

UREA

Technical Information



Ultra Low Biuret Urea (ULBU)

Product Description

UREA ULTRA LOW BIURET (ULBU) is a white, solid, cylindrical pellet. It is manufactured by compressing pure urea crystals in a pelletizing process which avoids the melting and heating of the urea where the majority of biuret is formed. It is an organic amide molecule containing 46% nitrogen in the form of amine groups. Urea is infinitely soluble in water and is a benign and safe chemical to handle. This product contains NO formaldehyde.

Application Recommendations

- The ULTRA LOW BIURET UREA is used specifically as a fertilizer for leaf crops that are sensitive to biuret. UREA prill may be used as a slow release fertilizer. It must be decomposed by microorganisms before it can be assimilated by plants.
- **ALWAYS** exercise caution when using this chemical as fertilizer because it has the highest nitrogen content of any solid.

Transportation, Storage and Handling

- UREA will decompose into ammonia and carbon dioxide at 275°F.
- **ALWAYS** wash vessels containing UREA thoroughly before attempting repairs requiring welding.
- **NEVER** allow UREA to come into contact with nitric acid. The resulting chemical is unstable and dangerous.

Hazardous Shipping Description

- There are no DOT restrictions, other than weight, to transport UREA prill.
- A large spill of UREA should be recovered dry. All attempts should be made to keep it from dissolving into a vegetated drainage. The high nitrogen content (46%) may kill foliage if not diluted. Dissolved UREA can be handled, if necessary, by a municipal water treatment facility.
- Consult MSDS #1132 for more specific and comprehensive information about chemical hazards.

Properties

MSDS
#1132

Total Nitrogen Analysis (guaranteed)	46.0 minimum by weight
Water	0.2% by weight
Biuret (guaranteed)	0.1% by weight maximum
Formaldehyde	0.0%
pH	8.5 – 9.5 by weight
Bulk Density	46.5 pounds/cubic foot
Physical form	1/8 – 1/4" diameter cylindrical pellets
Color	White
Fertilizer Nutrient designation	46-0-0

Typical Size Distribution

Tyler Mesh Analysis	-2+4	-4+6	-6+8	-8
Average % retained	91%	7.5%	1%	0.5%
Cumulative %	91%	98.5%	99.5%	100%

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