

**STRAIGHT UREA FERTILIZER****1. Identification of the substance / preparation and of the company / undertaking**

Product name: **Straight fertilizer urea 46-0-0**

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 : Organic fertilizer for Agriculture

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

**2. Composition/information on ingredients**

Chemical characteristic of the product :  
Composed organic pure (99 – 100%).  
Name: Urea N° CAS : 57-13-6 N° EINECS : 200-315-5  
This substance is not regulated.

**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.

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.  
The air/dust mixture may ignite or explode.

For the environment : None hazard known.

# MATERIAL SAFETY DATA SHEET

in accordance with amended directive 91/155/CEE

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### 4. First aid measures

Inhalation :	If the dust is inhaled, take the person out into the fresh air; keep warm and relaxed. Seek medical advice if the person is ill.
Skin contact :	Wash with soap and water. Seek medical advice if an irritation appears.
Eye contact :	Thoroughly rinse with water keeping the eyes wide open Consult an eye specialist if irritation appears
Swallowing :	If the person is conscious, 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 – Powder – Foam - CO <sub>2</sub> .
Not advised :	None.
Particular risks in the event of fire :	Non combustible The air/dust mixture may ignite or explode. Refer to heading 10 in this document.
Special maintenance equipment:	Wearing individual breathing apparatus 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. Avoid the generation of dusts.
Cleaning up / absorption:	Scrape up the product with a shovel and put it in a container, it can always be used. 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 for handling in accordance with the instructions for use.
Storage:	Store containers or bags well protected from damp in a cool place. Recommended packaging materials: Plastic material (polypropylene or polyethylene) or stainless steel.

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### 8. Exposure controls/personal protection

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

Individual protection equipment:  
Respiratory protection: Possibly protective mask  
Hand protection: Possibly gloves  
Eye protection : All round goggles

Work hygiene: Wash your hands after work. Do not drink, eat or smoke at the work site. Do not use soiled clothes without washing them.

### 9. Physical and chemical properties

Form: Solid pellets

Color : White

Odour : Very slight of ammonia

pH value : Approximately 8 - 8,5 (solution at 10%)

Stage changes : Melting point/range Superior to 133°C (decomposition)  
Boiling point : Not applicable

Flash point : Not applicable

Ignition temperature : Not applicable

Explosive limits : Lower undetermined  
Upper : Not applicable

Density (kg/dm<sup>3</sup>) : Approximately 1,3 at 20°C

Water solubility : Very soluble

Log P(o/w): 2,19 (estimated by solubility in water)

### 10. Stability and reactivity

Stability : The product is stable under normal 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: Acids and strong bases, powerful oxidants. Can form spontaneously explosive compounds to air by mixture with sodium hypochlorite or calcium hypochlorite.

Hazardous decomposition products : At high temperatures: formation of NO(x), of cyanided compounds and NH<sub>3</sub>Possible formation of NH<sub>3</sub> by contact with highly alkaline products

Further data The product is hygroscopic

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### 11. Toxicological information

Acute toxicity : LD50 by the mouth (rat) 8471 mg/kg

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.  
After skin contact: possible slight irritation in case of prolonged contact. After eye contact: Possible irritation.  
After ingestion: Possible pain in the oesophagus and stomach, gastrointestinal symptoms, vomiting and diarrhea .

Other information:

### 12. Ecological information

Formulation data

Mobility :  
Urea is absorbed by the soil and plants. Urea in excess passes in aqueous phase.

Degradation:  
The product is readily biodegradable

Bio accumulation :  
Nothing known for ground and water organisms  
Bio concentration factor : 0,24 (estimated)

Ecotoxicological effects :  
The product is lightly toxic for water life.

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
PRODUCT NOT SUBJECT TO SHIPMENT REQUIREMENTS.			

### 15. Regulatory information

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

This mixture is not concerned by European laws, it is labelled according to EC Directives and rules in force.

Its principal component is included in EINECS, European inventory of substances.

Regulation according to EC fertilizer directives

European regulation 2003/2003/EC (replace the Directive 76/116/EC and its additional directives) : obligatory information for packaging.

EC-No.:

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### 16. Other information

Regulatory phrases mentioned into chapters 2 et 3 :

None

Origin :

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

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.