

### Adria Crop Protection Solutions

P.O. Box 535  
Kumeu  
Auckland 0841  
New Zealand  
  
Tel: +64-9-412-9817  
info@adria.nz  
Orders Email: orders@adria.nz  
[www.adria.nz](http://www.adria.nz)

# Syntium® 100SE

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



**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
<b>FOR AERIAL APPLICATION</b>	
From 3-20 km per hour	50 metres
<b>FOR GROUND APPLICATION</b>	
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.

**Active Ingredient:** 100g/litre Cyantraniliprole  
**Chemical Group:** **GROUP 28 INSECTICIDE**  
**Formulation:** Suspo-Emulsion (SE)  
**Pack Size:** 1L and 5L

- ✓ **Active on sucking and chewing Lepidopteran pests.**
- ✓ **No cross-resistance to other key chemical groups.**
- ✓ **Active through contact and ingestion.**
- ✓ **Rapid feeding cessation.**

## About Syntium®

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.



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# 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
<b>Fodder brassicas</b>	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.