UREA

Prill 46–0–0

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 and forestry 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 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 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.

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*

<table>
<thead>
<tr>
<th>Tyler Mesh Analysis</th>
<th>-6+8</th>
<th>-8+10</th>
<th>-10+12</th>
<th>-12+14</th>
<th>-14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average % Retained</td>
<td>6</td>
<td>55</td>
<td>37</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Cumulative %</td>
<td>6</td>
<td>61</td>
<td>98</td>
<td>99</td>
<td>100</td>
</tr>
</tbody>
</table>

*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 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.

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