

Trade name

Fertilizer NPK 21-10-10

1. Identification of the substance / preparation and of the company / undertaking

Product name: **Fertilizer NPK 21-10-10**

Supplier :
 Distributor : Agrium Europe S.A.
 Avenue Louise 326
 Bte 36
 B – 1050
 BRUXELLES – Belgique
 Tel: +32 (0)2 646 70 00 Fax : +32 (0)2 646 68 60

Use : Mineral fertilizer for agriculture

Emergency contact : National Chemical Emergency Center
 Abington
 Oxfordshire – United Kingdom
 Tel : +44.208.762.8322

2. Composition/information on ingredients

Chemical designation of preparation
 Complex mixture of mineral constituents

Ingredients leading to classification :

Contains: Ammonium nitrate
 No CAS : 6448-52-2 No EINECS : 229-347-8
 Labelling : O - Oxidizer ; R 8-9
 Content : 24%

Contains: Potassium nitrate
 No CAS : 7757-79-1 No EINECS : 231-818-8
 Labelling : O - Oxidizer ; R 8
 Content : 23%

Ingredients leading to classification or present under classification thresholds:

Contains: Ammonium chloride
 No CAS : 12125-02-9 No EC : 235-186-4
 Labelling : Xn=Harmful; R 22
 Xi – Irritant ; R 36
 Content : 17%

Salts contained in the mixture mainly contain the following ions

Nitrate : NO₃⁻ Ammonium : NH₄⁺
 Chloride : Cl⁻ Potassium : K⁺
 Phosphate : H₂PO₄⁻ Calcium : Ca⁺⁺

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3. Hazards identification

- European classification : This preparation is regulated according to 67/548/EEC and 1999/45/EC European Directives, their adaptations and annexes.
- Hazard(s) EC : Oxidizer.
- For human : Prolonged contact with the skin or eyes can cause irritation.
In case of large inhalation product dust can cause irritation of the respiratory tracts.
In the event of fire, the product can be decomposed and release toxic gases.
- For the environment : Large scale or repeated discharge of the product into stagnant water can cause algae to proliferate.

4. First aid measures

- Inhalation : If the dust is inhaled, take the person out into the fresh air.
- Skin contact : Wash with plenty of soap and water.
- Eye contact : Thoroughly rinse with water keeping the eyes wide open Consult an eye specialist if irritation appears
- Swallowing : If the person is conscious, rinse the mouth, make him drink several glasses of water, do not try to induce vomiting. Seek medical advice if the person is ill.

5. Fire-fighting measures

- Appropriate extinction methods: Sprayed water, or in large quantity.
- Not advised : Foams with organic emulsifier, sand, CO₂
- Particular risks in the event of fire : Non combustible by decomposition, may produce combustion of organic products
Emission of harmful or toxic gases, See chapter 10
- Special maintenance equipment: Wearing individual breathing apparatus is strongly recommended.
- Attached information : Avoid pouring fire water down the drains.

6. Accidental release measures

- Individual precautions for spillage / leakage : If possible avoid contact with eyes.
Personnel precautions, see chapter 8.
- Cleaning up / absorption: Scrape up the product with a shovel and put it in a container, it can always be used if the product is not contaminated Forward for disposal.
Clean up affected area with plenty of water.
- Environmental protection precautions : Do not discharge the recovered product as is into the Environment, take steps to disperse it.

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7. Handling and storage

Handling: No special measures for handling in accordance with the instructions for use. Avoid the generation of dusts.
Wash apparatus after use.

Storage: Store containers tightly closed in a cool place, in a well-ventilated place. Avoid all contamination by combustible materials.
The product in bulk must be covered because of moisture.

Recommended packaging materials: Plastic material (polypropylene or polyethylene).

8. Exposure controls/personal protection

Specific control parameters : Dust of product: VME 10 mg/m³

Technical measures : Ventilation of the work place.

Individual protection equipment: Respiratory protection: Possibly protective mask
Handling protection : Gloves
Eye protection : Security eyeglasses

Work hygiene: Wash your hands after work. Do not drink, eat or smoke at the work site.

9. Physical and chemical properties

Form: Solid pellets

Color : Rose

Odour : Odourless

pH value : ≥ 5 (solution at 10%)

Stage changes : Melting point/range approximately 170°C
Boiling point : undetermined

Flash point : Not applicable

Ignition temperature : Not applicable

Explosive limits : Lower undetermined
Upper : undetermined

Density (kg/dm³) : 0,9 - 1,0 at 20°C

Water solubility : Soluble

Log P(o/w): Undetermined

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10. Stability and reactivity

Stability :	The product is stable under normal storage conditions of use.
Conditions to avoid :	None when applied and handled in accordance with conditions for use Avoid pressurization and rise in temperature.
Incompatible materials:	Alkaline and strong acids, reducing agents or catalysts (metallic powder, copper, zinc, and their alloys).
Hazardous decomposition products :	At high temperatures: (> 250°C) : Possible formation of NO(x), PO(x), HCl and NH ₃ . Possible formation of NH ₃ by contact with highly alkaline products
Further data :	The mixture is slightly hygroscopic

11. Toxicological information

Acute toxicity :	Of the ingredient : Ammonium nitrate LD50 by the mouth (rat) : 2500 – 3000 mg/kg (OCDE tests)
Long term toxicity :	None of the main components is recorded on the IARC carcinogenic products lists.
Toxicological information :	If the dust is inhaled: Irritation of the respiratory tracts, cough In case of prolonged contact with skin: Possible irritation. After eye contact: Possible irritation. After ingestion: Possible pain in the oesophagus and stomach.

12. Ecological information

Formulation data

Mobility :

Nitrates, phosphates, chlorides, ammonium and potassium ions are absorbed by soil.

Soluble chlorides and nitrates not absorbed change to aqueous phase

Degradability :

The mixture is easily degradable by plants .

Bio accumulation :

Nothing known for ground and water organisms

Ecotoxicological effects:

The mixture is hardly toxic for water life.

Large discharge of nitrates and phosphates into stagnant water can cause eutrophication.

Other information about ecology :

There is no risk of any ecological problems when appropriately handled and used.

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13. Disposal considerations

Product disposal :
Using the product correctly should not generate waste.

Packaging Disposal :
Disposal by incinerating or upgrading the material by recycling after disposing of product residue by washing with water.

14. Transport information

Shipping regulations :	ADR/RID/ADNR	IMDG/OMI	IATA/ICAO
Class :	PRODUCT NOT SUBJECT TO SHIPMENT REQUIREMENTS		
UN-No.:			
Packaging group:			
Transport labelling :			
Additional information			

15. Regulatory information

Labelling in accordance with EC directives and adapted versions of them: This preparation is concerned by European laws, it is labelled according to 99/45/EC Directive and rules in force.

Symbol : O - Oxidizer ;

R-Phrases : R8 Contact with combustible material may cause fire.

S-Phrases : S15 Keep away from heat.

Its main constituents are repeated in the European EINECS substances inventory.

Regulation according to EC fertilizer directives

Directive 76/116/EC and their appendices.: obligatory information for packaging.

Directive 87/94/EC : resistances to the detonation

Directives 82/501/EC, 87/216/EC, 88/610/EC : Main hazard, SEVESO

16. Other information

Regulatory phrases mentioned into chapters 2 et 3 :

R8 - Contact with combustible material may cause fire.

R9 - Explosive when mixed with combustible material.

R22 - Harmful if swallowed.

R36 - Irritating to eyes.

Origin :

This sheet was prepared on the basis of information provided and updated by the distributor.

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This sheet rounds off the technical instructions but does not replace them. The information given above is based on the present state of our knowledge and experience relating to the product involved at the time of updating. It is provided in good faith.

The attention of users moreover is drawn to possible risks encountered if this product is used for purposes other than those for which it was designed.

Under no circumstances does this sheet release users from knowing and applying all regulations governing their businesses.