

EndoFuse®

CONTAINS NON-PLANT FOOD INGREDIENTS: Soil Amending Guaranteed Analysis

8.73% Total Active Ingredients

<i>Glomus intraradices</i>	(5,625 propagules/ml)
<i>Glomus mosseae</i>	(5,625 propagules/ml)
<i>Glomus aggregatum</i>	(5,625 propagules/ml)
<i>Glomus etunicatum</i>	(5,625 propagules/ml)

91.27% Total Inert Ingredients (Carrier)

A concentrated liquid formulation containing 4 high performing endomycorrhizal fungi, formulated for use as an in-furrow spray or seed treatment application for improvement of plant vigour.

GENERAL INFORMATION

EndoFuse is a liquid suspension concentrate that contains living propagules of four species of arbuscular mycorrhizal fungi that colonize the rhizosphere of plants in a symbiotic manner. The mycorrhizal fungi expand out beyond the plant roots or rhizosphere region of the soil surrounding the plant roots to acquire nutrients and water.

Arbuscular mycorrhizal fungi (AMF) form symbiotic associations with roots of most agriculturally important crops. EndoFuse improves plant vigour by enhancing the root system's ability to efficiently absorb water and nutrients under variable environmental conditions throughout the entire crop cycle.

EndoFuse contains 22,500 propagules per mL of endomycorrhizae, consisting of 5,625 propagules of each of the following four species: *Glomus intraradices*, *Glomus mosseae*, *Glomus aggregatum*, *Glomus etunicatum*.

GENERAL USE INSTRUCTIONS

- Apply as an in-furrow spray at planting or as a seed applied treatment prior to planting.
- The goal is to make physical contact between the inoculum and the germinating seed. For in-furrow application direct the application of EndoFuse into the furrow in immediate proximity to the seed.
- Since EndoFuse is most effective when the host plant requires nutrients for optimal plant growth, excessively high levels of phosphorous fertilizer used at planting may reduce the ability of EndoFuse to colonize the plant.
- Ideally plant treated seed within 30 days of treatment. Where treated seed is stored for longer periods use the high rate of EndoFuse.
- Use the higher rate for irrigated crops or denser seeding rates.
- Use the higher rate in poor soils and non ideal seeding conditions.

COMPATIBILITY WITH OTHER AGRICULTURAL PRODUCTS

Compatibility and performance data for EndoFuse with other agricultural products are limited. **DO NOT** tank-mix EndoFuse with other products unless compatibility has been verified. If considering tank-mixing EndoFuse with other products use the following compatibility jar test before mixing an entire tank:

Add water from the same water source to a clear glass or plastic jar. Add the products in correct proportions. Mix thoroughly and let stand for a minimum of 15 minutes. Separation, gelling, or generation of heat are all signs of incompatibility.

Always read and follow all label directions and precautions for each product. When using combinations of products, the most restrictive label limitations and precautions must be followed. **DO NOT** mix EndoFuse with any product that has a prohibition against tank-mixing.

For further information consult your Sumitomo Chemical Australia representative.

SPRAY PREPARATION

Spray equipment must be clean and free of previous pesticide deposits before applying EndoFuse. Fill spray tank ¼ to ½ full of water. Add EndoFuse directly to the spray tank as the last ingredient. Mix thoroughly to fully disperse the product. Once fully dispersed, add remaining amount of water. Continued agitation is required (mechanical or hydraulic). Avoid storage of mixed spray solutions for periods greater than 24 hours. Resuspension of the spray solution after storage is critical.

IMPORTANT: After mixing with water, shake or stir vigorously. Maintain continuous agitation in the mix tank during mixing and application to assure a uniform suspension. When spraying EndoFuse, use filters or screens no smaller than #50 mesh (300 microns).

SEED QUALITY

- Seed treatments applied to low vigor or poor quality seed or to mechanically damaged seed may result in loss of seed germination or reduced seedling vigor.
- Store treated seed in cool dry conditions.
- Due to seed quality and seed storage conditions beyond the control of Sumitomo Chemical Australia Pty Ltd, no claims are made to guarantee the germination of carryover treated seed.

STORAGE CONDITIONS:

Product can be stored in a cool, dry area (less than 45°C) without loss of viability.

Warning:

Wear protective clothing/eye protection/ impervious gloves. Wash hands and face thoroughly after handling. **DO NOT** eat, drink, or smoke when using this product.

Avoid breathing fumes/mist/vapor/spray. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Dispose of contents/container in accordance with local/regional/national regulations.

IMPORTANT NOTICE

These goods are to be used only for the purpose and as specified on the label, and are not suitable for any other purpose. To the fullest extent permitted by law, we do not accept or bear any liability on any basis for any loss, damage, cost or expense, arising in any way, directly or indirectly, in connection with the goods.

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APPLICATION INSTRUCTIONS FOR CROP CATEGORIES:

CROP	APPLICATIONS	USE RATE	CRITICAL COMMENTS
Cereals (Sorghum, Wheat, Barley, Oat, Triticale)	In-furrow or Seed Treatment	10-15 mL/ha 10-15 mL/ha of seed	Apply in-furrow with seed so that the solution contacts the seed to ensure root contact at germination. OR Apply as a seed treatment at a sufficient rate per kg of seed to give 10-15mL of product per hectare when seeding rate is accounted for. If applying as a seed treatment, mix with water at a sufficient dilution to adequately cover all the seeds. 10-15mL of EndoFuse mixed with a minimum of 100 mL and a maximum of 1 Litre of water per hectare of seed equivalent is recommended. <i>Refer to COMPATIBILITY WITH OTHER AGRICULTURAL PRODUCTS section when mixing with other products.</i> <i>Maintain continuous agitation in mix tank during mixing and application to assure a uniform suspension.</i>
Corn	In-furrow or Seed Treatment	10-15 mL/ha 10-15 mL/ha of seed	Apply in-furrow with seed so that the solution contacts the seed to ensure root contact at germination. OR Apply as a seed treatment at a sufficient rate per kg of seed to give 10-15mL of product per hectare when seeding rate is accounted for. If applying as a seed treatment, mix with water at a sufficient dilution to adequately cover all the seeds. 10-15mL of EndoFuse mixed with a minimum of 100 mL and a maximum of 1 Litre of water per hectare of seed equivalent is recommended. <i>Refer to COMPATIBILITY WITH OTHER AGRICULTURAL PRODUCTS section when mixing with other products.</i> <i>Maintain continuous agitation in mix tank during mixing and application to assure a uniform suspension.</i>

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Legumes (Soybean, Mungbean, Chickpea, Faba bean, Lentil, Pigeon Pea, Lablab, Field Pea, Navy bean, Peanut)	In-furrow or Seed Treatment	10-15 mL/ha 10-15 mL/ha of seed	Apply in-furrow with seed so that the solution contacts the seed to ensure root contact at germination. OR Apply as a seed treatment at a sufficient rate per kg of seed to give 10-15mL of product per hectare when seeding rate is accounted for. If applying as a seed treatment, mix with water at a sufficient dilution to adequately cover all the seeds. 10-15mL of EndoFuse mixed with a minimum of 100 mL and a maximum of 1 Litre of water per hectare of seed equivalent is recommended. <i>Refer to COMPATIBILITY WITH OTHER AGRICULTURAL PRODUCTS section when mixing with other products.</i> <i>Maintain continuous agitation in mix tank during mixing and application to assure a uniform suspension.</i>
Rice	In-furrow or Seed Treatment	10-15 mL/ha 10-15 mL/ha of seed	Apply in-furrow with seed so that the solution contacts the seed to ensure root contact at germination. OR Apply as a seed treatment at a sufficient rate per kg of seed to give 10-15mL of product per hectare when seeding rate is accounted for. If applying as a seed treatment, mix with water at a sufficient dilution to adequately cover all the seeds. 10-15mL of EndoFuse mixed with a minimum of 100 mL and a maximum of 1 Litre of water per hectare of seed equivalent is recommended. <i>Refer to COMPATIBILITY WITH OTHER AGRICULTURAL PRODUCTS section when mixing with other products.</i> <i>Maintain continuous agitation in mix tank during mixing and application to assure a uniform suspension.</i>
Cotton	In-furrow or Seed Treatment	10-15 mL/ha 10-15 mL/ha of seed	Apply in-furrow with seed so that the solution contacts the seed to ensure root contact at germination. OR Apply as a seed treatment at a sufficient rate per kg of seed to give 10-15mL of product per hectare when seeding rate is accounted for. If applying as a seed treatment, mix with water at a sufficient dilution to adequately cover all the seeds. 10-15mL of EndoFuse mixed with a minimum of 100 mL and a maximum of 1 Litre of water per hectare of seed equivalent is recommended. <i>Refer to COMPATIBILITY WITH OTHER AGRICULTURAL PRODUCTS section when mixing with other products.</i> <i>Maintain continuous agitation in mix tank during mixing and application to assure a uniform suspension.</i>
Sugarcane	In-furrow or Cane billet Treatment	10-15 mL/ha 10-15 mL/ha of cane billets	Apply in-furrow with cane billets so that the solution contacts the cane billets to ensure root contact at germination. OR Apply as a cane billet treatment at a sufficient rate per tonne of billets to give 10-15mL of product per hectare when seeding rate is accounted for. If applying as a cane billet treatment, mix with water at a sufficient dilution to adequately cover all the billets. 10-15mL of EndoFuse mixed with a minimum of 30L and a maximum of 100L of water per hectare of cane billet equivalent is recommended. <i>Refer to COMPATIBILITY WITH OTHER AGRICULTURAL PRODUCTS section when mixing with other products.</i> <i>Maintain continuous agitation in mix tank during mixing and application to assure a uniform suspension.</i>

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Sunflower	In-furrow or Seed Treatment	10-15 mL/ha 10-15 mL/ha of seed	Apply in-furrow with seed so that the solution contacts the seed to ensure root contact at germination. OR Apply as a seed treatment at a sufficient rate per kg of seed to give 10-15mL of product per hectare when seeding rate is accounted for. If applying as a seed treatment, mix with water at a sufficient dilution to adequately cover all the seeds. 10-15mL of EndoFuse mixed with a minimum of 100 mL and a maximum of 1 Litre of water per hectare of seed equivalent is recommended. <i>Refer to COMPATIBILITY WITH OTHER AGRICULTURAL PRODUCTS section when mixing with other products.</i> <i>Maintain continuous agitation in mix tank during mixing and application to assure a uniform suspension.</i>
Linseed, Poppies, Pyrethrum	In-furrow or Seed Treatment	10-15 mL/ha 10-15 mL/ha of seed	Apply in-furrow with seed so that the solution contacts the seed to ensure root contact at germination. OR Apply as a seed treatment at a sufficient rate per kg of seed to give 10-15mL of product per hectare when seeding rate is accounted for. If applying as a seed treatment, mix with water at a sufficient dilution to adequately cover all the seeds. 10-15mL of EndoFuse mixed with a minimum of 100 mL and a maximum of 1 Litre of water per hectare of seed equivalent is recommended. <i>Refer to COMPATIBILITY WITH OTHER AGRICULTURAL PRODUCTS section when mixing with other products.</i> <i>Maintain continuous agitation in mix tank during mixing and application to assure a uniform suspension.</i>
Grass Pastures, Lucerne, Clover Pastures	In-furrow or Seed Treatment	10-15 mL/ha 10-15 mL/ha of seed	Apply in-furrow with seed so that the solution contacts the seed to ensure root contact at germination. OR Apply as a seed treatment at a sufficient rate per kg of seed to give 10-15mL of product per hectare when seeding rate is accounted for. If applying as a seed treatment, mix with water at a sufficient dilution to adequately cover all the seeds. 10-15mL of EndoFuse mixed with a minimum of 100 mL and a maximum of 1 Litre of water per hectare of seed equivalent is recommended. <i>Refer to COMPATIBILITY WITH OTHER AGRICULTURAL PRODUCTS section when mixing with other products.</i> <i>Maintain continuous agitation in mix tank during mixing and application to assure a uniform suspension.</i>