OFFICE OF THE TEXAS STATE CHEMIST

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FERTILIZER INDUSTRY MEMORANDUM 5-11

FERTILIZER MIXTURES THAT CONTAIN NUTRIENT STABILIZER ADDITIVES

OBJECTIVE:

To define registration, labeling, and measurement requirements of nutrient stabilizer additives in accordance with the Texas Commercial Fertilizer Control Act §63.002 and the Texas Commercial Fertilizer Rules §65.17 and §65.27.

BACKGROUND:

The Texas Commercial Fertilizer Code §63.002 explains that unless otherwise stated in the Act, a substance is subject to the Law if it is a fertilizer material (§63.001(8)), a mixed fertilizer (§63.001(11)), a customer-formula fertilizer (§63.001(5), or any other substance or material that is intended for use, or used, as a component of a mixture that is intended to promote plant growth. This provision allows the Texas Feed and Fertilizer Control Service to enforce requirements pertaining to the registration, labeling, and measurement of certain agricultural products incorporated in commercial fertilizer mixtures.

As per the Texas Commercial Fertilizer Rules §65.17(e)(3), the Service may request proof that any non-nutritional fertilizer components or additives guaranteed or claimed on the label provide: long-term safety to animals, plants, and the environment; and availability and efficacy. Texas Commercial Fertilizer Rules §65.27 requires that when additives are incorporated in a commercial fertilizer: the fertilizer mixture must be registered in accordance with §63.031 and guaranteed with respect to the kind and percentage of each additive (§63.051 & §63.053); the additive(s) must be determinable by an acceptable laboratory method; and the fertilizer mixture must be labeled to prominently display the purpose of the additive. In addition, it must be shown by scientific data that each additive is present in sufficient quantities to impart a distinctive characteristic to the product.

In response to the increased production and use of nutrient stabilizer additives with Enhanced Efficiency (Fertilizer) (EEF) properties, as defined by the American Association of Plant Food Control Officials (AAPFCO), the Service details the requirements below.

POLICY:

A. Registration of Fertilizer Mixtures that Contain Nutrient Stabilizer Additives

Fertilizer mixtures, except customer-formula fertilizer mixtures, that incorporate a nutrient stabilizer with EEF properties must be registered with the Service. The registration requirement applies to any fertilizer material, mixed fertilizer, or specialty fertilizer



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(§63.001(16) that contains a nutrient stabilizer additive(s).

B. Labeling Fertilizer Mixtures that Contain Nutrient Stabilizer Additives

Commercial fertilizer mixtures, including customer-formula fertilizer, that incorporate nutrient stabilizer additives must state the following for each additive:

- i. Kind of Additive;
- ii. Purpose of the Combined Fertilizer and Nutrient Stabilizer Additive; and
- iii. Quantity of Additive (% by weight).

C. Measurement of Nutrient Stabilizer Additives

Each nutrient stabilizer additive in a fertilizer mixture must have a currently accepted laboratory method of analysis. Companies that wish to register fertilizer mixtures that contain nutrient stabilizer additives with the Service must:

- i. Incorporate products permitted by AAPFCO to claim EEF properties; or
- ii. Provide to the Service scientific data to show that each nutrient stabilizer additive is present in sufficient quantities to impart a distinctive characteristic to the product.

Dr. Timothy J. Herrman State Chemist & Director

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Office of the Texas State Chemist



APPENDIX 1 EXAMPLE OF BAGGED PRODUCT with Nitrogen Stabilizer

Product Name	Green Grow
Grade Statement	21-7-14
Guaranteed Analysis	GUARANTEED ANALYSIS Total Nitrogen (N)
Derived From Statement	Derived from: Potassium Magnesium Sulfate, Ammonium Sulfate, Mono Ammonium Phosphate, Urea, Potash, Boric Acid
Nitrogen Stabilizer Additive Guarantee	NFIXX (Nitrogen Stabilizer) 0.2%
Directions for Use	Information concerning the application rate per acre can be obtained by writing to the guarantor identified on this label and referring to the invoice number shown on the invoice.
Name and Mailing Address of Guarantor	Farm Co-op Hwy 1, Box 7 Centerville, Any State Zip Code
Net Weight or Volume	Net Weight – 25 lb (11.33 kg)

APPENDIX 2 EXAMPLE OF BAGGED PRODUCT with Nitrogen Stabilizer

Product Name	Green Grow
Grade Statement	28-3-10
Guaranteed Analysis	GUARANTEED ANALYSIS Total Nitrogen (N)
Derived From Statement	Derived from: Urea, Diammonium Phosphate, Muriate of Potash, Iron Sucrate
Nitrogen Stabilizer Additive Guarantee	Dicyandiamide (Nitrogen Stabilizer) 1.05%
Directions for Use	Information concerning the application rate per acre can be obtained by writing to the guarantor identified on this label and referring to the invoice number shown on the invoice.
Name and Mailing Address of Guarantor	Farm Co-op Hwy 1, Box 7 Centerville, Any State Zip Code
Net Weight or Volume	Net Weight – 25 lb (11.33 kg)

APPENDIX 3 EXAMPLE OF CUSTOMER FORMULA with Nitrogen Stabilizer

	Farm Co-Op
Customer's Name and Address Date of Sale	Customer: Address: Date:
Grade Statement	GRADE46-0-0
Guaranteed Analysis	GUARANTEED ANALYSIS Total Nitrogen (N)
Derived From Statement	Derived from: Urea
Nitrogen Stabilizer Additive Guarantee	NBPT (Nitrogen Stabilizer) 0.2%
Directions for Use	Information concerning the application rate per acre can be obtained by writing to the guarantor identified on this label and referring to the invoice number shown on the invoice.
Guarantor's Name and Address	Farm Co-Op Hwy 1, Box 7 Centerville, Any State Zip Code Phone Number
Net Weight or Volume	Net Weight – 5500 lbs.

APPENDIX 4 EXAMPLE OF CUSTOMER FORMULA with Nitrogen Stabilizer

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APPENDIX 5 EXAMPLE OF CUSTOMER FORMULA with Nitrogen Stabilizer

	Farm Co-Op
Customer's	Bill To: Ship to:
Name and Address	Address: Address:
Date of Sale	Date: Date:
Grade Statement	GRADE28-0-9
	Description Quantity (lbs.)
	Urea3500
	Ammonium Sulfate1000
	Muriate of Potash1000
	GUARANTEED ANALYSIS
Guaranteed Analysis	Total Nitrogen (N)28%
	Soluble Potash (K2O)9%
	Sulfur (S)
Nitrogen Stabilizer Additive Guarantee	NBPT (Nitrogen Stabilizer) 0.2%
Directions for Use	Information concerning the application rate per acre can be obtained by writing to the guarantor identified on this label and referring to the invoice number shown on the invoice.
Guarantor's Name and	Farm Ca On
Address	Farm Co-Op
	Hwy 1, Box 7
	Centerville, Any State Zip Code Phone Number
	Priorie Number
Net Weight or Volume	Net Weight – 5500 lbs.