

POISON

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING



emerge™

FLOWABLE SEED TREATMENT

ACTIVE CONSTITUENT: 600 g/L IMIDACLOPRID

GROUP

4A

INSECTICIDE

For control of Thrips, Aphids, Brown Flea Beetle and Wireworms on Cotton; Protection of Canola, Pastures and Lupins from damage by Redlegged Earth Mite and Blue Oat Mite; control of Aphids and prevention of spread of Barley Yellow Dwarf Virus in cereal crops; control of some soil pests of summer crops

IMPORTANT: Read the attached booklet before use

10 to 1000 LITRES

Syngenta Crop Protection Pty Limited

Level 1, 2-4 Lyonpark Road, Macquarie Park NSW 2113

In a transport emergency dial 000, Police or Fire Brigade

For specialist advice in an emergency only, call 1800 033 111 (24 hours)

APVMA Approval No: 63312/10-1000L/0908

Item number

syngenta®

STORAGE AND DISPOSAL

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

(Refillable containers)

Empty contents fully into application equipment. Close all valves and return to point of sale for refill or storage.

(Other containers)

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.

SAFETY DIRECTIONS

Harmful if swallowed. Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Avoid contact with eyes and skin. When opening the container and using the product -wear:

- elbow-length PVC gloves

Wash hands after use. After each day's use, wash gloves.

FIRST AID

If poisoning occurs contact a doctor or Poisons Information Centre. Phone Australia 131 126.

MATERIAL SAFETY DATA SHEET

If additional hazard information is required, refer to the Material Safety Data Sheet. For a copy phone 1800 067108 or visit our website at www.syngenta.com.au

MANUFACTURER'S WARRANTY AND EXCLUSION OF LIABILITY

Syngenta has no control over storage, handling and manner of use of this product. Where this material is not stored, handled or used correctly and in accordance with directions, no express or implied representations or warranties concerning this product (other than non-excludable statutory warranties) will apply. Syngenta accepts no liability for any loss or damage arising from incorrect storage, handling or use.

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APVMA Approval No: 63312/10-1000/0908
Item No

Batch Number	
Date of Manufacture	

Drummuster
(where applicable)

Barcode

SHAKE WELL BEFORE USE

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DIRECTIONS FOR USE

Crop	Pest	Rate	Critical Comments
Canola	Aphids	400 mL/100 kg seed	EMERGE will protect canola seedlings from early season aphid damage.
	Redlegged Earth Mite, Blue Oat Mite		<p>EMERGE will protect emerging seedlings for 3 to 4 weeks after sowing. Crops must be monitored in the first 4 weeks of emergence to ensure EMERGE performance and determine the need for supplementary control measures.</p> <p>Use EMERGE treatment as part of an integrated mite management program that might include:</p> <p>For autumn sowing: After a pasture phase sow EMERGE treated seed following a well timed spring spray (prior to the development of diapause eggs) of an omethoate insecticide.</p> <p>After a cropping phase a spring spray is not usually required, however if monitoring in spring finds moderate mite populations, a spring spray should be applied.</p> <p>For spring sowing: After a pasture phase monitor for mite activity and if necessary apply a spray of omethoate insecticide prior to sowing EMERGE treated seed.</p> <p>EMERGE does not affect the viability of Rhizobia when EMERGE is mixed with inoculant and seed is sown immediately into a moist soil.</p>
Cereals	Feeding damage caused by Wheat Aphid and Corn Aphid	120 or 240 mL/100 kg seed	Use higher rate for increased length of control and in areas of high risk.
	Spread of Barley Yellow Dwarf Virus		In high risk areas with over 500 mm rain or moderate risk areas with over 400 mm rain in seasons following summer rains, a synthetic pyrethroid top up spray should be applied 7 to 8 weeks after sowing.
Cotton	Thrips	875 mL or 1.17 L/100 kg seed	Thrips damage is dependent upon the number of thrips infesting cotton seedlings and the growth rate of the plants. Choose the higher rate if high thrips pressure is expected (eg winter cereals and weeds supporting thrips) and/or cotton seedlings are expected to experience slow growth (eg cool weather from early planting or sown in shorter season districts). The lower rate is considered a general rate for normal conditions.
	Aphids		When applied for thrips control, these rates will also control early season aphids.
	Brown Flea Beetle		When applied for thrips control, these rates will also reduce damage to cotyledons caused by brown flea beetle.
	Wireworms		Use the higher rate for increased length of control.

Crop	Pest	Rate	Critical Comments
Forage and Seed Pasture eg: Grasses such as Ryegrass, Fescue and Phalaris; Clovers such as Subterranean, White, Red and Strawberry; Medics; Lucerne	Redlegged Earth Mite, Blue Oat Mite	400 mL/100 kg seed	EMERGE will protect emerging seedlings for 3 to 4 weeks after sowing. Crops must be monitored in the first 4 weeks of emergence to ensure EMERGE performance and determine the need for supplementary control measures. Use EMERGE treatment as part of an integrated mite management program that might include: For autumn sowing: After a pasture phase sow EMERGE treated seed following a well timed spring spray (prior to the development of diapause eggs) of an omethoate insecticide. After a cropping phase a spring spray is not usually required, however if monitoring in spring finds moderate mite populations, a spring spray should be applied. For spring sowing: After a pasture phase monitor for mite activity and if necessary apply a spray of omethoate insecticide prior to sowing EMERGE treated seed. EMERGE does not affect the viability of Rhizobia when EMERGE is mixed with inoculant and seed is sown immediately into a moist soil.
Forage Brassicas Kale, Turnips, Rape, Swedes		300 mL/100 kg seed	
Lupins			
Maize, Sorghum, Sunflower, Sweet Corn	Sugarcane Wireworm (<i>Agrypnus variabilis</i>), Eastern False Wireworm (<i>Pterohelaeus darlingensis</i>) , , Striate False Wireworm (<i>Pterohelaeus alternatus</i>) , Southern False Wireworm (<i>Gonocephalum macleayi</i>) , Black Field Earwig (<i>Nala lividipes</i>) , Wingless Cockroach (<i>Cosmozosteria</i> spp., <i>Calolampra elegans</i> , <i>C. solida</i>), Field Cricket (<i>Teleogryllus commodus</i>) , Black Sunflower Scarab (<i>Pseudoheteronyx basicollis</i>)	Maize: 1.4 mL/1000 seeds Sorghum, Sunflower, Sweet Corn: 430 mL/100 kg seed	Apply only to high quality seed. Ensure thorough coverage of seed. See General Instructions for how to treat seed.

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

WITHHOLDING PERIODS

Harvest

Cotton and food producing crops:

NOT REQUIRED WHEN USED AS DIRECTED

Grazing

Maize, Sorghum or Sweet Corn plants grown from treated seed:

DO NOT GRAZE OR CUT FOR STOCK FOOD, WITHIN 4 WEEKS OF SOWING

Pasture, Canola, forage Brassica or Lupin plants grown from treated seed:

DO NOT GRAZE OR CUT FOR STOCK FOOD, WITHIN 6 WEEKS OF SOWING

Cereal grown from treated seed:

DO NOT GRAZE OR CUT FOR STOCK FOOD, WITHIN 9 WEEKS OF SOWING

GENERAL INSTRUCTIONS

Insecticide Resistance Warning

GROUP	4A	INSECTICIDE
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For insecticide resistance management, EMERGE Flowable Seed Treatment is a Group 4A insecticide. Some naturally occurring insect biotypes resistant to EMERGE 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 EMERGE and other Group 4A insecticides are used repeatedly. The effectiveness of EMERGE on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Syngenta Crop Protection Pty Limited accepts no liability for any losses that may result from the failure of EMERGE to control resistant insects. EMERGE may be subject to specific resistance management strategies. For further information contact your local supplier, Syngenta representative or local agricultural department agronomist.

Mixing And Seed Treatment

Cotton

Prior to pouring or pumping EMERGE from the container, either shake container vigorously or operate pump by-pass to ensure thorough mixing of the contents. Flowable formulations will settle over time. Add most of the water into the mixing vat followed by flowable fungicides, coating agents and EMERGE and stir until homogeneous. Then add the emulsifiable liquid fungicide (eg APRON® XL 350 ES Fungicide Seed Treatment) slowly whilst stirring. Calibrate commercial seed dressing equipment to ensure the seed throughput is mixed with the correct dose of slurry seed dressing. Ensure the seed dressing mixture is applied to the maximum number of seeds when initially applied to the seed. Retain seed in mixing chamber until coverage on seed is good. Store treated seed under cover in cool, dry conditions. Do not treat seed with poor viability. Do not store treated seed near foodstuffs or where likely to prove hazardous to humans or animals.

Forage and seed pasture, canola, lupins, summer crops

Prior to pouring, shake container vigorously, then add the required quantity of EMERGE to sufficient water to give even coverage of the seed to be treated. Place seed in mixing equipment and rotate. Mix EMERGE with sufficient water to give even coverage of seed and spray onto seed. For small seeds, apply a total volume, of EMERGE plus water, of 1.5 L/100 kg seed. For large seeds, apply a total volume of EMERGE plus water, of 500 mL/100 kg seed. Continue rotation until all liquid is distributed on seed. Store treated seed under cover in cool, dry conditions. Do not treat seed with poor viability. Do not store treated seed near foodstuffs or where likely to prove hazardous to humans or animals. Do not carry over maize, sorghum, sunflower or sweet corn seed from one season to the next season. The insecticidal activity of EMERGE on the seed is maintained for a minimum of two seasons.

Flow rate: EMERGE treated seed may slow flow rate of seed. Check flow rate of seed through sowing machinery before sowing to ensure the desired seeding rate is achieved.

Cereal crops

Prior to pouring, shake container vigorously, then add the required quantity of EMERGE to sufficient water to give even coverage of the cereal seed to be treated. The quantity of water used for mixing will vary depending on type of equipment and quality of seed. Use a minimum of 400 mL of mixture (ie EMERGE plus water) with each 100 kg of seed. Do not use more than 600 mL of mixture (product + water) with each 100 kg of seed. Whatever dilution is used it is essential that 120 mL (or 240 mL) of EMERGE is applied/100 kg seed. The mixture should be gently stirred regularly.

Seed Quality

EMERGE seed treatment should not be used on seed with more than 12% moisture content, or on sprung, sprouted, damaged or severely pinched seed, or seed of poor viability. If in doubt, have a germination test carried out on the seed before treatment to ensure that it is of acceptable standard. Treating with EMERGE as directed may raise the moisture level of the seed by up to 0.6%, depending on conditions at treatment. The use of EMERGE mixed with water at recommended rates will have no effect on the storage life of treated sound seed.

Storage Of Treated Seed

DO NOT store treated seed near foodstuffs or where likely to prove hazardous to humans or animals. If the seed is not used immediately after treatment it should be stored in a dry, well ventilated place. Although EMERGE has no effect on the viability of treated seed, subsequent germination can be adversely affected by poor storage conditions such as high moisture combined with high temperatures. No liability can therefore be accepted for the performance of stored treated seed.

Compatibility

EMERGE is compatible with Innova Triadimenol 150C Flowable Seed Dressing, and Innova Tebuconazole 25C Flowable Seed Dressing for use on cereal seeds. DO NOT use more than 600 mL of total mixture/100 kg seed (ie EMERGE plus other products plus water). EMERGE may be applied with fluquinconazole seed fungicides or with flowable thiodicarb seed dressing insecticides.

PRECAUTIONS

When treated seed is stored it should be kept apart from other grain and the bags or other containers should be clearly marked to indicate the contents have been treated with this product. DO NOT allow seed treated with this product to contaminate seed intended for human consumption. DO NOT use treated seed for human consumption. Bags which have held treated seed are not to be used for any other purpose.

PROTECTION OF LIVESTOCK

Seed treated with this product must not be used for animal consumption or poultry feed or mixed with animal feed. DO NOT allow seed treated with this product to contaminate seed intended for animal consumption.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate ponds, waterways and drains with this product, used containers or bags which have held treated seed. DO NOT feed treated seed or otherwise expose to wild or domestic birds. Any spillages of treated seed, however minor, must be cleaned up immediately, preferably by recovery and reuse. If disposal is required, ensure treated seeds are thoroughly buried and not accessible to birds and other wildlife.

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(Refillable containers)

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