

PRODUCT PROFILE

Aqua Ammonia **General Safety & Handling**



EQUIPMENT

Systems should be all steel construction, free from copper, copper alloy, aluminum, or galvanized pieces. The internal trim of valves, pumps and meters should be specified as all steel.

At normal liquid temperatures, vapor pressures are not high, allowing schd. 40 pipe and fittings to be used.

Each storage tank should be equipped with either a pressure/vacuum relief valve or a vented vapor scrubber to prevent vapor loss and pressure build-up.

TANK & PIPING REPAIR

Before attempting to enter any storage tank certain precautions should be made. Adhere to all confined space entry compliance requirements.

Ammonia vapor can reach an explosive limit in an "empty" tank. Special cleaning procedures should be followed before any welding or cutting is attempted on any tank. Even though the vapor concentration is initially below the explosive limit, heat from cutting or welding may liberate residual ammonia.

MIXING

Because ammonia is such a strong base, and may have vapor pressure, it should not be indiscriminately mixed with other materials, particularly acidic solutions. The resulting reaction can violently evolve large amounts of heat and/or gases. If such mixtures are contemplated without previous experience, technical assistance should be requested from experienced personnel.

SPILLS

Spills should be isolated and confined to prevent discharge into drains, sewers, or waterways. Stay upwind and away from the spill unless wearing appropriate respiratory protection and proper protective clothing. After containment, the spills should be flushed or pumped into appropriate containers for reuse or disposal in accordance with applicable local/state/federal regulations. Loading areas should have containment pads that drain to a holding pond or tank.

WARNING SIGNS

Aqua ammonia (ammonia solution) is a CORROSIVE material, as defined by USDOT, and marking requirements apply to both bulk and non-bulk packages.

Safety warning signs located at valves or load out points are recommended for each storage and transport tank.

Rev. 4/2021

The information on this Product Profile is based on data obtained by our own research and is considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof, or that any such use will not infringe any patent. This information is furnished upon the condition the person receiving it shall make his own tests to determine the suitability thereof for his particular purpose. For latest product specifications, contact our nearest sales office.

Southern California (800) 438-8515 Northern California (800) 438-8515 Phoenix, Arizona (888) 866-2210 Tucson, Arizona (888) 866-2210 Utah/Pacific Northwest (800) 336-3911



Hill Brothers Chemical Co.
(714) 998-8800
www.hillbrothers.com