

DANGER

KEEP OUT OF REACH OF CHILDREN
READ THE LABEL COMPLETELY BEFORE OPENING OR USING

Azamet[®] Granular

A soil fumigant for use in glasshouses, bulk soil and fields by commercial growers to control weeds, nematodes, soil borne fungus diseases, and soil dwelling insects.

Active Ingredient: contains 970g/kg dazomet in the form of a microgranule.



Registered pursuant to the ACVM Act 1997 No. P9804
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).**



Net Contents: 20kg



	<p>HSNO Classifications: 6.1C, 6.3B, 6.4A, 6.5B, 6.8B, 6.9A, 9.1A, 9.2C, 9.3B EPA Approval Code: HSR000790. See www.epa.govt.nz for controls. Qualified Person/Contractor: Required.</p>
<p>DANGER: Toxic if swallowed. May be harmful in contact with skin. Causes mild skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Harmful to the soil environment. Toxic to terrestrial vertebrates. Must not be applied into or onto water. May have an adverse effect on certain soil organisms.</p>	
<p>PRECAUTIONS: Keep out of reach of children. Read label before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. 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. Use personal protective equipment as required. 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. Collect Spillage. STORAGE: Store locked up in the original, unopened container in a cool, dry place, out of direct sunlight and away from stockfeed or foodstuffs. Protect against moisture. Use up entire contents of the pack and do not store part packs. 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.</p>	
<p>EQUIPMENT: Apply using accurately calibrated and well maintained equipment. Thoroughly decontaminate equipment after use. SAFETY DATA SHEET: A SDS and Product Safety Card (PSC) can be located at www.adria.nz or by calling 09-412-9817. PRODUCT DISPOSAL: Ensure unwanted product is used by another operator strictly in accordance with label directions. DISPOSAL OF PACKAGING: Return clean, empty container to an AgRecovery site for disposal. Avoid contamination of any water supply with chemical or empty container.</p> <div style="text-align: right;">  </div>	

FIRST AID: If medical advice is needed, have product container or label at hand. IF SWALLOWED: Rinse mouth. Immediately call a POISON CENTER or doctor/physician. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Call a POISON CENTER or doctor/physician if you feel unwell. 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. IF exposed or concerned: Get medical advice/ attention.

SPILLS: Contain leak or spillage and prevent entry to drains or waterways. Full protective clothing such as PVC or neoprene gloves, waterproof hat, coat and trousers worn outside rubber boots, with suitable respiratory and eye protection, should be worn during clean up and disposal. Keep unprotected people away from site. Absorb spillage with material such as soil or sawdust and dispose of safely.

Batch No. and Manufacturing Date: See on packaging

Registered to 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.

GENERAL INFORMATION: Azamet Granular is a general purpose soil fumigant which is suitable for preparing seed beds to grow vegetables (e.g. for the prevention of clubroot in brassicas), ornamentals, forest tree seeds, or as a soil disinfectant to be used before planting out tomatoes, brassicas, lettuces, strawberries, cut flowers, or before replanting fruit trees or sowing areas of turf such as golf greens. It can also be used to disinfect bulk soil and in glasshouses.

Azamet Granular can be applied by hand (using appropriate gloves such as nitrile gloves) or by suitable applicators. Gas release occurs several hours after incorporation and contact with moisture. Through fumigant action, Azamet Granular controls nematodes, soil inhabiting insects, soil fungi, and many germinating weeds. Azamet Granular provides moderate control of Oxalis spp. Azamet Granular has no long-term toxic effect and planting may resume three to four weeks after treatment. Following the gas release, the soil can be checked for suitability for planting by conducting a germination test (cress test).

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

DIRECTIONS FOR USE:

Restrictions – Do not apply when soil temperatures are high (>32°C) or below 7°C. Pest control may be affected under these conditions. Azamet Granular is toxic to all growing plants. Do not apply within 1 metre of plants or of the drip lines of trees and large shrubs. If slopes are treated, ensure that the chemical is not washed down to any growing plants. Vapour from treated soil in greenhouses may injure growing plants. Store Azamet Granular in a dry, cool place.

Soil:

The soil to be treated should be well prepared and be:

- 1) In a seed bed condition with a finely structured surface;
- 2) Completely free of undecomposed roots and plant matter;
- 3) **In a moist state (field capacity) at least 7 days prior to treatment (watering is critical when the soil is low in moisture content);**
- 4) The soil should not be saturated at the time of incorporation;
- 5) Optimum soil temperatures are between 10°C and 32°C.

Application Rates:

The rates are based on:

- 1) **Glasshouse and Outdoors** application to 20-23cm in soil depth. For the control of free-living nematodes, most root disease causing fungi, soil insects and insect larvae, weeds and weed seeds:
 - On light soils: 400-440 kg/ha (400g / 10 square metres)
 - On loamy soils and soil rich in organic matter: 500-550 kg/ha (500g / 10 square metres)

For the control of cyst forming nematodes (*Heterodera* spp.) and *Verticillium albo atrum* and *Fusarium oxysporum* var. *cubense* infested soils:

- On lightsoils: 550 kg/ha
- On loamy soils and soil rich in organic matter: 660 kg/ha

Soils infested with wilt disease agents (*Verticillium albo atrum*, *Fusarium oxysporum*) should be fumigated to a depth of 30cm. If weed control is predominantly required then Azamet Granular should be incorporated 10-15cm deep. Then a rate of 280 kg/ha (28g / 10 square metres) is sufficient, provided that annual weeds are to be controlled and perennial weeds and rhizomes are not present. The area treated can be irrigated with sprinklers to improve the effectiveness in some soils to prevent the soil surface from drying out.

- 2) **Bulk soils for nursery use:** Azamet Granular can be used to treat large or small quantities of bulk soils. With large quantities, Azamet Granular should be spread at 60g / square metre over every 25cm thick layer of soil as the heap is made up, and then thoroughly incorporated into this layer. This should be repeated every 25cm until the heap is completed, and then cover with polythene and leave for 3 weeks. Alternatively, use 200g per cubic metre of soil – i.e. 0.2 g/litre (cubic decimetre). For small quantities, Azamet Granular can be incorporated and mixed by adding the required amount of granules to the soil and mixing with a soil shredder, placing the soil in polythene sacks, sealing and leaving for at least 3 weeks away from house and plant life before opening. Azamet Granular can also be incorporated into the soil using a spade or hoe. However, the efficacy decreases when the fumigant is not mixed thoroughly with the soil. Higher rates should therefore be used to compensate for poorer soil incorporation when a spade or hoe is used.

Distribution and Incorporation:

Azamet Granular must be evenly distributed on the soil surface. This can be done by hand with appropriate nitrile gloves and protective clothing, or by a fertiliser spreader. Immediately after spreading, Azamet Granular must be thoroughly worked into the upper 15-23cm of the soil. Best results are achieved when a rotary cultivator with L-shaped tines is used. The rotor speed should be high and the tractor should be driven in a low gear.

With both methods, the soil must be at field capacity at the time of treatment for adequate activity. If soil is dry before treatment, wet with 5-10 litres of water per square metre seven days before treatment.

Sealing of the Soil Surface:

To prevent any toxic gases from escaping from the soil, the surface must be sealed.

- 1) Polythene sheets provide the most efficient means of sealing.
- 2) Rolling: Use a heavy flat roller. The seal formed must be maintained by rainfall or irrigation.
- 3) Water: Sufficient water must be applied to compact the soil and form a surface crust.

It is critical that the soil surface be maintained in a moist condition until gas release is complete and the granules have completely disappeared.

Aeration of the Soil:

This can be done by a rotovator, a disc plough or by hand tools (double digging). The soil should be worked no further than depth of incorporation of Azamet Granular. If temperatures are cold (below 10°C) the soil should not be worked for at least 3 weeks. With moderate temperatures, open no earlier than 10 days. Best results can be expected when the soil surface is kept sealed for several months and aeration is delayed until the ground is required for planting.

Note: Only clean and disinfected tools should be used. Disinfect tools and machines by washing with a formaldehyde solution. Also wash boots before entering fumigated soil.

Planting:

All traces of toxic gases must have disappeared from the soil before sowing or planting if possible. With soil temperatures of 10°C, 3-6 weeks are necessary. With soil temperatures above 20°C, 14-21 days are often sufficient for the gases to disappear after aeration. The suitability of the soil for planting can be confirmed with the following germination test (Cress test):

- 1) Take soil samples from both treated and untreated soils at a depth of 10-15cm, by scraping the surface soil away and quickly filling a jam jar with a screw top to the three-quarters mark and immediately closing the jar.
- 2) Place moist cotton wool pads, with cress (lettuce) seeds in the jars, opening them for as short a time as possible.
- 3) Place the jars in a room at about 22°C.
- 4) Check 48 hours later whether seeds have germinated. If the seeds have germinated in the jar with the untreated soil, but not in the jar with the treated soil, the toxic gases have not yet escaped from the treated soil and the soil should be worked again to aerate it.

Note: Transplants to be planted on fumigated soil should be raised on clean, disinfected soil. Otherwise, there is a danger of carrying nematodes disease agents into the fumigated soil, which can rapidly spread and nullify the effects of fumigation.

Fertiliser:

Chemical sterilisation releases nitrogen and the fertiliser programme should be adjusted accordingly.



UN3077; CLASS 9, PG III, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS DAZOMET). Do not carry this product on a passenger service vehicle.