Anhydrous Ammonia

Fertilizer 82-0-0

Product Description –

Columbia River Nitrogen's Anhydrous Ammonia is a colorless gas shipped under pressure as a liquid. It has a pungent odor that is highly irritating to the mucosal membranes of the eyes and lungs. Contact with the liquid can cause frostbite. It absorbs easily into water to form alkaline ammonium hydroxide solution which is corrosive to bodily tissues.

Properties	SDS#1129
Ammonia (% wt.)	99.5-99.8
Water Content (% wt.)	0.2-0.5
Boiling Point (°F)	-27.4
Freezing Temperature (°F)	-108
Density @ 68°F (lbs/gallon)	5.1
Total Nitrogen (N) 82% Ammoniacal Nitrogen Derived from Anhydrous Ammonia	82

Applications & Uses

Anhydrous Ammonia is used as a high nitrogen source fertilizer.

Anhydrous ammonia can be injected, as a pressurized liquid, into the soil where it immediately evaporates, reacts with moisture in the ground, binds to the soil, and forms ammonium. Since the ammonium is bound to the soil, there is little mobility that can cause nitrogen loss. This allows nitrogen to be available for plants longer. Microbes in the soil will convert the ammonium to nitrate over time, providing another form of nitrogen.

Ammonia fertilizer can also increase the pH levels of soil, which can be beneficial to farmers.

Caution should be taken when using this high nitrogen (82%) fertilizer to avoid ammonia toxicity.

Storage & Handling

Copper, silver, cadmium, zinc, alloys, and other reactive metals must not be used in ammonia systems as they can be rapidly corroded.

Proper grounding procedures to avoid electricity should be followed. Use explosion-proof electrical, ventilating, and lighting equipment.

A release of 100 pounds or more is a reportable quantity (RQ) pursuant to CERCLA Section 311 of the Clean Water Act.

For more information, see the safety data sheet.

Information regarding the contents and levels of metals in this product is available on the internet at http://www.aapfco.org/metals.htm
For detailed specifications, safety data sheets, or application guidance please contact us at: columbiarivernitrogen.com