

# SAFETY DATA SHEET

according to Regulation (EG) no 1907/2006  
 Generic EU MSDS – No country specific data  
 REVISION DATE: 2014-06-19

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

### 1.1 Product identifier

Product name: Urea  
 Article number: 12-8481-5, 12-8484-5, 16-0025-500

### 1.2 Relevant identified uses of the substance or mixture, and uses advised against

Identified uses: Laboratory chemical; manufacture of substances

### 1.3 Details of the supplier of the safety data sheet

Company: Medicago AB  
 Danmark Berga 13  
 755 98 Uppsala  
 Telephone: +46 (0)18 56 11 80  
 Facsimile: +46 (0)18 56 11 88  
 E-mail address: info@medicago.se

### 1.4 Emergency telephone number

Emergency telephone number: Giftinformationscentralen 112 (Sweden)

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)**

Not classified as hazardous substance or mixture

### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)**

Product does not need to be labelled in accordance with EU-directive or respective national law.

Signal word: -

Hazard statement(s): -

Precautionary statement(s): -

Complementary hazard information:

No further information

### 2.3 Other hazards

No data available

## 3. Composition/information on ingredients

### 3.1 Substances

Substance	CAS-no.	EC-no.	Index-no.	Weight %	Classification according to constitution (EG) no 1272/2008 (CLP)
Urea	57-13-6	200-315-5	-	≤ 100 %	Not classified

## 4. First aid measures

### 4.1 Description of first aid measures

If swallowed	Rinse mouth with water; never give anything by mouth to an unconscious person; get medical attention if symptoms occur
If inhaled	Move to fresh air; get medical attention if symptoms occur; if person is not breathing, give artificial respiration and get medical attention
In case of skin contact	Wash off with soap and water; remove contaminated clothes; get medical attention if irritation occur
In case of eye contact	Wash eyes with plenty of clean water for at least 15 min; remove contact lenses if present and easy-to-do; get medical attention
General advice	Get medical attention if you feel unwell; show this data sheet to the doctor in attendance

### 4.2 Most important symptoms and effects, both acute and delayed

No data available

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

## 5. Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media: water spray, alcohol-resistant foam, dry chemical, carbon dioxide

### 5.2 Special hazards arising from the substance or mixture

Nitrogen oxides, ammonia, carbon oxides

### 5.3 Advice for fire fighters

Wear self-contained breathing apparatus for firefighting

### 5.4 Further information

No further information

## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation; avoid breathing dust; wear lab coat, safety goggles, suitable protection gloves and boots; wash hands before and after use

### 6.2 Environmental precautions

Do not let the product enter drains

### 6.3 Methods and material for containment and cleaning up

Sweep up/shovel into a suitable container; keep container tightly closed for disposal

### 6.4 Reference to other sections

For disposal: see section 13

## 7. Handling and storage

### 7.1 Precautions for safe handling

Avoid dust formation; assure adequate ventilation where dust is formed; avoid contact with skin and eyes

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a tightly closed container at a cool, dry and well ventilated place

### 7.3 Specific end use(s)

No data available

## 8. Exposure controls/personal protection

### 8.1 Control parameters

No data available

(Continued on page 3)

## 8.2 Exposure controls

### Appropriate engineering controls

Use general hygiene procedures; use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits; if user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit

### Personal protective equipment

Eye/face protection	Wear safety goggles (EN 166)
Skin protection	Use proper lab gloves; gloves must be inspected prior to use; wash and dry hands
Body Protection	Wear lab coat or other impervious clothes; type of protection equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace
Respiratory protection	Use dust respirator if necessary; use respirator tested and approved under appropriate government standards such as NIOSH (USA) or CEN (EU)

## 9. Information on basic physical and chemical properties

Appearance	white powder
Odour	no data available
Odour threshold	no data available
pH	7.5-9.5 at 20°C
Melting point/ freezing point	132-135°C
Initial boiling point and boiling range	no data available
Flash point	no data available
Evaporation rate	no data available
Flammability (Solid, gas)	no data available
Upper/lower flammability or explosive limits	no data available
Vapour pressure	0.009 hPa at 20°C
Vapour density	no data available
Relative density	1.33 g/ml at 25°C
Water solubility	480 g/l at 20°C - completely soluble
Partition coefficient: n-octanol/ water	log Pow: -2.59 to -1.59
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

### 9.2 Other information

No further information

## 10. Stability and Reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

In case of fire: carbon oxides, nitrogen oxides, ammonia

## 11. Toxicological information

### 11.1 Information on toxicological effects

#### 11.1.1 Substances

##### Acute toxicity

LD50: Oral - rat - 8.47 mg/kg

##### Skin corrosion/irritation

Skin: rabbit - no skin irritation

(Continued on page 4)

**Serious eye damage/ eye irritation**

Eyes: rabbit - no eye irritation

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

Genotoxicity in vitro: mouse – lymphocyte – DNA damage

Genotoxicity in vivo: mouse – oral – Cytogenetic analysis

**Carcinogenicity**

No data available

**Reproductive toxicity**

No data available

**Specific target organ toxicity – single exposure**

No data available

**Specific target organ toxicity – repeated exposure**

No data available

**Aspiration hazard**

No data available

**Potential health effects**

Inhalation

May be harmful if inhaled; may cause respiratory tract irritation

Ingestion

May be harmful if swallowed

Skin

May be harmful if absorbed through skin; may cause skin irritation

Eye

May cause eye irritation

**Additional information**

RTECS: YR6250000

## 12. Ecological information

**12.1 Toxicity**

Toxicity to fish: LC50 – *Poecilia reticulata* (guppy) - 17.5 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates: EC50 - *Daphnia magna* (Water flea) - 3.91 mg/l - 48 h

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

No data available

**12.6 Other adverse effects**

May be harmful to aquatic life

## 13. Disposal considerations

**13.1 Waste treatment methods**

Waste must be disposed of in accordance with federal, state, and local environmental control regulations.

Contaminated packaging: dispose of as unused product

**14. Transport information**

**14.1 UN-number**

ADR-RID: -                                      IMDG: -                                      IATA: -

**14.2 UN proper shipping name**

ADR-RID:                                      Not dangerous goods  
 IMDG:                                      Not dangerous goods  
 IATA:                                      Not dangerous goods

**14.3 Transport hazard class(es)**

ADR-RID: -                                      IMDG: -                                      IATA: -

**14.4 Packaging group**

ADR-RID: -                                      IMDG: -                                      IATA: -

**14.5 Environmental hazards**

ADR-RID:                                      no  
 IMDG, water pollutant:                      no  
 IATA:                                      no

**14.6 Special precautions for user**

No data available

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

No data available

**15. Regulatory information**

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

No data available

**15.2 Chemical safety assessment**

No data available

**16. Other information**

This information is based on the current state of knowledge.  
 Precaution and disclaimer: For laboratory use only; not for drug, household, or any other use.

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