

# Marauder<sup>®</sup>

## Soybean Inoculant System



ADVANCED BIOLOGICAL MARKETING | P.O. Box 222 | Van Wert, OH 45891 | USA | 877.617.2461 | [ABM1st.com](http://ABM1st.com)

Expiration:

Batch:

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

**Net Weight: 3.495 lbs.**  
**Net Contents: 72.5 fl. oz**

This package treats 100 x 140k units of soybean seed



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### Application Directions and Technical Information

<b>One Marauder bundle contains:</b>	1 x 55 oz. Rhizobia bladder per case 1 x 12.5 oz. Extender bottle per case 1 x 5 oz. Bacillus bottle per case	<b>One Marauder bundle Treats:</b>	100 x 140k units of soybean seed
<b>Marauder Application Rate:</b>	.725 oz. (by volume) per 140k units of soybean seed		(Achieves seed load rate of over 1 million Rhizobia cells/seed)
<b>Liquid Rhizobia Package (Bladder) Size</b>	One rhizobia bladder contains 55 oz (by volume)	<b>Liquid Rhizobia Formulation and Specification:</b>	<b>Guaranteed Analysis:</b> Active ingredient: Bradyrhizobium japonicum (minimum 1x10 <sup>10</sup> cfu/ml) 2% Inert ingredients: Water 92% Metabolic Stabilizer 6%
<b>Liquid Rhizobia Application Rate</b>	.55 oz. per 140k soybean seed Extender and Bacillus should always be mixed and applied with liquid rhizobia		
<b>Extender Package Size</b>	One bottle contains 12.5 oz. (by volume)	<b>Extender Formulation:</b>	Starch-based liquid polymer
<b>Extender Application Rate:</b>	.125 oz. per 140k units of soybean seed Extender and Bacillus should always be mixed and applied with liquid rhizobia	<b>One bottle Extender Treats:</b>	100 x 140k units of soybean seed
<b>Bacillus Package Size</b>	One bottle contains 5 oz. (by volume)	<b>Bacillus Formulation:</b>	<b>Guaranteed Analysis:</b> Active ingredient: Bacillus licheniformis (minimum 2x10 <sup>10</sup> cfu/ml) 4% Inert ingredients: Water 90% Metabolic Stabilizer 6%
<b>Bacillus Application Rate:</b>	.05 oz. per 140k units of soybean seed Extender and Bacillus should always be mixed and applied with liquid rhizobia	<b>One bottle Bacillus Treats:</b>	100 x 140k units of soybean seed
<b>Application Directions:</b>	<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 a minimum of 2.5 oz. liquid slurry per 140k units of soybean seed, in any combination of <b>non-chlorinated water</b> and approved liquid seed treatments (See chart on reverse.) Experienced seed treaters may choose to decrease the total volume applied.</p> <ol style="list-style-type: none"> <li>Prior to adding Marauder to the tank, shake well all three Marauder components (liquid rhizobia, extender, liquid bacillus).</li> <li>All three Marauder components (liquid rhizobia, extender, liquid bacillus) are to be used together.</li> <li>Gradually pour Marauder components into <b>non-chlorinated water</b> or approved liquid seed treatments.</li> <li>When all three components are combined (liquid rhizobia, extender, liquid bacillus) the mixture is ready to apply.</li> </ol>		
<b>Tank Mix Time Restrictions:</b>	<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"> <li>Marauder alone or with <b>non-chlorinated water</b> should be applied to seed within 24 hours.</li> <li>With approved seed treatments, Marauder should be applied to seed within 4 hours.</li> </ol>		
<b>New Soybean Ground or Adverse Crop Conditions</b>	<p><b>Recommendations for Adverse Conditions or New “Virgin” Soybean Fields</b> – 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 <b>Maximize Soybean Yield Potential:</b> When planting soybeans under the conditions listed above, ABM recommends a double (2X) rate of inoculants. <b>Follow these recommendations.</b></p> <p>If using Marauder, achieve a 2X inoculants rate as follows:</p> <ol style="list-style-type: none"> <li>Apply a 1X rate of Marauder no more than 30 days prior to planting.</li> <li>Additionally, apply at planting, a 1X rate of an America’s Best Inoculant formulation: ABI Sterile Peat</li> </ol> <p><b>Please contact your ABM representative at 877-617-2461 for a specific recommendation.</b></p>		
<b>Storage Instructions:</b>	<p>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.</p>		