

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

**Product identifier:**

**Product Name:** UREA  
**EC No (EU Index No):** 200-315-5  
**CAS No:** 57-13-6  
**Synonyms:** CARAMIDE, CARBONYL DIAMIDE, UREA TECHNICAL TREATED, UREA TECHNICAL UNTREATED, URINSTOFF, KARBAMID, PRILLED UREA, PRILLED UREA 46% N, UREA WITH ANTICAKING, UREA UNCOATED (WITHOUT AC) BB, UREA UNCOATED (WITHOUT AC), UREA UNCOATED (WITHOUT AC) LH, UREA COATED (WITH ANTICAKING), UREA TECH 46%, UREA PRILLS (COATED WITH AC) YRA, UREA PRILLS(COATED WITH AC) BOR, UREA CHEM PURE CRYST PH EUR USP, UREA CRYSTALLINE PURE USP, UREA PRILLS (UNCOATED), UREA CRYSTALLINE PURE COSMETIC, UREA (COATED/TREATED WITH AC).  
**Pure substance/mixture:** Substance.

**Relevant identified uses of the substance or mixture and uses advised against:**

**Recommended use:** Cosmetics. Industrial application. Chemical intermediate. Food industry. Pharmaceuticals.  
Resin. Use in laboratories. Fertiliser. pH control.

**Details of the supplier of the safety data sheet:**

**Company name:** Nexchem Ltd  
Unit 3 Barshaw Park  
Leycroft Road  
Leicester  
LE4 1ET  
Tel: 0116 2311130  
24/7 Emergency Tel: 0800 246 1274  
Email: [sales@nexchem.co.uk](mailto:sales@nexchem.co.uk)

## 2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture:** Not classified

**Label elements:** Not classified

**Hazard statements:** Not classified

**Other hazards:** No information available.

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### Substances:

Chemical name	Weight-%	EC No (EU Index No)	UK REACH reg number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
UREA 57-13-6	75 - 100%	200-315-5	-	-	-	-	-

**Full text of H- and EUH-phrases:** See section 16.

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (UK REACH Article 59).

### 4. FIRST AID MEASURES

#### Description of first aid measures:

<b>Inhalation:</b>	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. If breathing is irregular or stopped, administer artificial respiration. Get medical attention if symptoms occur.
<b>Eye contact:</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.
<b>Skin contact:</b>	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if symptoms occur.
<b>Ingestion:</b>	Rinse mouth thoroughly with water. Do NOT induce vomiting. Get medical attention if symptoms occur.

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

<b>Eyes:</b>	Dust contact with the eyes can lead to mechanical irritation.
<b>Dermal:</b>	Non-irritating during normal use.

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

<b>Note to doctors:</b>	Treat symptomatically.
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### 5. FIRE-FIGHTING MEASURES

#### Extinguishing media:

**Suitable Extinguishing Media:** Dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Large Fire:** CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media:** Do not scatter spilled material with high pressure water streams.

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

**Specific hazards arising from the chemical:** When heated and in case of fire, toxic vapours/gases may be formed.

**Hazardous combustion products:** Carbon oxides. Nitrogen oxides (NO<sub>x</sub>). Ammonia.

[cont...]

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### Advice for firefighters:

#### Special protective equipment and precautions for fire-fighters:

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

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

**Personal precautions:** Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with eyes, skin and clothing. Avoid breathing dust. In case of spills, beware of slippery floors and surfaces.

**For emergency responders:** Use personal protection recommended in Section 8.

**Environmental precautions:** See Section 12 for additional Ecological Information.

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

**Methods for containment:** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up:** Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards:** Clean contaminated objects and areas thoroughly observing environmental regulations.

**Reference to other sections:** See section 8 for more information. See section 13 for more information.

## 7. HANDLING AND STORAGE

### Precautions for safe handling:

**Advice on safe handling:** Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with eyes, skin and clothing. Do not breathe dust. Do not eat, drink or smoke when using this product. Avoid generation of dust. Avoid spilling. Keep away from open flames, hot surfaces and sources of ignition. Do not re-use container.

**General hygiene considerations:** Wash hands before breaks and immediately after handling the product.

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

**Storage Conditions:** Keep container tightly closed in a dry and well-ventilated place. Keep in properly labelled containers. Keep at temperatures between 5 and 35 °C. Keep away from open flames, hot surfaces and sources of ignition. Do not store together with. Strong oxidising agents. Strong acids. Strong bases.

**Specific end use(s):** See section 1 for more information.

**Risk Management Methods (RMM):** The information required is contained in this Safety Data Sheet.

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Control parameters:

**Exposure Limits:** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

**Biological occupational exposure limits:** This product, as supplied, does not contain any hazardous materials with biological limits established by the region-specific regulatory bodies.

#### Derived No Effect Level (DNEL) – Workers:

Chemical name	Oral	Dermal	Inhalation
UREA 57-13-6		580 mg/kg bw/day [4] [6]	292 mg/m <sup>3</sup> [4] [6]
		580 mg/kg bw/day [4] [7]	292 mg/m <sup>3</sup> [4] [7]

[4] Systemic health effects.

[6] Long term.

[7] Short term.

#### Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
UREA 57-13-6	42 mg/kg bw/day [4] [6]	580 mg/kg bw/day [4] [6]	125 mg/m <sup>3</sup> [4] [6]
	42 mg/kg bw/day [4] [7]	580 mg/kg bw/day [4] [7]	125 mg/m <sup>3</sup> [4] [7]

[4] Systemic health effects.

[6] Long term.

[7] Short term.

**Predicted No Effect Concentration (PNEC):** No information available.

#### Exposure controls:

**Engineering controls:** No information available.

#### Personal protective equipment:

**Eye/face protection:** Wear safety glasses with side shields (or goggles). Use eye protection according to EN 166.

**Hand protection:** Wear suitable gloves. Gloves must conform to standard EN 374.

**Skin and body protection:** No special protective equipment required.

**Respiratory protection:** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties:

**Physical state:** Solid

**Appearance:** Solid

**Colour:** White

**Odour:** Ammonia

**Odour threshold:** No information available

[cont...]

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Property	Values	Remarks • Method
Melting point / freezing point	133 - 134°C	
Initial boiling point and boiling range	>100 °C	
Flammability		No information available
Flammability Limit in Air		No information available
Upper flammability or explosive limits		
Lower flammability or explosive limits		
Flash point	> 65°C	
Autoignition temperature		No information available
Decomposition temperature		No information available
pH		No information available
pH (as aqueous solution)	< 10 solution (10%)	
Kinematic viscosity		No information available
Dynamic viscosity		No information available
Water solubility	Soluble in water	
Solubility(ies)	Soluble in water ACETONE Ethanol Glycerine Insoluble CHLOROFORM Ether Xylene	
Partition coefficient:	log Pow: -1.59 - -2.11	
Vapour pressure:	<0.1 hPa	@ 20°C.
Relative density:	0.74 - 1.34	@ 20°C.
Bulk density:	No information available	
Liquid Density:	No information available	No information available
Relative vapour density:		No information available.
Particle characteristics:		No information available.
Particle Size:	No information available	
Particle Size Distribution:	No information available	
Explosive properties:	No information available	
Oxidising properties:	No information available	
Other information:		

### 10. STABILITY AND REACTIVITY

**Reactivity:** No known effects under normal use conditions.

**Chemical stability:** Stable under normal conditions.

**Explosion data:**

**Sensitivity to mechanical impact:** None.

**Sensitivity to static discharge:** None.

**Possibility of hazardous reactions:** None under normal processing.

**Conditions to avoid:** None known based on information supplied.

**Incompatible materials:** Strong oxidising agents. Strong acids. Strong bases.

**Hazardous decomposition products:** Carbon oxides. Nitrogen oxides (NOx). Ammonia.

[cont...]

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### 11. TOXICOLOGICAL INFORMATION

#### Information on toxicological effects:

#### Information on likely routes of exposure:

#### Product Information:

<b>Inhalation:</b>	Inhalation of dust in high concentration may cause irritation of respiratory system.
<b>Eye contact:</b>	Dust contact with the eyes can lead to mechanical irritation.
<b>Skin contact:</b>	Non-irritating during normal use.
<b>Ingestion:</b>	Not an expected route of exposure.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

#### Acute toxicity:

#### Numerical measures of toxicity:

#### Component Information:

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
UREA	= 14300 mg/kg (Rat)	-	-

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** Based on available data the classification criteria are not met.

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**Serious eye damage/eye irritation:** Based on available data the classification criteria are not met.

UREA (57-13-6):

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit				Non-irritant

**Respiratory or skin sensitisation:** Based on available data the classification criteria are not met.

**Germ cell mutagenicity:** Based on available data the classification criteria are not met.

#### Component Information:

UREA (57-13-6):

Method	Species	Results
	Ames Test	Negative

**Carcinogenicity** Based on available data the classification criteria are not met.

**Reproductive toxicity** Based on available data the classification criteria are not met.

**STOT - single exposure** Based on available data the classification criteria are not met.

**STOT - repeated exposure** Based on available data the classification criteria are not met.

**Aspiration hazard** No information available.

**Other adverse effects** No information available.

[cont...]

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### 12. ECOLOGICAL INFORMATION

**Toxicity:**

**Ecotoxicity:** Not considered to be harmful to aquatic life.

**UREA (57-13-6):**

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Leuciscus idus	LC50	> 6810 mg/L	96 hours	
	Daphnia magna	EC50	> 10000 mg/L	24 hours	
	Algae	NOEC	> 10000 mg/L	192 hours	

**Persistence and degradability** Readily biodegradable.

**UREA (57-13-6):**

Method	Exposure time	Value	Results
OECD Test No. 302B: Inherent Biodegradability: Zahn-Wellens/ EVPA Test	16 days	Biodegradation 96%	Readily biodegradable

**Bioaccumulative potential:**

**Bioaccumulation:** Not likely to bioaccumulate.

**Component Information:**

Chemical name	Partition coefficient
UREA	-1.59 - -2.11

**Mobility in soil:** Soluble in water.

**Results of PBT and vPvB assessment:**

**PBT and vPvB assessment:** The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
UREA	The substance is not PBT / vPvB

**Other adverse effects:** No information available.

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods:**

**Waste from residues/unused products:** Dispose of in accordance with local regulations.

Dispose of waste in accordance with environmental legislation.

**Contaminated packaging:** Do not reuse empty containers.

[cont...]

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## 14. TRANSPORT INFORMATION

### IATA:

**UN number or ID number:** Not regulated

**UN proper shipping name:** Not regulated

**Transport hazard class(es):** Not regulated

**Packing group:** Not regulated

**Environmental hazards:** No

**Special precautions for user:**

**Special Provisions:** None

### IMDG:

**UN number or ID number:** Not regulated

**UN proper shipping name:** Not regulated

**Transport hazard class(es):** Not regulated

**Packing group:** Not regulated

**Environmental hazards:** No

**Special precautions for user:**

**Special Provisions:** None

**Maritime transport in bulk according to IMO instruments:** No information available

### RID:

**UN number or ID number:** Not regulated

**UN proper shipping name:** Not regulated

**Transport hazard class(es):** Not regulated

**Packing group:** Not regulated

**Environmental hazards:** No

**Special precautions for user:**

**Special Provisions:** None

### ADR:

**UN number or ID number:** Not regulated

**UN proper shipping name:** Not regulated

**Transport hazard class(es):** Not regulated

**Packing group:** Not regulated

**Environmental hazards:** No

**Special precautions for user:**

**Special Provisions:** None

[cont...]

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### 15. REGULATORY INFORMATION

#### Safety, health and environmental regulations/legislation specific for the substance or mixture:

##### National regulations:

##### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (UK REACH - Annex XIV).

This product does not contain substances subject to restriction (UK REACH - Annex XVII).

**Persistent Organic Pollutants:** Not applicable

**Export Notification requirements:** Not applicable

**Named dangerous substances per COMAH Regulations 2015 (as amended):** Not applicable

**The Ozone-Depleting Substances Regulations 2015:** Not applicable

**The Biocidal Products Regulations 2001 (as amended):** Not applicable

**The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended):** Not applicable

**Poisons Act 1972 (Explosive Precursors) Regulations (as Amended):** Not applicable

##### International Inventories:

**TSCA** Contact supplier for inventory compliance status

**DSL/NDSL** Contact supplier for inventory compliance status

**EINECS/ELINCS** Contact supplier for inventory compliance status

**ENCS** Contact supplier for inventory compliance status

**IECSC** Contact supplier for inventory compliance status

**KECL** Contact supplier for inventory compliance status

**PICCS** Contact supplier for inventory compliance status

**AIIC** Contact supplier for inventory compliance status

**NZIoC** Contact supplier for inventory compliance status

##### Legend:

**TSCA** United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** Japan Existing and New Chemical Substances

**IECSC** China Inventory of Existing Chemical Substances

**KECL** Korean Existing and Evaluated Chemical Substances

**PICCS** Philippines Inventory of Chemicals and Chemical Substances

**AIIC** Australian Inventory of Industrial Chemicals

**NZIoC** New Zealand Inventory of Chemicals

##### Chemical safety assessment:

**Chemical Safety Report:** No information available

##### 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.

[cont...]

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## 16. OTHER INFORMATION

### Key or legend to abbreviations and acronyms used in the safety data sheet:

#### Legend:

**SVHC:** Substances of Very High Concern for Authorisation

#### Legend Section 8: Exposure controls/personal protection:

**TWA** TWA (time-weighted average)

**STEL** STEL (Short Term Exposure Limit)

**Ceiling** Maximum limit value

**\*** Skin designation

**+** Sensitisers

#### 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.