

Trade name

Fertilizer NPK 16-16-16

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

Product name: **Compound Fertilizer NPK 16-16-16**

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 agricultural fertilizer.

Emergency contact:

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

2. Hazards identification

European classification: This preparation is not governed by European directives 67/548/CE and 1999/45/CE, their adapted versions and their appendices.

Hazard(s) EC: None.

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 case of fire, the product can breakdown at a high temperature releasing toxic gases.

For the environment:

Large scale or repeated discharge of the product into stagnant water can cause algae to proliferate.

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3. 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: 40%

Salts contained in the mixture mainly contain the following ions:
Nitrate: NO_3^- Ammonium: NH_4^+ Calcium: Ca^{2+}
Chloride: Cl^- Potassium: K^+
Phosphate: HPO_4^{2-} - H_2PO_4^-

4. First aid measures

Inhalation: If the dust is inhaled, take the person out into the fresh air. Seek medical advice in case of breathing difficulties.

Skin contact: Wash with plenty of soap and water.

Eye contact: Thoroughly rinse with water keeping the eyes wide open Seek eye specialist's advice if an 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 a large amount of water, air/water mechanical emulsion.

Not advised: Foam with organic emulsifier, sand and CO_2 .

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.

Other information: Prevent fire-fighting water from entering waste water.

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6. Accidental release measures

Individual precautions for spillage / leakage:

If possible avoid contact with eyes. Avoid generation of dusts, do not inhale. Personal precautions, see chapter 8.

Procedures for cleaning / 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.

7. Handling and storage

Handling:

No special measures to take when the product is well handled. 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 work place.

Personal protective equipment:

Respiratory protection: Possibly protective mask
Handling protection: Gloves
Eye protection: Safety glasses

Industrial hygiene:

Wash hands after working with the product. Under no circumstances drink, eat or smoke at workplace.

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9. Physical and chemical properties

| | | |
|---------------------------------|-----------------------|----------------|
| Form: | Solid in pellets. | |
| Color: | Grey to pink. | |
| Odour: | Odourless. | |
| pH value: | ≥ 5 (solution at 10%) | |
| Stage changes: | Melting point : | Undetermined |
| | Boiling point : | Undetermined |
| Flash point: | Not applicable. | |
| Decomposition temperature: | > 220°C | |
| Ignition temperature: | > 450°C | |
| Explosive limits: | Lower | undetermined |
| | Upper | : undetermined |
| Density (kg/dm ³) : | 0,99 - 1,01 | |
| Granulometrics (mm): | 1 to 6 | |
| Water solubility: | Soluble. | |
| Log P(o/w): | Undetermined. | |

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. |
| Substances to be avoided: | Alkalines or strong acids, oils, 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. |

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11. Toxicological information

- Acute toxicity: Of the ingredient: Ammonium nitrate
LD50 by the mouth (rat): 2500 – 3000 mg/kg (OCDE tests)
Of the mixture: LD50 by the mouth (rat) : 8670 mg/kg
- Subacute or chronic 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.
- Other information:

12. Ecological information

Formulation data

Mobility:

Nitrates, phosphates, chlorides, calcium ions, potassium and ammonium are adsorbed by the 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.

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.

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14. Transport information

| Shipping regulations: | ADR/RID/ADNR | IMDG/OMI | IATA/ICAO |
|-----------------------|--------------|-------------|-------------|
| Class: | | | |
| UN-No.: | Not subject | Not subject | Not subject |
| Packaging group: | | | |

15. Regulatory information

Labelling in accordance with EC directives and adapted versions of them:

This preparation is not concerned by European laws, according to 99/45/EC Directive and rules in force.

Symbol(s): None

R-phrases : None

S-phrases : None

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

EC-No.:

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.

Origin:

This data sheet was realised on the base of information supplied by the distributor.

This safety data sheet does not replace the using technical notice but complete it. The information contained herein is based on the present state of our knowledge and our experiences about this product at this version date. 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.

This data sheet does not dispense in any case the user to know and applies all regulatory rules concerning his activity.