

SAFETY DATA SHEET

UREA

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Issued: 17/06/2014
Revision No: 1

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Product name: Urea, Technical Untreated

Other means of identification: Urea, Technical Untreated

CAS No.: 57-13-6

EC No.: 200-315-5

Company name: Nexchem Ltd
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Elm Tree Avenue
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Leicestershire
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Email: sales@nexchem.co.uk

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Main hazards: No Significant Hazard

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Urea, Technical Untreated		57-13-6	200-315-5		99 - 100%	

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Urea, Technical Untreated		57-13-6	200-315-5		99 - 100%	

4. FIRST AID MEASURES

Description of first aid measures:

Inhalation: May cause irritation to mucous membranes. Move the exposed person to fresh air.

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- Eye contact:** May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
- Skin contact:** May cause irritation to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
- Ingestion:** May cause irritation to mucous membranes. If swallowed, seek medical advice immediately and show this container or label. DO NOT INDUCE VOMITING. Seek medical attention if irritation or symptoms persist. Never give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

- Extinguishing media:** Use extinguishing media appropriate to the surrounding fire conditions. Dry chemical. Foam. Water spray.
- Special hazards arising from the substance or mixture:** Burning produces irritating, toxic and obnoxious fumes. Nitrogen Oxides (NO, NO₂), ammonia (NH₃). Carbon dioxide (CO₂).
In case of fire and/or explosion do not breathe fumes. In case of inhalation of decomposition products in a fire, symptoms may be delayed.
- Advice for firefighters:** Protective equipment. Wear suitable respiratory equipment when necessary. Self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures:** Ensure adequate ventilation of the working area.
Avoid formation of dust.
- Environmental precautions:** Do not allow product to enter drains. Prevent further spillage if safe.
- Methods and material for containment and cleaning up:** Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

7. HANDLING AND STORAGE

- Precautions for safe handling:** Avoid formation of dust. Avoid sparks, flames, heat and sources of ignition. Avoid contact with eyes and skin. Avoid contamination by any source including metals, dust and organic materials. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.
- Conditions for safe storage, including any incompatibilities:** Keep in a cool, dry, well-ventilated area. Keep away from heat. Keep away from sources of ignition - No smoking. Keep containers tightly closed. Store in correctly labelled containers. Suitable packaging Store in original container.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure controls: Total Inhalable dust =10 mg/m³.
Respirable dust = 4 mg/m³.

Appropriate engineering controls: Ensure adequate ventilation of the working area.

Individual protection measures: Wear protective clothing.

Eye / face protection In case of splashing, wear: Approved safety goggles.

Skin protection: -

Handprotection: Chemical resistant gloves (PVC).

Exposure controls:

Skin protection – Other: After contact with skin, wash immediately with plenty of water. Wash hands after handling the product. Wear suitable protective clothing, gloves and eye/face protection. Respiratory protection Wear suitable respiratory equipment when necessary. An air-fed mask is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

State:	Solid
Colour:	White
Odour:	Odourless/Ammoniacal
Ph:	9.5
Melting point:	133 °C
Freezing Point:	No data available
Boiling point:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability limits:	No data available
Vapour Flammability:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Autoignition temperature:	No data available
Explosive:	No data available
Oxidising:	No data available
Relative density:	0.74 - 0.79 (Water = 1 @ 20 °C)
Partition coefficient:	No data available
Viscosity:	No data available
Fat Solubility:	No data available
Solubility:	Soluble in water

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Other information:

Conductivity:	No data available
Gas group:	No data available
Surface tension:	No data available
Specific gravity:	No data available
Bulk Density:	No data available

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions.
Incompatible materials:	Acids. Alkalis. Oxidising agents. Nitrites and nitrates. Urea reacts with calcium hypochlorite or sodium hypochlorite to form the explosive nitrogen trichloride.
Hazardous decomposition products:	Ammonia. Carbon oxides. Nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity:	No known significant effects or critical hazards.
Germ cell mutagenicity:	No known significant effects or critical hazards.
Carcinogenicity:	No known significant effects or critical hazards.
Reproductive toxicity:	No known significant effects or critical hazards.
Toxicological Information:	No data available

12. ECOLOGICAL INFORMATION

Toxicity:	No data available
Bioaccumulative potential:	Does not bioaccumulate.
Other adverse effects:	No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

General information:	Dispose of in compliance with all local and national regulations.
Disposal methods:	Contact a licensed waste disposal company. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.
Disposal of packaging:	Do NOT reuse empty containers. Empty containers can be sent for disposal or recycling.

14. TRANSPORT INFORMATION

ADR/RID:	The product is not classified as dangerous for carriage.
IMDG:	The product is not classified as dangerous for carriage.
IATA:	The product is not classified as dangerous for carriage.
Further information:	The product is not classified as dangerous for carriage.

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15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture: Regulations COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

Note: The regulatory information given above only indicates the principal regulations specifically Applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Other information: Revision This document differs from the previous version in the following areas:.
Other information (Specific gravity).
Other information (Bulk Density).

Legal disclaimer: The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.