

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 SDS #1132 for more specific and comprehensive information about chemical hazards.

Properties

SDS
#1134

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%

Product Disclaimer Dyno Nobel Inc. and its subsidiaries disclaim any warranties with respect to this product, the safety or suitability thereof, or the results to be obtained, whether express or implied, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND/OR OTHER WARRANTY. Buyers and users assume all risk, responsibility and liability whatsoever from any and all injuries (including death), losses, or damages to persons or property arising from the use of this product. Under no circumstances shall Dyno Nobel Inc. or any of its subsidiaries be liable for special, consequential or incidental damages or for anticipated loss of profits.

NSH-29-08-18-15

Dyno Nobel Inc.

2795 East Cottonwood Parkway, Suite 500, Salt Lake City, Utah 84121 USA
Phone 800-732-7534 Fax 801-328-6452 Web www.dynonobel.com

DYNO
Dyno Nobel

Groundbreaking Performance