Anticaking agents are tailor made product based on specific process requirements over a wide span of fertilizers. Bogdány Petrol has the designs and manufacturing ability to offer a range of anticaking agents for use in the production of fertilizers. These include specially formulated anticaking agents for NPK, ammonium nitrate and urea based fertilizers. Most of fertilizers have tendency to form lumps or agglomerates (caking) during longer storage. The mechanism of caking in fertilizers is often attributed to the formation of salt bridges and/or capillarity adhesion. NIRAL® anticaking agents avoid caking, reduce dusting, moisture absorption and nitrogen loss in fertilizers.

Anticaking Agents for Fertilizers

Applying NIRAL® assures You a balanced scattering and regulated decomposition of fertilizers.

NIRAL® Anticaking Agents

PROBLEMS AT FERTILIZER APPLICATION:

- Formation of lumps and powder
- Difficulty of uniform application
- Humidity infiltration
- Early decomposition

NIRAL Anticaking Agent forms a coating on surface of granulates or prills and avoids sticking together. It controls humidity infiltration. The wax based NIRAL anticaking agent is applicable with spraying technology.

Granular fertilizer has a very beneficial effect on plant growth, by regulated release of nutrients, by avoiding washing away of fertilizer salts, and by making granule or prill applications uniform.

Poor storage conditions and long storage without conditioning result in formation of lumps and powder thereby the benefits of granulation/prilling are largely lost by non uniform application, washing away of powdery fertilizer, and also making mechanical application of fertilizer impossible.

Prevention of such caking of fertilizer and making the fertilizer retain its customer values, are achieved by providing a uniform coating of cationic/anionic complex forming chemical formulations, in the final steps of manufacturing process of fertilizer.