

Warehousing and storing regulation concerning Genezis solid nitrogenous fertilizers

The Regulation has to be observed in the interest of retaining the original quality of the fertilizer and its free flowing capability, in order to prevent the deterioration of the quality.

The following regulation is generally effective for all the GENEZIS solid nitrogenous fertilisers.

General provisions

- It is strictly forbidden to smoke and to use naked flame in the fertilizer storage area!
- It is strictly forbidden to store ammonium-nitrate fertilizers in bulk!
- It is forbidden to store fertilizers in bulk under the open air!
- Unauthorized persons may not enter the fertilizer warehouse!
- The fertilizer has to be kept far away from water flows and sewage openings!
- Fertilizers may not be contaminated and mixed with the following materials:
 - acids, alkalis (*e.g.* hydrochloric acid, sulphuric acid, lime, cement)
 - metal powders, metal compounds (copper, zinc, chrome, nickel, cobalt)
 - chlorides
 - organic and flammable, combustible materials
 - fuel, oil, grease, organic solvents, paints, pesticides
 - agricultural produces, sowing seeds, hay, straw
 - wood, sawing dust, paper, rags
 - other materials that are not compatible with the stored fertilizers
- It is forbidden to store fertilizers in the vicinity of the potential sources of fire and explosion (*e.g.* in the vicinity of oil storing units, PB gas bottles, gas pipelines, electric-lines, and -connections)!

Provisions concerning indoor storage (in warehouse)

- Closed, safe building made from hardy or non-combustible materials (*e.g.* concrete, brick)
- Protected from the weather, interior temperature between 5-30 °C
- Dry, dust-free and contamination-free
- Underlay of dry, smooth surface
- Well-ventilating
- In the case of fertilizer in bulk the doors have to be kept closed all the time!
- It is forbidden to open the doors, if the humidity of the air outside is higher than the critical humidity!
Critical humidity contents at 20 °C: prilled CAN and Ammonium Nitrate: 55 RH%, granulated CAN: 62 RH %, Urea: 74 RH %.
The critical humidity value increases with the decreasing of the temperature.
- The fertilizer may not be exposed to the direct radiation of the sun, it has to be kept far away from hot objects and surfaces, its temperature may not be increased anywhere above 32 °C, local overheating has to be prevented.
- Water may not enter the warehouse in any form.
- Loading has to be avoided in the case of wet, foggy weather.

Provisions concerning outdoors storage (under free air, under lean roof)

- It is forbidden to store fertilizer in bulk outdoors.
- Fertilizers have to be protected from the impacts of the weather.
- Storing ammonium-nitrate containing fertilisers (ammonium nitrate, CAN) outdoors even in packed form is not allowed during the summer period (at least from the beginning of May until the end of September, but even in other periods it is not allowed, if the outdoor temperature and due to the radiation of the sun the surface temperature of the product exceeds 32 °C). It has to be taken into consideration that covering with foil does not prevent the increasing of the temperature of the fertilizers above 32 °C!
- In order to prevent the entry of moisture and other contaminants the fertilizer bags have to be covered with appropriately fixed, water impermeable foil of light colour (it is forbidden to cover it with black one!)!
- To storage space
 - has to have good water draining, has to be dry
 - has to be smooth, and free of pot-holes
 - has to be shadowy.
- If the storage space is not a smooth, pot-hole free area, the bags have to be placed on pallets!