

# PENNAMIN<sup>®</sup> Mn

## L-Amino Acid Sprayable Powder

PERFORMANCE  
NUTRITION<sup>®</sup>

### 9-0-0 + 7% Mn

#### GUARANTEED ANALYSIS

Total Nitrogen (N)	9.0%
10.0% Other Water Soluble Nitrogen	
Manganese (Mn)	7.0%
7.0% Chelated Manganese (Mn)	
Derived from amino acids, manganese sulfate and IDS	

#### AMINO ACID PROFILE

Amino Acid	Total AA %	Free AA %	Amino Acid	Total AA %	Free AA %
Alanine	3.4%	3.3%	Methionine	0.4%	0.4%
Arginine	4.6%	4.2%	Phenylalanine	3.4%	3.3%
Aspartic Acid	5.1%	5.1%	Proline	7.6%	7.6%
Cystine	1.5%	0.9%	Serine	8.8%	8.8%
Glutamic Acid	7.7%	7.3%	Threonine	3.3%	3.3%
Glycine	5.8%	5.5%	Tyrosine	0.6%	0.5%
Histidine	0.5%	0.5%	Valine	5.8%	4.0%
Isoleucine	3.3%	2.6%	Total Amino Acid %:		68.7%
Leucine	5.5%	5.1%	FREE Amino Acid %:		63.6%
Lysine	1.3%	1.2%	N from Amino Acids:		9.4%

### KEEP OUT OF REACH OF CHILDREN



#### WARNING

May cause damage to organs through prolonged or repeated exposure.

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapfco.org/metals.htm> or by writing to LidoChem LLC at the address on this label and referring to the lot/batch # on this container.

#### GENERAL INFORMATION

Pennamin<sup>®</sup> Mn contains 9% N and 7% Mn, as well as a comprehensive package of 17 L amino acids, all of which are free amino acids. Amino acids are a source of organic nitrogen, an essential nutrient for all plants and microorganisms, and are easily broken down and digested.

Pennamin Mn is rapidly absorbed through the stomates and translocated within the plant to correct manganese deficiencies and enhance general vigor.

#### APPLICATION INSTRUCTIONS

Pennamin products can be incorporated into liquid fertilizers or applied separately. Soil applications may be made either by sprinkler or band application.

Use a minimum of 5 gallons of water per pound of Pennamin.

Pennamin Mn can be used on turf, ornamentals, flowers, fruits, vegetables, tree and vine crops, row crops, field crops, trees, etc.

#### Application Rate:

Apply 1.0 to 5.0 pounds of Pennamin Mn per acre (0.4 to 2.0 ounces per 1,000 ft<sup>2</sup>).

For trees, tree crops and vines crops dilute 0.5 - 2.0 pounds of Pennamin Mn in 125 gallons of water.

#### Timing of foliar sprays:

- Apply every 14 to 28 days as needed.
- Applications on turf and ornamentals can be made throughout the growing season.

**Note:** Frequent applications at lower rates are generally more effective than fewer applications at higher rates.

#### COMPATIBILITY

##### DO NOT mix with Phosphates

Do not mix with pesticides or other chemicals without a compatibility test. Pennamin Mn is compatible with most common foliar pesticides and nutrients; however, USER ASSUMES FULL RESPONSIBILITY to ensure compatibility when tank mixing with other products.

#### MIXING INSTRUCTIONS

Fill tank with half the water, add Pennamin Mn while agitating solution, then add balance of water.

#### PRECAUTIONARY STATEMENTS:

Do not breathe dust/fume/mist/vapours/spray. Get medical advice/attention if you feel unwell.

Dispose of contents/container to an approved waste disposal plant in accordance with local/regional/national regulations.

#### CONDITIONS OF SALE

Seller warrants this product consists of the ingredients specified and is reasonably fit for the purpose stated on this label when used in accordance with directions under normal conditions and use. No one other than an officer of the seller is authorized to make any warranty, guarantee, or direction concerning this product. Because time, place, rate of application and other conditions of use are beyond the sellers control, the sellers liability from handling, storage, and use of this product is limited to replacement of the product or a refund of the

Do not apply near water, storm drains or drainage ditches. Do not apply if heavy rain is expected. Apply this product only to your lawn and sweep any product that lands on the driveway, sidewalk, or street back onto your lawn.

## DO NOT STORE SOLUTION

Guaranteed and Distributed By:  
LidoChem LLC - Performance Nutrition Division

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#### NET WEIGHT

## 50 lb. (22.7 kg.)