

50% UREA SOLUTION

Description

50% Urea Solution, $\text{CO}(\text{NH}_2)_2$, is a clear aqueous solution of urea. This product can be used as a source of Nitrogen (N) for a variety of cropping systems and as a liquid feed supplement for ruminant animals. Its primary advantages over conventional granular urea are labor savings and lower biuret content. Common fertilizer applications are foliar sprays and fertigation to the root zone.

Handling & Storage

Store in a cool place out of direct sunlight. Location should be inaccessible to children, pets, domestic animals and/or wildlife. Due to its corrosive properties stainless steel or corrosion resistant materials should be used. Always conduct a jar test with new tank mixes to verify compatibility.

Function of Nitrogen in Plants

- Mainly involved in photosynthesis
- Essential component of chlorophyll
- Promotes plant fruit set and vigor

Symptoms of Nitrogen Deficiency

- Yellowing of leaves (oldest first)
- Poor/Stunted growth/reduced yield
- Overall less foliage canopy

Availability

Bulk or IBCs



Chemical & Physical Properties

Chemical Formula	$\text{CO}(\text{NH}_2)_2$
CAS Number	57-13-6
pH	6.5 - 8.5
Specific Gravity @ 68°F (17.8°C)	1.140
Salt-Out Temperature	62°F (20.0°C)
Color	Colorless
Odor	Slight acrid odor
Weight per Gallon @ 60F (15.5°C)	13.3 lbs./gal (1.50 kg/L)

Typical Analysis

Total Nitrogen (N)	23.0%
23.0% Nitrate Nitrogen	
Biuret, wt %	< 0.25%
Chloride	< 10 ppm

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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