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

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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

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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

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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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