



# Marauder<sup>®</sup>

## Soybean Inoculant System

### TECHNICAL INFORMATION & APPLICATION DIRECTIONS

One Marauder bundle contains:	1 x 22.0 fl. oz. Rhizobia bladder per case 1 x 5.0 fl oz. Extender bottle per case 1 x 2.0 fl oz. Bacillus bottle per case	One Marauder bundle treats:	40 x 140k units of soybean seed (Achieves seed load rate of over 1 million Rhizobia cells/seed)
Marauder Application Rate:	0.725 fl. oz. (by volume) per 140k units of soybean seed		
Liquid Rhizobia Package (Bladder) Size	One rhizobia bladder contains 22.0 fl. oz. (by volume)	Liquid Rhizobia Formulation and Specification:	<b>Guaranteed Analysis:</b> Active ingredient <i>Bradyrhizobium japonicum</i> & <i>Bradyrhizobium elkanii</i> (minimum 1x10 <sup>10</sup> cfu/ml)
Liquid Rhizobia Application Rate	0.55 fl. 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 fl. oz. (by volume)	Extender Formulation:	Starch-based liquid polymer
Extender Application Rate:	0.125 fl. 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 fl. oz. (by volume)	Bacillus Formulation:	<b>Guaranteed Analysis:</b> Active ingredient: <i>Bacillus paralicheniformis</i> (minimum 2x10 <sup>10</sup> cfu/ml)
Bacillus Application Rate:	0.05 fl. 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, Agrauxine Corp. generally recommends a minimum of 2.5 fl. oz. liquid slurry per 140k units of soybean seed, in any combination of <b>non-chlorinated water</b> and approved liquid seed treatments. For current compatibilities, contact your Agrauxine Corp. representative or call 877-617-2461. Experienced seed treaters may choose to decrease the total volume applied.</p> <ol style="list-style-type: none"> <li>1. Prior to adding Marauder to the tank, thoroughly shake all three Marauder components (liquid rhizobia, extender, liquid bacillus).</li> <li>2. All three Marauder components (liquid rhizobia, extender, liquid bacillus) are to be used together.</li> <li>3. Gradually pour Marauder components into <b>non-chlorinated water</b> or approved liquid seed treatments. When all three components are combined (liquid rhizobia, extender, liquid bacillus) the mixture is ready to apply.</li> </ol>		



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<p><b>Tank Mix Time Restrictions:</b></p>	<p>To maintain inoculant viability, there is a maximum time Marauder can be kept in the mix tank:</p> <ol style="list-style-type: none"> <li>1. Marauder alone or with <b>non-chlorinated water</b> should be applied to seed within 24 hours.</li> <li>2. With approved seed treatments, Marauder should be applied to seed within 4 hours.</li> </ol>
<p><b>New Soybean Ground or Adverse Crop Conditions:</b></p>	<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, Agrauxine Corp. recommends a double (2X) rate of inoculants. <b>Follow these recommendations.</b> If using Marauder, achieve a 2X inoculants rate as follows:</p> <ol style="list-style-type: none"> <li>a. Apply a 1X rate of Marauder no more than 30 days prior to planting.</li> <li>b. Additionally, apply at planting, a 1X rate of an America’s Best Inoculant formulation: ABI Sterile Peat</li> </ol> <p><b>Please contact your Agrauxine Corp. representative at 877-617-2461 for a specific recommendation.</b></p>
<p><b>Storage Instructions:</b></p>	<p>Protect product from excessive heat. Store in a cool place between 40° 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>

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