



LIQUID FERTILIZER MGS-94-05A

**1.0 DESCRIPTION.** This specification covers a commercial grade liquid fertilizer which shall comply with all applicable fertilizer laws of the State of Missouri.

**2.0 GENERAL.**

**2.1** Each of the constituents used in compounding the fertilizer shall have been produced by a process that renders the chemical soluble in water. When constituents are dissolved in water to produce a liquid fertilizer, there shall be no chemical reaction or change in solubility which would cause salting out of any one or more of the constituents.

**2.2** The liquid fertilizer shall be free of dirt and foreign material and shall be so compounded that the fertilizer is capable of storage without deterioration at temperatures as low as 40 F.

**3.0 COMPOSITION.** On analysis the liquid fertilizer shall contain the following:

**3.1 Specification A.**

Nitrogen (N)  
Available Phosphoric Acid ( $P_2O_5$ )  
Potash ( $K_2O$ )

These constituents shall be in a 1:1:1 ratio.

**3.2 Specification B.**

Nitrogen (N) only

**4.0 SAMPLING AND ACCEPTANCE.**

**4.1** Samples will be taken at the source or destination as deemed necessary by the engineer.

**4.2** The supplier shall furnish to the Department representative at destination an official weight ticket and minimum guaranteed plant nutrient analysis on each delivery.

**4.3** Acceptance will be based on the minimum guaranteed plant nutrient analysis and on any tests deemed necessary by the engineer.

**5.0 ORDERING INFORMATION.** The specification material will be set forth in the bid request.