Label/Package leaflet

# ZENFERT 24 N

**N 24**

EU FERTILISING PRODUCT

**Manufacturer:** Lovochemie a.s., Terezínská 57, Lovosice, 410 02, Czech Republic
**Distributor:**
**Type designation:** PFC 1(C)(I)(a)(i) Straight solid inorganic macronutrient fertiliser

**Chemical and Physical Properties:**

| Feature | Value |
|---|---|
| Total nitrogen as N in wt % | 24 |
| Nitrate nitrogen as N in wt % | 12 |
| Ammonium nitrogen as N in wt % | 12 |
| Particles 2 – 6.3 mm in wt % | min. 90 |
| Particles below 1 mm in wt % | max. 3 |
| Particles over 10 mm in wt % | 0 |

The fertiliser has a light greenish colour.

**Contaminant content**: the fertiliser meets the contaminant content limits for the type of fertiliser according to Regulation (EU) No. 2019/1009.

**Usage:**
ZENFERT 24 N is a surface - treated granular nitrogen fertiliser with a significant content of finely ground zeolite, which gives the fertiliser unique properties. It is a reliable universal nitrogen fertiliser, with a balanced ratio of nitrate and ammonium nitrogen, which can be used in almost all crops. The fertiliser can be applied before the crop establishment and for additional fertilisation during the entire growth.
Zeolite has a positive effect on the physical - chemical properties of soils, especially after its prolonged and repeated use. The mineral zeolite remains in the soil after the fertiliser is applied, where it:
- binds water and gradually releases it for plants, thus improving water management in all areas during periods of uneven rainfall
- becomes a component of the soil sorption complex, and thus increases the sorption capacity of soils (especially the light soils);
- increases the utilisation of phosphorus and sulphur from soil and applied fertilisers;
- binds risk elements (Cd, Pb, Cr, etc.), thereby limiting their uptake by plants, especially in conditions of increased mobility of risk elements (e.g. in acid soils);
- binds ammonium nitrogen and slows down its conversion by nitrification The fertiliser is therefore also suitable for autumn fertilisation, as it reduces nitrogen losses to the atmosphere and groundwater.

| **Benefits of repeated application of zeolite in ZENFERT 24 N fertiliser** |
|---|
| Regulates the water regime in the soil profile and increases the efficiency of water use by plants |
| It has a positive effect on the utilisation of nutrients from fertilisers, especially in periods/areas with an uneven distribution of precipitation |
| It becomes a component of the soil sorption complex, thereby increasing the sorption capacity of soils |
| It binds nutrients, which are gradually released for the needs of plants during the entire growing season |
| It reduces the loss of the ammonium form of nitrogen to groundwater and the atmosphere and increases the utilisation of nitrogen by plants |
| It binds heavy metals (Cd, Pb, Cr, etc.) and limits their uptake by plants |
| It does not acidify soils, it increases their buffering ability |
| Contributes to improving soil structure |
| Positively influences crop growth and development, increases yield and improves production quality |

**Application:**

| Crop | Dose of N in kg/ha |
|---|---|
| Oil crops (spring) | 250 – 400 |
| Grain (spring) | 250 – 350 |

| | |
|---|---|
| Winter crops – autumn | 150 – 250 |
| Potatoes, sugar beet | 250 – 400 |
| Brassica vegetables | 150 – 200 |
| Bulb vegetables and legumes | 100 – 200 |
| Orchards | 200 – 350 |
| Vineyards | 150 – 300 |
| Shrub fruit | 150 – 200 |

These doses set out the approximate amount of fertiliser recommended for application for a given crop. Specific doses and total amounts must be specified according to local conditions and applicable legislation. The use of soil and plant analyses or other diagnostic tools is very relevant.

**Labelling according to Regulation (EC) No. 1272/2008 (CLP):**
Aquatic Chronic 3, H412
**Hazard symbols:**
Not applied.
**Signal word:**
Not applied.
**Standard hazard statements:**
H412 – Harmful to aquatic life with long lasting effects.
**Rules for safe handling:**
P262 – Do not get in eyes, on skin, or on clothing.
P273 – Avoid release to the environment.
P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
P314 – Get medical advice/attention if you feel unwell.
P501 – Dispose of contents/container in accordance with local regulations.

**Hazardous substance**: ammonium nitrate $NH_4$ ($NO_3$), C 16 – 18 alkylamines
**A list of all ingredients constituting more than 5 % by weight of the fertiliser:**
Ammonium nitrate CAS 6484-52-2 (CMC 1), zeolite CAS 1318-02-1 (CMC 1)

**The acquisition, import, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions and significant disappearances and thefts should be reported to the relevant National Contact Point.**

**The fertiliser falls within the scope of the European Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. The fertiliser meets all the requirements of this Directive, handling of this fertiliser is safe according to the requirements of this legislation and is not subject to any special requirements.**

**ZENFERT 24 N was tested for explosion resistance in an accredited laboratory at the time of being placed on the market. As a result of the testing, the fertiliser is explosion - proof, more detailed information, including photo documentation, is available on request from the fertiliser manufacturer.**

The fertiliser falls within the scope of Council Directive 91/676/EEC on the protection of waters against pollution caused by nitrates from agricultural sources. The fertiliser contains nitrogen and can therefore be used on a limited basis in vulnerable areas. The fertiliser can be used without restriction in habitats outside the endangered areas.

Additional or detailed information with regard to safe handling and environmental impact, including first aid instructions, is given in the safety data sheet for the fertiliser in question.

**Transport and storage:**
Fertiliser intended for direct consumption shall be stored in bulk in piles up to a maximum height of 6 m, spaced at least 1 m apart, or in separate boxes. Both stockpiles and boxes must be labelled with the name of the fertiliser. It is recommended to permanently cover the fertiliser for long-term storage with a tarpaulin or store it packaged. Fertiliser packed in big bags is stored stacked up to a maximum of 2 big bags. When fertiliser bags are stored on pallets, the pallets can be stored in a maximum of two layers. Fertiliser must be stored on a floor with an impermeable surface. It must be protected from direct sunlight and radiant heat, otherwise the granules are destroyed and the fertiliser hardens. It is stored separately from other fertilisers and it must be protected against contamination. The storage area must be protected against moisture penetration.

**Weight:** 25, 500, 1000, in bulk
**Shelf life:** 24 months when stored in the original undamaged packaging and under storage conditions
**Date of manufacture:**