UREA

Technical Information

Reduced Biuret Urea (RBU)

Product Description

The REDUCED BIURET UREA prill is a small diameter, spherical white solid. It is an organic molecule called an amide containing 46% nitrogen in the form of amine groups. This UREA is specially manufactured by quickly melting UREA crystal and prilling. Unlike traditional prilling, the short heating step from crystal to prill results in a very low BIURET formation. UREA is infinitely soluble in water and is a benign and safe chemical to handle.

Application Recommendations

- The REDUCED 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%) can kill foliage if not diluted. Dissolved UREA can be handled, if neccessary, by a municipal water treatment facility.
- Consult MSDS #1132 for more specific and comprehensive information about chemical hazards.

Properties

MSDS #1132

Total Nitrogen % by weight (guaranteed)	46.0 minimum
Water % by weight	0.2
Biuret % by weight maximum (guaranteed)	0.4
pH by weight	8.5 – 9.5
Bulk Density lbs/cubic foot	46
Fertilizer Nutrient designation	46 - 0 - 0

Typical Size Distribution*

Screen	-6+8	-8+10	-10+12	-12+14	-14
Average % Retained	6	55	37	1	1
Cumulative %	6	61	98	99	100

*Tyler Mesh Screen Analysis

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