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Urea Overview

Urea, $(\text{NH}_2)_2\text{CO}$, is a colorless organic chemical compound also known by the International Nonproprietary Name (rINN) **carbamide**, as established by the World Health Organization. It is highly soluble in water and has a pKa close to zero. **Urea** is essentially the waste produced when the body metabolizes protein. It is not only produced by humans, but also by many other mammals, as well as amphibians and some fish. **Urea** was the first natural compound to be artificially synthesized using inorganic compounds — a scientific breakthrough.

The primary raw material used to manufacture **Urea** is natural gas, which ties the costs directly to gas prices. Consequently, new plants are only being built in areas with large natural gas reserves where prices are lower. Finished product is transported around the globe in large shipments of 30,000 metric tons. The market price for **Urea** is directly related to the world price of natural gas and the demand for agricultural products. Prices can be very volatile, and at times, unpredictable. TCC is positioned to know the world markets and keep your prices competitive.

Urea is a raw material used in the manufacture of many chemicals, such as various plastics, **Urea**-formaldehyde resins and adhesives. It is also essential for making feedstock, glue, fertilizer, commercial products, and in resin production. It is widely used in many developing parts of the world and is popular on international trading markets due to its cheap production and transportation costs.

Over 90 percent of the world's production of the substance is used for fertilizer-related products. When used in this way, it usually takes the form of granules, prills, or crystals. Farmers manually distribute the substance or it is scattered in the appropriate form with the aid of farming equipment. **Urea** is considered an effective feed, since it contains nitrogen, which can aid animal growth. The relatively cheap price of products made with the substance also makes feed a popular choice by many farmers.