



Rules of
Department of Agriculture
Division 90—Weights and Measures
Chapter 11—Anhydrous Ammonia

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**Title 2—DEPARTMENT OF
AGRICULTURE
Division 90—Weights and Measures
Chapter 11—Anhydrous Ammonia**

2 CSR 90-11.010 ANSI K61.1–1981, Safety Requirements for the Storage and Handling of Anhydrous Ammonia

PURPOSE: This rule sets forth minimum safety requirements for the storage, transportation and handling of anhydrous ammonia.

PUBLISHER'S NOTE: The secretary of state has determined that the publication of the entire text of the material which is incorporated by reference as a portion of this rule would be unduly cumbersome or expensive. Therefore, the material which is so incorporated is on file with the agency who filed this rule, and with the Office of the Secretary of State. Any interested person may view this material at either agency's headquarters or the same will be made available at the Office of the Secretary of State at a cost not to exceed actual cost of copy reproduction. The entire text of the rule is printed here. This note refers only to the incorporated by reference material.

Summary: The American National Standards Institute (ANSI), *Safety Requirements for the Storage and Handling of Anhydrous Ammonia*, publication No. K61.1–1981, is a guideline established for authorities charged with regulating the storage, transportation and handling of anhydrous ammonia. These requirements apply to the design, construction, repair, alteration, location, installation or operation of anhydrous ammonia systems including refrigerated ammonia storage systems. However, these requirements do not apply to ammonia manufacturing plants, refrigeration plants where ammonia is used solely as a refrigerant or ammonia transportation pipelines.

(1) The rule for the Division of Weights and Measures for safety requirements for anhydrous ammonia shall be those guidelines presented in the ANSI K61.1–1981, entitled *Safety Requirements for the Storage and Handling of Anhydrous Ammonia*.

(2) Should any portion of ANSI K61.1–1981 be deemed unacceptable, rules will be promulgated within this chapter denoting and excepting those portions and adopting alternative provisions as deemed necessary by the director of the Department of Agriculture.

(3) Cylinders and other portable containers used in anhydrous ammonia service shall be designed, fabricated, tested, constructed, marked and placarded in accordance with the United States Department of Transportation Hazardous Materials regulations contained in 49 CFR parts 100 to 185, which are herein incorporated by reference, and approved for the storage and transportation of anhydrous ammonia. Cylinder and other portable container valves and other fittings, or hoses attached thereto, used in anhydrous ammonia service, shall be constructed of material resistant to anhydrous ammonia and shall not be constructed of brass, copper, silver, zinc or other material subject to attack by ammonia. Each cylinder utilized for the storage and transportation of anhydrous ammonia shall be labeled, in a conspicuous location, with the words "ANHYDROUS AMMONIA" or "CAUTION: ANHYDROUS AMMONIA" and the UN number 1005 (UN 1005).

AUTHORITY: section 266.355, RSMo 2000. Original rule filed Jan. 15, 1985, effective April 11, 1985. Emergency amendment filed Nov. 17, 2003, effective Nov. 27, 2003, expired May 12, 2004. Amended: Filed Nov. 17, 2003, effective May 30, 2004.*

**Original authority: 226.355, RSMo 1983, amended 1993.*