

# TECHNICAL DATA SHEET



## UREA LIQUOR

### 70% Aqueous Cattle Feed Supplement

#### Properties

SDS  
#1020

UREA % by weight	70.0 - 70.5
Water % by weight maximum	29.5 - 30.0
Biuret % by weight maximum	.5
Free Ammonia % by weight	.5
pH	6.5 - 7.5
Salt-out Temperature (open vessel)	135°F – 137°F
Storage Temperature	40 to 80°F
Weight @ 68°F	9.1 lbs/gallon

#### Hazardous Shipping Description

- The transport of UREA LIQUOR solution is shipped hot in transports that do not have hazard warning placards.
- There are no DOT restrictions, other than weight, to transport UREA solutions. It may have a "HOT" label on the trailer to advise of the elevated temperature of the liquor.
- Consult MSDS #1020 for more specific and comprehensive information about chemical hazards.

#### PRODUCT DESCRIPTION

UREA LIQUOR solution is created by dissolution of the pure amide directly into clean condensate so there are no ions of any metals present. It is a clear, colorless solution with a slight ammonia odor.

#### APPLICATION RECOMMENDATIONS

- UREA LIQUOR is added to cattle feed to boost the protein content. UREA LIQUOR is a nutrient only to animals with rumens that possess the urease enzyme which allows the metabolism of the chemical.
- Consult your Dyno Nobel representative for additional information.

#### TRANSPORTATION, STORAGE AND HANDLING

- Hot concentrated UREA LIQUOR solution poses a moderate health hazard to the handler. If tissue is contacted with this hot solution it can cause second degree burns.
- **ALWAYS** wear liquid impervious clothing, gloves and boots. **ALWAYS** protect eyes and face with shield when loading.
- UREA will decompose into ammonia, carbon dioxide and nitric acid at 275°F.
- **ALWAYS** wash vessels containing UREA thoroughly before attempting repairs requiring welding.
- Should a large spill of UREA LIQUOR solution occur, it should be recovered dry.
- **ALWAYS** restrict it from the drainage. The high nitrogen content (46%) may kill foliage if not diluted.
- UREA can be handled by the municipal water treatment facility if spilled in a municipality.
- **NEVER** allow dried UREA solution to come into contact with nitric acid. The resulting chemical is unstable and dangerous.

**ADDITIONAL INFORMATION** – Visit [dynonobel.com](http://dynonobel.com) for Brochures and Case Studies related to this product.

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