

# PENNAMIN Fe&Mn

9-0-0

4% Fe + 3% Mn

Patented Amino Acid Sprayable Powder

## Guaranteed Analysis

Total Nitrogen (N)	9.0%
9.0% Other Water Soluble Nitrogen	
Iron (Fe)	4.0%
4.0% Chelated Iron (Fe)	
Manganese (Mn)	3.0%
3.0% Chelated Manganese (Mn)	

Derived from amino acids, ferrous sulfate, manganese sulfate and IDS

## Amino Acid Profile

Cystine	Alanine	Arginine	Aspartic Acid
0.9%	3.0%	3.7%	4.4%
Glutamic Acid	Glycine	Histidine	Isoleucine
6.6%	5.1%	0.7%	1.8%
Leucine	Lysine	Methionine	Phenylalanine
4.3%	1.0%	0.3%	3.1%
Proline	Serine	Threonine	Tyrosine
6.7%	7.7%	2.8%	0.8%
Valine	Amino Acid %:	N from Amino Acids:	
3.5%	56.4%	8.7%	

**CAUTION: KEEP OUT OF REACH OF CHILDREN**



**WARNING**

Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure.

## PRECAUTIONARY STATEMENTS:

Do not breathe dust/fume/mist/vapours/spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye and face protection.

**IF SWALLOWED:** Call a poison control center or doctor/physician if you feel unwell. Rinse mouth.

**IF ON SKIN:** Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. If eye irritation persists: Get medical attention/advice.

If exposed or concerned: Call a poison center or doctor/physician. Get medical advice/attention if you feel unwell. Take off contaminated clothing and wash it before reuse. Dispose of contents/container to an approved waste disposal plant in accordance with local/regional/national regulations.

## General Information

Pennamin® Fe&Mn powder contains **9% N, 4% Fe and 3% Mn**, as well as a blend of 17 different *L-amino acids*, **100% of which are free amino acids**. Amino acids are a source of organic nitrogen, an essential nutrient for all plants and microorganisms, and are more easily broken down and digested.

Pennamin Fe&Mn is rapidly absorbed through the stomates and trans-located within the plant to correct iron and manganese deficiencies and enhance general vigor.

## General Recommendations

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 Fe&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 Fe&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 - 3.0 pounds of Pennamin Fe&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.*

## Mixing Instructions

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

## Compatibility

### DO NOT mix with Phosphates

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

**DO NOT STORE SOLUTION**

## 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 seller's control, the seller's liability from handling, storage, and use of this product is limited to replacement of the product or a refund of the purchase price.

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.

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, Inc. at the address on this label and referring to the lot/batch # on this container.

**40 lb. (18.1 kg.) @ 68°F**

Guaranteed and Distributed By:  
LidoChem, Inc.

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**PERFORMANCE**  
NUTRITION

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