

**DEPARTMENT OF AGRICULTURE**

**PESTICIDE AND PLANT PESTICIDE MANAGEMENT DIVISION**

**REGULATION NO. 634. COMMERCIAL FERTILIZERS**

(By authority conferred on the director of agriculture by section 15 of Act No. 198 of the Public Acts of 1975, being S286.765 of the Michigan Compiled Laws)

**R 285.634.1 Fertilizers for agricultural crop production.**

Rule 1. Additional plant nutrients, other than nitrogen, phosphorus, and potassium, claimed to be present in any form or manner in agricultural fertilizers, shall be guaranteed on the elemental basis at levels not less than the following:

Boron	0.125% minimum	Iron	0.10% minimum
Calcium	1.00% minimum	Molybdenum	0.04% minimum
Magnesium	1.00% minimum	Sulfur	1.00% minimum
Manganese	1.00% minimum	Zinc	0.50%
minimum or as			
Copper	0.50% minimum or as		a chelate at
0.125%			
	a chelate at 0.10%		

History: 1979 AC.

**R 285.634.2 Specialty fertilizers; micronutrient content.**

Rule 2. Additional plant nutrients, other than nitrogen, phosphorus, and potassium, claimed to be present in any form or manner in specialty fertilizers, shall be guaranteed on the elemental basis at levels not less than the following:

Calcium	1.00%	Iron	0.10%
Magnesium	0.50%	Manganese	0.05%
Sulfur	1.00%	Molybdenum	0.0005%
Boron	0.02%	Zinc	0.05%
Copper	0.05%	Chlorine	0.10%

History: 1979 AC.

**R 285.634.3 Placement of micronutrient guarantees on label.**

Rule 3. Guarantees or claims for the additional plant nutrients listed in R 285.634.1 and R 285.634.2 are the only ones that will be accepted. Any of the elements guaranteed shall appear in the guaranteed analysis section of the label immediately

following the guarantees for the primary nutrients of nitrogen, phosphorus, and potassium.

History: 1979 AC.

**R 285.634.4 Slowly available plant nutrients.**

Rule 4. (1) A fertilizer label shall not bear a statement that connotes or implies the presence of a slowly available plant nutrient, unless the nutrient is identified.

(2) When a fertilizer label implies or connotes that the nitrogen is slowly available through the use of words such as "organic," "organic nitrogen," "ureaform," "long lasting," or similar terms, the guaranteed analysis shall indicate the percentage of water insoluble nitrogen. This requirement shall not apply to manipulated animal and composted vegetable materials distributed as such and not mixed with other materials. The label shall not bear a reference to slowly available nitrogen when water insoluble nitrogen is less than 15% of the total nitrogen.

(3) The term "coated--slow release" may be accepted as descriptive of products and shall be allowed on labeling when the manufacturer can provide acceptable data substantiating the claim.

History: 1979 AC.

**R 285.634.5 Specialty fertilizer labeling format.**

Rule 5. The following information, if not appearing on the face or display side of a container in a readable and conspicuous form, shall occupy at least the upper third of a side of the container and shall be considered the label:

(a) Net weight.

(b) Brand name and grade.

(c) Guaranteed analysis:

Total nitrogen (N) \_\_\_\_\_ %  
\_\_\_\_\_ % Ammoniacal nitrogen (if claimed)  
\_\_\_\_\_ % Nitrate nitrogen (if claimed)  
\_\_\_\_\_ % Water insoluble nitrogen (required when  
terms described in R 285.634.4 are used)  
Available phosphoric acid (P205) \_\_\_\_\_ %  
Soluble potash (K20) \_\_\_\_\_ %  
Additional plant nutrients

(d) Sources of nutrients when shown.

(e) Potential acidity or basicity in terms of calcium carbonate equivalent per ton (if claimed).

(f) Name and address of the registrant.

History: 1979 AC.

**R 285.634.6 Soil conditioners.**

Rule 6. A registration shall not be issued for a product that represents itself by label or supplemental material, leaflets, or advertising to improve the physical nature of the soil by altering the soil structure, by making soil nutrients more available, or otherwise enhancing the soil media resulting in beneficial crop response, unless the manufacturer or distributor of the product can provide scientifically acceptable data from experimentation which give reasonable assurance that such benefits as claimed can be expected to occur and are of definitive benefit to plant growth.

History: 1979 AC.

**R 285.634.7 Tonnage reporting.**

Rule 7. Tonnage reports and fee payment shall be on a form provided by the director of the department of agriculture and shall be for the semiannual periods of January 1 to June 30, and July 1 to December 31, of each calendar year. The reports shall cover all fertilizers, soil conditioners, and peat products sold for soil application in this state.

History: 1979 AC.

**R 285.634.8 Rescission.**

Rule 8. Regulation No. 200, being R 285.200 of the Michigan Administrative Code and appearing on pages 3108 to 3111 of the 1964-65 Annual Supplements to the Code, is rescinded.

History: 1979 AC.