

# SAFETY DATA SHEET

*in accordance with amended directive 9111551CEE*

Created on : 15/0512006 Rev 10/10/10

Version: 2.0

Trade name:

## Compound Fertilizer NPK 27-6-6

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

Product name: **Compound Fertilizer NPK 27-6-6**

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: 0 - Oxidizer; R 8-9  
 Content: < 70%

Salts contained in the mixture mainly contain the following ions  
 Nitrate: NO<sub>3</sub><sup>-</sup> Ammonium: NH<sub>4</sub><sup>+</sup>  
 Sulphate: SO<sub>4</sub><sup>2-</sup> Potassium: K<sup>+</sup>  
 Phosphate: HPO<sub>4</sub><sup>2-</sup>, H<sub>2</sub>PO<sub>4</sub><sup>-</sup>

### 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 tract. 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.

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## 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

Extinction methods:	Sprayed water, in large quantity.
Not advised:	Foams with organic emulsifier, sand, CO <sub>2</sub> .
Particular risks in the event of fire:	Non combustible but decomposition products may cause combustion of organic substances and emission of harmful or toxic gases, See chapter 10. Risk of explosive decomposition if the product is contaminated or under confinement.
Special equipment:	Wearing self contained breathing apparatus is strongly recommended.
Other information:	Cool containers under threat of fire with water. Avoid pouring fire water down the drains.

## 6. Accidental release measures

Individual precautions for spillage / leakage :	If possible avoid contact with eyes. Personal 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 or forward for disposal. Clean up affected area with plenty of water.
Environmental protection precautions:	Do not discharge the recovered product or clean-up water into the Environment, take steps to contain it.

## 7. Handling and storage

Handling:	No special measures to take when the product is well handled. Avoid the generation of dusts. Avoid all heating under pressure. 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 are plastic material (polypropylene or polyethylene).

## 8. Exposure controls / personal protection

Specific control parameters:	Dust of product: VME : 10 mg/m <sup>3</sup>
Technical measures:	Ventilation of work place.

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Individual protection equipment:	Respiratory protection:	Possibly protective mask.
	Handling protection:	Gloves.
	Eye protection :	Safety glasses.
Industrial hygiene:	Wash hands after working with the product. Do not drink, eat or smoke at the work site.	

## 9. Physical and chemical properties

Form:	Solid in pellets	
Colour:	Pink	
Odour:	Odourless	
pH value:	≥5 (solution at 10%)	
Stage changes:	Melting point/range	approximately 170°C
	Boiling point:	210°C (decomposition)
Flash point:	Not applicable	
Ignition temperature:	Not applicable	
Explosive limits:	Lower	Undetermined
Upper:	undetermined	
Density (kg/dm <sup>3</sup> ):	0,9 - 1,0 at 20°C	
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:	Strong alkalines and strong acids, oils, hypochlorites, perchlorates, reducing agents or catalysts (metallic powder, copper, zinc, and their alloys).
Hazardous decomposition products:	At high temperatures: (> 250°C) : possible formation NO(x), PO(x), SO(x) and NH <sub>3</sub> . Possible formation of NH <sub>3</sub> by contact with highly alkaline products.
Further data:	The mixture is slightly hygroscopic. Contact with water may induce corrosion of metals.

## 11. Toxicological information

Acute toxicity:	Of the ingredient: Ammonium nitrate LD50 by the mouth (rat) : 2500 - 3000 mg/kg (OCDE tests)
Sub-acute or chronic toxicity:	None of the main components is recorded on the IARC carcinogenic products lists.

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Toxicological information: If the dust is inhaled: Irritation of the respiratory tracts, cough.  
In case of prolonged contact with the skin: Possible irritation.  
After eye contact: Possible irritation.  
After ingestion: Possible pain in the esophagus and stomach.

Other information: Nitrate ingestion may reduce the oxygen carrying capacity of the blood, especially in infants(methemoglobinemia).

## 12. Ecological information

Formulation data: Mobility: Nitrates, phosphates, sulphates, ammonium and potassium ions are absorbed by soil. Soluble sulphates 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.

## 14. Transport information

Shipping regulations:	ADR/RID/ADNR	IMDG/OMI	IATA/ICAO
Class:		9	9
UN-No.	2071	2071	2071
Packaging group:		III	III
Transport labelling:	Not subject	Ammonium nitrate based fertilizer	Ammonium nitrate fertilizers
OMI Safety Sheet:		F-H; S-Q	

## 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.1999/45.

Symbol(s): 0 - Oxidizer;

R-phrases: 8 Contact with combustible material may cause fire.

S-phrases: 15 Keep away from heat.

Regulation according to EC fertilizer directives:

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

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: -----

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## 16. Other-information

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Regulatory phrases mentioned

into chapters 2 and 3: R8 - Contact with combustible material may cause fire.  
R9 - Explosive when mixed with combustible material.

Origin: This data sheet was based on information supplied by the distributor.

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.

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