



## Urea (46% Nitrogen Fertilizer)

Chemical Formula:  $\text{CO}(\text{NH}_2)_2$  | HS Code: 31021000

### Product Overview

Urea is the most widely used nitrogen fertilizer in global agriculture and also a key industrial raw material in the production of resins, adhesives, and other nitrogen-based compounds.

As a fertilizer, Urea provides 46% nitrogen, the highest concentration among solid nitrogenous fertilizers. It is highly efficient, cost-effective, and suitable for a wide range of crops and soil types.

### Key Benefits

- Contains 46% Nitrogen (N) – highest among solid fertilizers.
- Fast-acting and completely water soluble.
- Promotes lush green growth and overall plant vigor.
- Non-corrosive and safe for blending or storage.
- Versatile industrial use in multiple chemical applications.

### Typical Specifications

Parameter	Unit	Specification
Appearance		White, Free-Flowing Granules
Nitrogen (N)	%	46.0 min
Moisture	%	0.5 max
Biuret	%	1.5 max
Particle Size (1–2.8 mm)		90 min
pH (10% Solution)	%	7.0–8.0

### Packaging

- 25 Kg / 50 Kg HDPE Bags
- Bulk & jumbo bag options available on request.

### Storage & Handling

- Store in a cool, dry, and well-ventilated area.
- Protect from moisture and direct sunlight.
- Keep bags tightly sealed when not in use.

### Safety Information

- Non-toxic and non-flammable.
- Avoid inhalation of dust and contact with eyes.
- Refer to the Safety Data Sheet (SDS) for more information.



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### Dual Application

#### As a Fertilizer

Urea supports **vigorous vegetative growth**, enhances **chlorophyll synthesis**, and improves **crop yield and quality**.

- Can be applied to soil or used as a **foliar spray**.
- Ideal for **top dressing** or **basal application**.
- Compatible with other fertilizers for balanced nutrition.

#### As a Raw Material

Urea serves as a base chemical for manufacturing **urea-formaldehyde resins, melamine, adhesives, and feed supplements**, as well as for blending **NPK fertilizers** and other agrochemical formulations.