

**02 NCAC 48B .0121 APPLICATION FOR REGISTRATION OF FERTILIZERS**

(a) Each application for registration of any fertilizer shall include the:

- (1) net weight;
- (2) brand;
- (3) grade;
- (4) name and address of the person guaranteeing registration; and
- (5) sources from which nitrogen, phosphate, and potash are derived in mixed fertilizers.

(b) Each application for registration of any fertilizer in addition to the information contained in Paragraph (a) of this Rule, shall include a guaranteed analysis showing the percentages of primary plant nutrients and chlorine in the following order and form:

- (1) tobacco fertilizers:
  - (A) total nitrogen (N) X Percent;

[breakdown of nitrogen (N) is optional]

  - (B) available phosphate (P2O5) X Percent;
  - (C) soluble potash (K2O) X Percent;
  - (D) chlorine (maximum) X Percent;
- (2) fertilizer materials:
  - (A) total nitrogen (N) X Percent;
  - (B) available phosphate (P2O5) X Percent;
  - (C) soluble potash (K2O) X Percent;
- (3) specialty fertilizers, manures and fortified mulch:
  - (A) total nitrogen (N) X Percent;
  - (B) available phosphate (P2O5) X Percent;
  - (C) soluble potash (K2O) X Percent;
- (4) organic fertilizers:
  - (A) total nitrogen (N) (see 02 NCAC 48B .0122) X Percent;
  - (B) available phosphate (P2O5) X Percent;
  - (C) soluble potash (K2O) X Percent.

(c) Immediately following the guarantees for primary plant nutrients, the following plant nutrients, if used, shall be listed on the application and guaranteed by percentage of each in elemental form, with the following minimum guarantees:

Element	Minimum Concentration, %
(1) calcium (Ca)	1.0000
(2) magnesium (Mg) (see 02 NCAC 48B .0132)	0.5000
(3) sulfur (S)	1.0000
(4) boron (B)	0.0200
(5) chlorine (Cl)	0.1000
(6) cobalt (Co)	0.0005
(7) copper (Cu)	0.0500
(8) iron (Fe)	0.1000
(9) manganese (Mn) (see 02 NCAC 48B .0132)	0.0500
(10) molybdenum (Mo)	0.0005
(11) nickel (Ni)	0.0010
(12) sodium (Na)	0.1000
(13) zinc (Zn)	0.0500

Sources of these elements and proof of availability shall be provided to the Commissioner upon request.

(d) A person shall not make any guarantee or claim for a secondary or minor plant nutrient not listed in Paragraph (c) of this Rule. "Secondary plant nutrient" means calcium, magnesium, and sulfur. "Minor plant nutrient" means the other elements listed in Paragraph (c) of this Rule, commonly known as "micronutrients".

(e) A person shall express potential acidity or basicity as equivalent pounds per ton of calcium carbonate, if acid forming or nonacid forming potential is guaranteed.

(f) Where no determination of available phosphate for organic phosphates is made, total phosphate shall be guaranteed, except as provided in Paragraph (g) of this Rule.

(g) Where unacidulated mineral phosphates or basic slag is used, both total and available phosphate, as well as degree of fineness, shall be guaranteed.

*History Note:* Authority G.S. 106-660(a); 106-673;  
Eff. January 1, 1985;  
Amended Eff. January 1, 2007; June 1, 1994; January 1, 1992; December 1, 1985.