

1513.0040 SAFETY.

Subpart 1. **Training.** A person required to store, handle, transfer, transport, or otherwise work with ammonia must be trained, in accordance with Code of Federal Regulations, title 29, parts 1900-1910, to understand the properties of ammonia, to become competent in safe operating practices, and to take appropriate actions in the event of a leak or an emergency.

Subp. 2. **Protective gear.** A person making, breaking, or testing an ammonia connection, transferring ammonia, or performing maintenance or repair on an ammonia system under pressure, must wear protective gloves and chemical splash goggles. A full face shield may be worn over the goggles. However, a face shield may not be worn as a substitute for goggles.

Subp. 3. **Permanent storage installations.** Permanent storage installations must have on hand, as a minimum, the equipment listed in items A to F.

A. Two full face gas masks, each with one spare ammonia canister in a readily accessible location for use in ammonia concentrations less than those that pose an IDLH.

B. One pair of protective gauntlet-style gloves of sufficient length to allow for cuffing that are impervious to ammonia.

C. One pair of protective boots impervious to ammonia.

D. One protective slicker or protective pants and jacket, all impervious to ammonia.

E. An easily accessible emergency shower and a plumbed eye wash unit or in lieu of these, at least 150 gallons of clean water in an open top container.

F. Chemical splash goggles or chemical splash goggles with full face shield to be worn over the goggles.

Subp. 4. **Cargo tanks.** A cargo tank transporting ammonia, except an implement of husbandry, must carry the equipment listed in items A to D.

A. For first aid purposes, at least five gallons (20 liters) of clean water in a container designed to provide ready access to the water for flushing any area of the body contacted by ammonia.

B. One pair of protective gauntlet style gloves impervious to ammonia.

C. A full face piece gas mask with an ammonia canister and at least one spare canister.

D. Chemical splash goggles, or chemical splash goggles with a full face shield to be worn over the goggles.

Subp. 5. **Cylinder and DOT portable tank installations.** At ammonia installations comprising cylinders and DOT portable tanks, the employer shall provide ready access to a supply of clean, running water for emergency use, including provision for flushing of the eyes by an employee in the event of contact with ammonia, or a self-contained eye wash unit with clean water.

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