

**1. Identification of the substance / preparation and of the company / undertaking**Product name: **Fluid Fertilizer UAN 32-0-0**

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 : Nitrogenized liquid 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  
Aqueous solution of a mineral and an organic compound.

Ingredients leading to transport classification :

Contains: Ammonium nitrate  
No CAS : 6448-52-2 No EINECS : 229-347-8  
Labelling : Oxidizer ; R 8-9  
Content : 46%

Organic compound :

Name: Urea N° CAS : 57-13-6 N° EINECS : 200-315-5  
This substance is not regulated.

Salt contained in the mixture contain the following ions :

Nitrate :  $\text{NO}_3^-$  Ammonium :  $\text{NH}_4^+$

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## 3. 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 : Mixture with oxidizing properties.

For human : Prolonged contact with the skin or eyes can cause irritation.  
In the event of fire, product decomposition can 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 : In case of inhalation of aerosols, get the victim 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 : None.

Particular risks in the event of fire : Non combustible by decomposition, may produce combustion of organic products  
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 pressurization  
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.  
Personnal precautions, see chapter 8.

Cleaning up / absorption: Seal leak.  
Take up with liquid-absorbent material and put it in a container. 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.  
Wash apparatus after use.

Storage: Store containers at room temperature (+ 10 to + 25°C), in a well-ventilated place.  
Recommended packaging materials: Plastic material (polypropylene or polyethylene) or stainless steel.

## 8. Exposure controls/personal protection

Specific control parameters : The product does not contain any constituent with known exposure limits

Technical measures Ventilation of work place.

Individual protection equipment: Respiratory protection: Mask in case of inhalation of aerosols.  
Hand protection: Gloves.  
Eye protection: Security eyeglasses.

Wear suitable protective clothing in case of handling of large quantities.

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

## 9. Physical and chemical properties

Form: Liquid

Color : Colourless to yellowish or brownish

Odour : Light of ammonia

pH value : 6,5 - 7,5

Stage changes : Melting point/range 0 - -2°C  
Boiling point : superior to 100°C (decomposition of the mixture)

Flash point : Not applicable

Ignition temperature : Not applicable

Explosive limits : Lower undetermined  
Upper : undetermined

Density (kg/dm<sup>3</sup>) : 1,32 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 a strong rise in temperature.

Incompatible materials: Strong alkalines, hypochlorites, perchlorates, reducing agents.

Hazardous decomposition At high temperatures: (> 250°C) : formation of NO(x), of cyanided com-

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products : pounds and NH<sub>3</sub>  
Possible formation of NH<sub>3</sub> by contact with highly alkaline products.

Further data :

## 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 : Inhalation of aerosol: 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

Mobility :

Urea, nitrates and ammonium ions 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.

## 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 :	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 not concerned by European laws, it is labelled according to 99/45/EC Directive and rules in force.

Symbol : None

R-Phrases : None

S-Phrases : None

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

Regulation according to EC fertilizer directives

Regulation 2003/2003/EC and Directive 76/116/EC and its additional directives ) : Obligatory information for packaging.  
Directives 82/501/EC, 87/216/EC, 88/610/EC : Main hazard, SEVESO

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.

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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.