water-based suspension concentrates, water-soluble concentrates, suspo-emulsions, oil-based suspension concentrates, emulsifiable concentrates, adjuvants and surfactants, soluble fertilisers and drift retardants.

CROP CULTIVARS NOT TESTED: Not all varieties, cultivars or hybrids of crops have been individually tested for crop safety. To test for crop safety, apply the product in accordance with the label directions to a small area of the target crop to ensure that a phytotoxic response will not occur, especially where the application is a new use of the product by the applicator.

APPLICATION: Use sufficient water to ensure thorough coverage of the crop. Adjust water volumes to crop stage. Droplet VMD must be of medium spray quality according to ASABE S572 Standard or the BCPC Guideline.

GROUND APPLICATION: Use a boom sprayer fitted with high flow rate nozzles to apply the highest practical spray volume. Apply in a minimum spray volume of 100 L/ha water. Nozzles with higher rated flows produce larger droplets. Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size, DOES NOT improve canopy penetration and may increase drift potential. WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE. A minimum spray pressure of 275 kPa (40 psi) should be used with fan nozzles applying insecticides. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. When applying Syntium 100SE by ground application, keep the boom height low to prevent spray drift.



AERIAL APPLICATION: Syntium 100SE must only be applied with helicopters fitted with accurately calibrated equipment. Apply a minimum total spray volume of 50 L/ha with nozzles (e.g. CP nozzles or conventional hydraulic nozzles) set to deliver medium spray quality according to ASABE S572 Standard or the BCPC Guideline. A spray drift minimisation strategy must be employed at all times when applying this product. DO NOT apply using Ultra Low Volume (ULV) methods.

MINIMISING SPRAY DRIFT: The interaction of spray equipment and weather-related variables determines the potential for spray drift. The applicator must consider all of these factors when making application decisions. The most effective way to reduce drift potential and maintain efficacy is to apply a volume mean diameter (VMD) 285 - 300 microns. DO NOT apply during surface temperature inversion conditions at the application site. DO NOT apply when wind speed is less than 3km/hr or more than 20km per hour at the application site.

MANDATORY NO-SPRAY ZONES: DO NOT apply if there are aquatic or wetland areas including aquacultural ponds downwind from the application area and within the mandatory no-spray zones shown in this table:

No-Spray zones for Protection of the Aquatic Environment	
Wind Speed Range at Time of Application	Downwind No-Spray Zone
FOR AERIAL APPLICATION	
From 3-20 km per hour	50 metres
FOR GROUND APPLICATION	
From 3-20 km per hour	5 metres

SPRAY EQUIPMENT CLEANOUT: Immediately after application, thoroughly clean all spray equipment to reduce the risk of forming hardened deposits which might become difficult to remove. Drain spray equipment, thoroughly rinse sprayer and flush hoses, boom, and nozzles with clean water. Clean all other associated application equipment. Take all necessary safety precautions when cleaning equipment. DO NOT clean near wells, water sources or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

		<p>UN 3082; Class 9, PGIII. ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cyantraniliprole).</p> <p>Do not carry this product on a passenger service vehicle.</p>
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READ LABEL BEFORE USE



Approved under the HSNO Act 1996, HSR101594. See www.epa.govt.nz for controls.

Qualified Person/Contractor: Required.

WARNING: May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects. Hazardous to terrestrial invertebrates.

SAFETY DIRECTIONS: Keep out of reach of children. Read label before use. Do not breathe fumes, vapours or spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves, clothing and eye protection. Collect Spillage. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area. Do not apply directly into or onto water. Do not apply substance to plants if Bees are foraging, or the plants are in flower or part flower and are likely to be visited by non-target invertebrate pollinators (including bees).

APPLICATION RESTRICTIONS: The maximum application rate for the substance is 15g cyantraniliprole/ha (equivalent to 0.15 L Syntium 100SE/ha), with a maximum of 3 applications per year and a minimum interval period of 14 days between applications.

This substance must be applied by ground-based and helicopter-boom application methods only.

- The substance must be applied with medium droplets, at a minimum, as defined by the American Society of Agricultural and Biological Engineers ASABE Standard (S572) or the British Crop Production Council Guideline.
- The substance must not be applied when wind speeds are less than 3 km/h, or more than 20km/h as measured at the application site.
- Care should be taken when using this substance in Integrated Pest Management as this substance may affect some beneficial insects.

STORAGE: Store locked up in the original, unopened container in a cool, dry, well-ventilated place, out of direct sunlight and away from stockfeed or foodstuffs. As a Class 9 Substance with Ecotoxicity Classifications, storage must be carried out in such a manner as to prevent contamination of waterways. It is recommended that The New Zealand Standard for the Management of Agrichemicals (NZS8409) is followed.

See Safety Data Sheet for further information.

DISPOSAL OF CONTAINER: Triple rinse container and add residue to spray tank.

Return clean, empty container to an AgRecovery site for disposal. Avoid contamination of any water supply with chemical or empty container. Do not burn empty containers.



FIRST AID: If medical advice is needed, have product container or label at hand. Call a POISON CENTER or doctor/physician if you feel unwell. IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before re-use. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Batch No. and Manufacturing Date: See on packaging.

Registered and Distributed by: Adria New Zealand Limited.

P.O. Box 535, 407 State Highway 16 Kumeu, Auckland. Ph: 09 412 9817.

www.adria.nz



Notice to Buyer: Careful tests have proved that the product is suitable for the recommended purposes when used in accordance with our instructions. However, since storage and use of product are beyond our control, we do not therefore accept any liability for damage or loss of efficacy which may result from the use of this product, whether used in accordance with the directions or not. We are liable for a consistent quality of the product, but the risk of its storage and use is not borne by us.

RESISTANCE MANAGEMENT: Syntium 100SE insecticide contains cyantraniliprole, a Group 28 insecticide. Unless directed otherwise on the label, the following practices are recommended to prevent or delay the development of resistance to Syntium 100SE and other Group 28 insecticides.

- Apply Syntium 100SE or other Group 28 insecticides using a "window" approach to avoid exposure of consecutive insect pest generations to the same mode of action. Multiple successive applications of Syntium 100SE are acceptable if they are used to treat a single insect generation.
- Following a "window" of Syntium 100SE or other Group 28 insecticide applications, rotate to a "window" of applications of effective insecticides with a different mode of action.
- DO NOT apply more than three (3) applications to any one crop in a single season and no more than two consecutively.
- The total exposure period of all Group 28 insecticides applied throughout the crop cycle should not exceed 50% of the crop cycle.
- Incorporate IPM techniques into the overall pest management program.
- Monitor insect populations for any loss of field efficacy.

Syntium 100SE insecticide may be subject to alternative resistance management strategies, refer to <http://resistance.nzpps.org> for specific pest strategies. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local farm chemical supplier, consultant, or local representative for the best alternate method of control for your area. Since the occurrence of resistant individuals is difficult to detect prior to use Adria accepts no liability for any losses that may result from the failure of Syntium 100SE to control resistant insects.

READ THIS LABEL COMPLETELY BEFORE USE

This product **MUST NOT** be used for any purpose or in any manner contrary to the controls and conditions of registration.

WARNING: May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects. Hazardous to terrestrial invertebrates.

SAFETY DIRECTIONS: Keep out of reach of children. Read label before use. Do not breathe fumes, vapours or spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment.

Wear protective gloves, clothing and eye protection. Collect Spillage. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area. Do not apply directly into or onto water. Do not apply substance to plants if Bees are foraging, or the plants are in flower or part flower and are likely to be visited by non-target invertebrate pollinators (including bees).

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**IN A TRANSPORT EMERGENCY
DIAL 111, POLICE OR FIRE
BRIGADE.**

**FOR SPECIALIST ADVICE IN AN
EMERGENCY ONLY CALL:
0800 734 607 (24 HOURS)**



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LIQUID, N.O.S.
(CYANTRANILIPROLE).
CLASS: 9, PGIII. HAZCHEM 3Z**

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