

UREA AMMONIUM NITRATE SOLUTION

Description

Urea Ammonium Nitrate (UAN) 32% Solution is a nitrogen fertilizer solution composed of urea and ammonium nitrate. A portion of the Nitrogen is available in two forms, the nitrate form (NO_3^-) which is immediately available for plant uptake, and in the form of Ammonium (NH_4^+), which is also assimilated directly by most plants, but, is rapidly oxidized by soil bacteria to form NO_3^- . The rest of the solution is comprised of urea, and is hydrolyzed by soil enzymes to form NH_4^+ , which is subsequently transformed to NO_3^- in most soil conditions. As a result, this solution provides both fast acting and long lasting plant food from its three forms of nitrogen.

Uses

Due to its chemical properties, this product is easily compatible with many other nutrients and agricultural chemicals. It is frequently mixed with solutions containing Phosphorus and Potassium as well as other essential plant nutrients. This solution is well adapted for a variety of application processes, including: soil injections, foliar sprays and irrigation systems.

Handling and Storage

Always conduct a jar test with new tank mixes to verify compatibility.

Store in a cool place out of direct sunlight. Location should be inaccessible to children, pets, domestic animals and/or wildlife.

Spillage must be contained and not permitted to reach waterways. Ammonia vapors may be present.

Urea Ammonium Nitrate contains a corrosion inhibitor to reduce the corrosion rate of carbon steel under normal conditions.

Shipping

Urea Ammonium Nitrate Solution is not classified as a hazardous material by the US Department of Transportation. Shipments are made by rail or tank trucks.



Chemical & Physical Properties

CAS Number	15978-77-5
Specific Gravity @ 60° F (15.5°C)	1.326
pH	6.3 – 7.8
Salt-Out Temperature	32°F (0°C)
Color	Clear to light yellow
Odor	Little to no detectable ammonia odor
Weight per Gallon	11.06 lbs/gal (1.325 kg/L)
Gallons per Ton	180.8 (0.754 L/kg)
Corrosion Inhibitor	150-250 ppm

Typical Analysis

Total Nitrogen (N)	32.00%
Ammoniacal Nitrogen	8.00%
Nitrate Nitrogen	8.00%
Urea Nitrogen	16.00%

The data presented herein are believed to be accurate but are in no way guaranteed. TradeMark Nitrogen Corp. makes no warranties, express or implied, that any of the above data is fit for any particular use and expressly disclaims all oral warranties of any kind.

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