



RXSOL

CHEMO PHARMA INTERNATIONAL

Technical Data Sheet (TDS)

RXSOL-25-1920-250

Urea Solution Standard

Description :

Liquid Urea is a crystal clear 30% - 50% aqueous solution of urea. Its main advantage over conventional granular urea is labor savings and lower biuret content.

Usage and Application :

- It is used in NOx reduction and as a nutrient component in organic waste water treatment plants.
- In the manufacture of liquid feed supplement for ruminant animals
- In plywood and coreboard adhesives
- Textile processing and coatings
- In some paper coatings.

Urea is also consumed in animal feeds, other chemical manufacturing, as an alternative to rock salt for de-icing, as an effluent treatment plant or fermentation nutrient and is growing in diesel emissions control.

Chemical & Physical Properties

Chemical Formula	CO(NH ₂) ₂
CAS Number	57-13-6
Molecular Weight	60.056
Specific Gravity	1.140
pH	6.5 - 8.5
Salt-Out Temp	62°F (18°C)
Colour	Clear Liquid
Odor	Slight ammonia smell

Typical Analysis :

Urea 23% Nitrogen	50%
Turbidity	5 ppm
pH	8.5 Max
Ammonia	0.03%
Biuret	< 0.25%
Ash	35 ppm

Iron	2 ppm
Chloride	10 ppm
Color - Max	0 (APHA)
Alkalinity - wt (NH3) Max	0.05%

Handling : Avoid contact with skin, eyes and clothing.

Storage : Keep storage tanks and containers closed and contents protected from dust, dirt, and moisture. Clean storage tanks on a regular schedule based on inspection and experience. Have storage tanks, containers, and transfer systems properly labeled for contents. Have procedures for determining product quantity in storage tanks and for accepting deliveries. Use tanks, transfer lines, pumps valves and process instrumentation designed for this material using approved materials of construction. Some materials commonly used are stainless steel, some plastics, and FRP. Mild steel, iron and nonferrous metals will be damaged by corrosion. Consult engineers if needed.

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