

AMMONIUM NITRATE 34,4-0-0**1. Identification of the substance / preparation and of the company / undertaking**Product name: **AMMONIUM NITRATE 34,4-0-0**

Supplier :

Distributor :

Agrium Europe S.A.
Avenue Louise 326
Bte 36
B – 1050
BRUXELLES – Belgique +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 : 97,5% min

Impurities :

Organic filler (carbon) : $\leq 0,2\%$
Chlorides (Cl) : $< 0,02\%$
Copper : $< 0,001\%$

Salts contained in the mixture mainly contain the following ions :

Nitrates : NO_3^- Ammonium : NH_4^+
Magnesium : Mg^{2+}

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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 : Remove contaminated clothing. Wash with plenty of soap and water.
- Eye contact : Thoroughly rinse out with plenty of water with the eyelid held 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 powder for large quantity.
- Not advised : Foams with organic emulsifier, sand
- Particular risks in the event of fire : Non combustible By decomposition may produce combustion of organic products.
Risk of explosive decomposition if the product is contaminated or under confinement .Emission of toxic gases, See chapter 10.
- Special maintenance equipment: Wearing individual breathing apparatus is strongly recommended.
- Attached information : Cool with water containers under fire attacks.
Avoid pouring fire water down the drains.

6. Accidental release measures

- Individual precautions for spillage / leakage : If possible avoid contact with the skin and 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 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 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: Plastic material (polypropylene or polyethylene) or stainless steel.

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 to yellowish/white depending on origin

Odour : Odourless

pH value : ≥ 4 (solution at 10%)

Stage changes : Melting point/range 160 – 170°C
Boiling point : 210°C (decomposition)

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 : 1900 g/L at 20°C

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:	Alkalines and strong acids, hypochlorites, perchlorates, reducing agents or catalysts (metallic powder, copper, zinc, nickel et their alloys).
Hazardous decomposition products :	At high temperatures: (> 250°C): Possible formation of NO(x) and NH ₃ . NH ₃ formed by contact with highly alkaline products
Further data :	The mixture is slightly hygroscopic

11. Toxicological information

Acute toxicity :	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, possibility of breathing difficulties In case of prolonged contact with skin : Possible irritation. After eye contact: irritation. After ingestion: Possible pain in the oesophagus and stomach, may cause nausea, vomiting, dizziness, and diarrhea .
Other information:	In case of ingestion in large quantity of ammonium nitrate, methaemoglobinemia is possible.

12. Ecological information

Formulation data :	
<u>Mobility</u> :	Nitrates, ammonium ions and magnesium are absorbed by soil. Soluble nitrates not absorbed change to aqueous phase.
Degradability :	The mixture is easily degradable by plants forming nitrogen.
Bioaccumulative potential :	Nothing known for ground and water organisms
Ecotoxicological effects:	The mixture is lightly toxic for water life. Large discharge of nitrates 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 :	5.1	5.1	5.1
UN-No.:	2067	2067	2067
Packaging group:	III	III	III
Transport labelling :	Ammonium nitrate based fertilizer		Ammonium nitrate based fertilizer
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.
R9 Explosive when mixed with combustible material.

S-Phrases : S15 Keep away from heat.
S16 Keep away from sources of ignition - no smoking.
S41 In case of fire and/or explosion do not breathe fumes.

Nota : These labelling mentions do not appear in the obligatory labelling mentions as envisaged in the directive 76/116/EC modified and more particularly its appendix II.

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

Local regulations
France :

Installation classified for the environmental protection:
ICPE – N° 1331

EC-No.:

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