

50 UNIT PACKAGE

Marauder[®]

Soybean Inoculant System



ADVANCED BIOLOGICAL MARKETING | P.O. Box 222 | Van Wert, OH 45891 | USA | 877.617.2461 | ABM1st.com

Expiration:

Batch:

USE ENCLOSED APPLICATION DIRECTIONS
AND TECHNICAL INFORMATION SHEET
FOR SPECIFIC INSTRUCTIONS.

Net Weight: 1.75 lbs.

Net Contents: 36.25 fl. oz. (1,072 ml)

This package treats 50 x 140k units of soybean seed

Storage instructions:

Protect product from excessive heat. Store in a cool place between 39 and 77 °F out of direct sunlight. Do not allow to freeze. Open packages only when ready to use. Use entire contents after opening.

Caution:

Marauder may be used on either untreated seed or seed that has been treated with a fungicide or insecticide. For seed treated with a fungicide or insecticide, wear appropriate PPE to avoid direct skin contact, and follow the caution statements of the other treatments. In case of direct contact with skin or eyes, immediately flush the exposed area with water. Seek medical attention if irritation develops or persists.

Application Directions:

Marauder is an all liquid system designed for use in a liquid tank mix in commercial seed treatment systems. For good seed coverage, ABM generally recommends that the total liquid slurry be a minimum of 2.5 fl. oz. per 140k unit of soybean seed - (Marauder, non-chlorinated water and approved liquid seed treatments). Experienced seed treaters may choose to decrease the total volume applied.

1. Prior to adding Marauder to the tank, shake well all three Marauder components (liquid rhizobia, extender, liquid bacillus).
2. All three Marauder components (liquid rhizobia, extender, liquid bacillus) are to be used together.
3. Gradually pour Marauder components into **non-chlorinated water** or approved liquid seed treatments.
4. When all three components are combined (liquid rhizobia, extender, liquid bacillus) the mixture is ready to apply.

See more detailed directions and Technical Information on enclosed sheet.

CONTAINS NON-PLANT FOOD INGREDIENTS

Guaranteed Analysis:

Active Ingredient: 2.0% *Bradyrhizobium japonicum* 1×10^{10} cfu/ml and 0.2% *Bacillus licheniformis* 2×10^{10} cfu/ml

Inert Ingredients: 92.0% Water and 5.8% Metabolic Stabilizer



Application Directions and Technical Information

One Marauder bundle contains:	1 x 22.0 oz. Rhizobia bladder per case 1 x 5.0 oz. Extender bottle per case 1 x 2.0 oz. Bacillus bottle per case	One Marauder bundle Treats:	40 x 140k units of soybean seed
Marauder Application Rate:	.725 oz. (by volume) per 140k units of soybean seed		(Achieves seed load rate of over 1 million Rhizobia cells per seed)
Liquid Rhizobia Package (Bladder) Size	One rhizobia bladder contains 22.0 oz. (by volume)	Liquid Rhizobia Formulation and Specification:	Guaranteed Analysis: Active ingredient: Bradyrhizobium japonicum (minimum 1x10 ¹⁰ cfu/ml) 2% Inert ingredients: Water 92% Metabolic Stabilizer 6%
Liquid Rhizobia Application Rate	.55 oz. per 140k soybean seed Extender and Bacillus should always be mixed and applied with liquid rhizobia		
Extender Package Size	One bottle contains 5.0 oz. (by volume)	Extender Formulation:	Starch-based liquid polymer
Extender Application Rate:	.125 oz. per 140k units of soybean seed Extender and Bacillus should always be mixed and applied with liquid rhizobia	One bottle Extender Treats:	40 x 140k units of soybean seed
Bacillus Package Size	One bottle contains 2.0 oz. (by volume)	Bacillus Formulation:	Guaranteed Analysis: Active ingredient: Bacillus licheniformis (minimum 2x10 ¹⁰ cfu/ml) 4% Inert ingredients: Water 90% Metabolic Stabilizer 6%
Bacillus Application Rate:	.05 oz. per 140k units of soybean seed Extender and Bacillus should always be mixed and applied with liquid rhizobia	One bottle Bacillus Treats:	40 x 140k units of soybean seed
Application Directions:	<p>Marauder is an all liquid system designed for use in a liquid tank mix in commercial seed treatment systems. For good seed coverage, ABM generally recommends that the total liquid slurry be a minimum of 2.5 fl oz per 140k unit of soybean seed - (Marauder, non-chlorinated water and approved liquid seed treatments)</p> <p>Experienced seed treaters may choose to decrease the total volume applied.</p> <ol style="list-style-type: none"> 1. Prior to adding Marauder to the tank, shake well all three Marauder components (liquid rhizobia, extender, liquid bacillus). 2. All three Marauder components (liquid rhizobia, extender, liquid bacillus) are to be used together. 3. Gradually pour Marauder components into non-chlorinated water or approved liquid seed treatments. 4. When all three components are combined (liquid rhizobia, extender, liquid bacillus) the mixture is ready to apply. 		
Tank Mix Time Restrictions:	<p>To maintain inoculants viability, there is a maximum time Marauder can be kept in the mix tank:</p> <ol style="list-style-type: none"> 1. Marauder alone or with non-chlorinated water should be applied to seed within 24 hours. 2. With approved seed treatments, Marauder should be applied to seed within 4 hours. 		
New Soybean Ground or Adverse Crop Conditions	<p>Recommendations for Adverse Conditions or New "Virgin" Soybean Fields – If soil has not hosted the specific legume for more than three (3) years; Soil pH is less than 5.8 (The pH should be adjusted by liming prior to inoculation); Soil pH is more than 8.5; Soil organic matter is less than 1.5%; Drought or flooding has occurred; Topsoil conditions exceed 80° F; Soil erosion, or with the use of soil treatments and chemicals injurious to soil bacteria and inoculants, to Maximize Soybean Yield Potential: When planting soybeans under the conditions listed above, ABM recommends a double (2X) rate of inoculants. Follow these recommendations.</p> <p>If using Marauder, achieve a 2X inoculants rate as follows:</p> <ol style="list-style-type: none"> a. Apply a 1X rate of Marauder no more than 30 days prior to planting. b. Additionally, apply at planting, a 1X rate of an America's Best Inoculant formulation: ABI Sterile Peat <p>Please contact your ABM representative at 877-617-2461 for a specific recommendation.</p>		
Storage Instructions:	Protect product from excessive heat. Store in a cool place between 39 and 77 ° F out of direct sunlight. Do not allow to freeze. Open packages only when ready to use. Use entire contents after opening.		