

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

UREA (ALL GRADES)

Version 3.2

Print Date 2012/07/20

Revision Date 2012/07/20

MSDS code: MURE001

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

1.1. Product identifier

Trade name : UREA (ALL GRADES)
Substance name : Urea
CAS-No. : 57-13-6
EC-No. : 200-315-5

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

Use of the Substance/Mixture : At this time we do not yet have information on identified uses. They will be included in this safety data sheet when available.

Uses advised against : At this moment we have not identified any uses advised against

1.3. Details of the supplier of the safety data sheet

Company : Brenntag UK & Ireland
Albion House, Rawdon Park
GB LS19 7XX Leeds Yeadon
Telephone : +44 (0) 113 3879 200
Telefax : +44 (0) 113 3879 280
E-mail address : msds@brenntag.co.uk

1.4. Emergency telephone number

Emergency telephone number : Emergency only telephone number (open 24 hours):
+44 (0) 1865 407333 (N.C.E.C. Culham)

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Not a dangerous substance according to GHS.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

67/548/EEC
Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

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Most important adverse effects

Human Health : See section 11 for toxicological information.
 Physical and chemical hazards : See section 9 for physicochemical information.
 Potential environmental effects : See section 12 for environmental information.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Not a dangerous substance according to GHS.

Other labelling information:

Further information : Handle in accordance with good industrial hygiene and safety practice.

2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5.
 The product does not need to be labelled in accordance with EC directives or respective national laws.

3. Composition/information on ingredients

3.1. Substances

Remarks : No dangerous ingredients according to Regulation (EC) No. 1907/2006

Non-hazardous component

Chemical Name	Identification Number	Amount [%]
Urea	CAS-No. : 57-13-6	≥ 98.8
	EC-No. : 200-315-5	
	C&L-No. : 02-2119752801-40-0000	

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4. First aid measures

4.1. Description of first aid measures

If inhaled : Remove to fresh air. If symptoms persist, call a physician.

In case of skin contact : Wash off with soap and water. If skin irritation persists, call a physician.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

If swallowed : If symptoms persist, call a physician.

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

Symptoms : See Section 11 for more detailed information on health effects and symptoms.

Effects : See Section 11 for more detailed information on health effects and symptoms.

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

Treatment : Treat symptomatically.
No further information available.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Dry chemical, Carbon dioxide (CO₂), Water spray, Alcohol-resistant foam

Unsuitable extinguishing media : High volume water jet

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting : Under fire conditions: Carbon monoxide, Carbon dioxide (CO₂), nitrogen oxides (NO_x), Ammonia

5.3. Advice for firefighters

Special protective : In the event of fire, wear self-contained breathing

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equipment for firefighters : apparatus. Wear personal protective equipment.
Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Avoid contact with skin and eyes. For personal protection see section 8. Do not breathe vapours or spray mist.

6.2. Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

6.3. Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up : Sweep up and shovel. Keep in suitable, closed containers for disposal. After cleaning, flush away traces with water.

Further information : Treat recovered material as described in the section "Disposal considerations".

6.4. Reference to other sections

For personal protection see section 8.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : Keep container tightly closed. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist.

Hygiene measures : Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Provide adequate ventilation. Avoid contact with the skin and the eyes.

7.2. Conditions for safe storage, including any incompatibilities

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Requirements for storage areas and containers : Keep only in the original container.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Further information on storage conditions : Keep tightly closed in a dry and cool place. Keep away from heat. Protect from frost. Keep in a well-ventilated place.

Advice on common storage : Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

Specific use(s) : No information available.

8. Exposure controls/personal protection**8.1. Control parameters****Other Occupational Exposure Limit Values**

(Additional) Information : Contains no substances with occupational exposure limit values.

8.2. Exposure controls**Personal protective equipment***Respiratory protection*

Advice : If ventilation is insufficient, suitable respiratory protection must be provided
Recommended Filter type: A2

Hand protection

Advice : Protective gloves complying with EN 374.

Eye protection

Advice : Safety goggles

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Skin and body protection

Advice : Protective work clothing

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	:	solid
Colour	:	white
Odour	:	mild
Odour Threshold	:	Currently we do not have any information from our supplier about this.
pH	:	9.2 - 9.5
Melting point/range	:	132.7 °C
Boiling point	:	Currently we do not have any information from our supplier about this.
Flash point	:	Currently we do not have any information from our supplier about this.
Evaporation rate	:	Currently we do not have any information from our supplier about this.
Flammability (solid, gas)	:	Currently we do not have any information from our supplier about this.
Upper explosion limit	:	Currently we do not have any information from our supplier about this.
Lower explosion limit	:	Currently we do not have any information from our supplier about this.

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Vapour pressure	:	Currently we do not have any information from our supplier about this.
Relative vapor density	:	Currently we do not have any information from our supplier about this.
Density	:	1.335 g/cm ³
Water solubility	:	100 g/l (20 °C) 165 g/l (40 °C)
Partition coefficient: n-octanol/water	:	Currently we do not have any information from our supplier about this.
Ignition temperature	:	470 °C
Thermal decomposition	:	Currently we do not have any information from our supplier about this.
Viscosity, dynamic	:	Currently we do not have any information from our supplier about this.
Explosivity	:	Currently we do not have any information from our supplier about this.
Oxidizing properties	:	Currently we do not have any information from our supplier about this.

9.2. Other information

No further information available.

10. Stability and reactivity**10.1. Reactivity**

Advice : No information available.

10.2. Chemical stability

Advice : Stable under normal conditions.

10.3. Possibility of hazardous reactions

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Hazardous reactions : No information available.

10.4. Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5. Incompatible materials

Materials to avoid : Strong acids and oxidizing agents

10.6. Hazardous decomposition products

Hazardous decomposition products : Carbon monoxide, Carbon dioxide (CO₂), nitrogen oxides (NO_x), Ammonia

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Oral

Currently we do not have any information from our supplier about this.

Inhalation

Product dust may be irritating to respiratory system.

Dermal

Currently we do not have any information from our supplier about this.

Irritation

Skin

Danger of mechanical irritation caused by dust particles.

Eyes

Dust in the eyes may cause mechanical irritation.

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MSDS code: MURE001**Sensitisation**

Currently we do not have any information from our supplier about this.

CMR effects**CMR Properties**

- Carcinogenicity : Currently we do not have any information from our supplier about this.
- Mutagenicity : Currently we do not have any information from our supplier about this.
- Teratogenicity : Currently we do not have any information from our supplier about this.
- Reproductive toxicity : Currently we do not have any information from our supplier about this.

Specific Target Organ Toxicity**Single exposure**

Currently we do not have any information from our supplier about this.

Repeated exposure

Currently we do not have any information from our supplier about this.

Aspiration toxicity

Currently we do not have any information from our supplier about this.

Further information

- Other relevant toxicity information : Handle in accordance with good industrial hygiene and safety practice.

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Experience with human exposure : Health injuries are not known or expected under normal use.

12. Ecological information

12.1. Toxicity

12.2. Persistence and degradability

Persistence and degradability

Biodegradability

Result : biodegradable

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

Additional ecological information

Result : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

13. Disposal considerations

13.1. Waste treatment methods

Product : If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging : Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

European Waste : No waste code according to the European Waste Catalogue

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Catalogue Number can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

14. Transport information

Not dangerous goods for ADR, RID and IMDG.

14.1. UN number

|| Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packaging group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IMDG : Not applicable.

15. Regulatory information

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

15.2. Chemical Safety Assessment

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Currently we do not have any information from our supplier about this.

16. Other information

Further information

Other information : The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship. The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

|| Indicates updated section.