

TECHNICAL DATA SHEET



UREA

Prill 46-0-0

Properties

SDS
#1132

Total Nitrogen Analysis % minimum (guaranteed)	46.0
Water % by weight	0.2
Biuret % by weight	0.4 - 0.5
pH % by weight	8.5 – 9.5
Bulk Density lbs/cubic foot	46
Fertilizer Nutrient Designation	46-0-0

Typical Size Distribution*

Tyler Mesh Analysis	-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

Hazardous Shipping Description

- There are no specific DOT restrictions, other than weight, to transport UREA.
- 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 necessary, by a municipal water treatment facility.
- Consult MSDS #1132 for more specific and comprehensive information about chemical hazards.

PRODUCT DESCRIPTION

UREA prill is a small diameter, spherical white solid. It is an organic amide molecule containing 46% nitrogen in the form of amine groups. UREA is infinitely soluble in water and is suitable for use as an agricultural fertilizer as well as for industrial applications which require a high quality nitrogen source. It is not a poison to mammals and birds and is a benign and safe chemical to handle.

APPLICATION RECOMMENDATIONS

- UREA prill is used as a slow release fertilizer. It must be decomposed by micro-organisms 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 can be purchased in bulk quantities of 25-35 tons as well as in 50 pound and 1 ton bags.
- UREA will decompose into ammonia and carbon dioxide at 275°F.
- **ALWAYS** wash vessels containing UREA thoroughly before attempting repairs requiring welding.
- UREA must never be allowed to come into contact with nitric acid. The resulting chemical is unstable and dangerous.

ADDITIONAL INFORMATION – Visit dynonobel.com for Brochures and Case Studies related to this product.

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