



SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name	Urea
CAS No.	57-13-6
EC No.	200-315-5
REACH Registration No.	01-2119463277-33-0065

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

Identified Use(s)	Fertiliser - industrial use.
Uses Advised Against	No information available.

1.3 Details of the supplier of the safety data sheet

Manufacturer

Company Identification	Abu Qir Fertilizers & Chemical Industries
Address of Manufacturer	El Tabia, Rasheed Road Alexandria, Egypt
Postal code	21911
Telephone:	+203 560 3053
Fax	+203 560 3047
E-mail	marketing@abugir.com
Office hours	

Supplier

Company Identification	Abu Qir Fertilizers & Chemical Industries
Address of Supplier	El Tabia, Rasheed Road Alexandria, Egypt
Postal code	21911
Telephone:	+203 560 3053
Fax	+203 560 3047
E-mail	marketing@abugir.com
Office hours	

1.4 Emergency telephone number

Emergency Phone No.	+203 560 3053 (7040-2400)
Contact	Health, Safety and Environment (HSE) Department

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP) Not classified as dangerous for supply/use.

2.2 Label elements

	According to Regulation (EC) No. 1272/2008 (CLP)
Product Name	Urea
Hazard Pictogram(s)	None.
Signal Word(s)	None.
Hazard Statement(s)	None.
Precautionary Statement(s)	None.



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2.3 Other hazards

None known.

2.4 Additional Information

Handling and/or processing of this material may generate a dust which can cause irritation of the eyes, skin, nose and throat. Ingestion of large amount of urea may cause gastrointestinal and abdominal pain.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / REACH Registration No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Urea	57-13-6	200-315-5 01-2119463277-33-0000	≥98-≤99.4	Not classified	

3.2 Mixtures

Not applicable.

4. SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin Contact	Wash skin with water.
Eye Contact	Flush eyes with water for at least 15 minutes.
Ingestion	Wash out mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

None anticipated. Treat symptomatically.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

5. SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing media	As appropriate for surrounding fire.
Unsuitable extinguishing media	None.

5.2 Special hazards arising from the substance or mixture

None anticipated. Heating may cause decomposition.

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear suitable gloves if prolonged skin contact is likely.

6.2 Environmental precautions



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Do not release large quantities into the surface water or into drains.

6.3 Methods and material for containment and cleaning up

Sweep spilled substances into containers if appropriate moisten first to prevent dusting.

6.4 Reference to other sections

See Also Section 8, 13.

7. SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Ensure adequate ventilation. Do not eat, drink or smoke at the work place.
Wash hands thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

In case the material stored in closed container it must be cool, dry, isolated, well ventilated and away from heat and incompatibles. Do not use container made of brass or copper alloy or galvanised metals.

Storage temperature

Ambient.

Storage life

Stable under normal conditions.

Incompatible materials

Avoid contact with strong oxidisers, acids, bases and nitrate. React with sodium or calcium hypochlorite to form explosive nitrogen trichloride.

7.3 Specific end use(s)

Fertiliser - industrial use.

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits No Occupational Exposure Limit assigned.

Urea			
DNEL / DMEL	Oral	Inhalation	Dermal
Industry - Long Term - Local effects			
Industry - Long Term - Systemic effects		292 mg/m ³	580 mg/m ³
Industry - Short term - Local effects			
Industry - Short term - Systemic effects		292 mg/m ³	580 mg/m ³
Consumer - Long Term - Local effects			
Consumer - Long Term - Systemic effects			
Consumer - Short term - Local effects			
Consumer - Short term - Systemic effects			

Urea	
Environment	PNEC
Aquatic Compartment (including sediment)	Fresh water 0.47 mg/l
Terrestrial Compartment	



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Atmospheric Compartment	
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8.2 Exposure controls

8.2.1. Appropriate engineering controls Ensure adequate ventilation.

8.2.2. Personal protection equipment



Eye Protection

Wear eye protection with side protection (EN166).



Skin protection

Not normally required. Wear suitable gloves if prolonged skin contact is likely.



Respiratory protection

Wear suitable respiratory protective equipment if processing involves working in areas where dusts or vapours are likely to be evolved.



Thermal hazards

Not applicable.

8.2.3. Environmental Exposure Controls Do not release large quantities into the surface water or into drains.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Solid. Colour : White.
Odour	Odourless , Pungent.
Odour threshold	Not established.
pH	7.2 @ 100 g/l
Melting point/freezing point	133.3 °C
Initial boiling point and boiling range	133°C (decomposes)
Flash Point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Non-flammable.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	0.0016 Pa @ 25°C
Vapour density	Not available.
Density (g/ml)	1.33 g/cm ³
Relative density	1.33 g/cm ³ @ 20 °C
Solubility(ies)	Solubility (Water) : 624 g/l @ 20 °C (Soluble) Solubility (Other) : Not known.
Partition coefficient: n-octanol/water	-1.73 Log Pow
Auto-ignition temperature	Not applicable.
Decomposition Temperature (°C)	133 °C
Viscosity	Not applicable.



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Explosive properties Not explosive.
Oxidising properties Not oxidising.

9.2 Other information

Granulometry 0.1-5 mm
Dissociation constant <0.6 pKb

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Avoid high temperature and moisture.

10.5 Incompatible materials

Avoid contact with strong oxidisers, acids, bases and nitrate. React with sodium or calcium hypochlorite to form explosive nitrogen trichloride.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity - Ingestion Not classified.
Acute toxicity - Skin Contact Not classified.
Acute toxicity - Inhalation Not classified.
Skin corrosion/irritation Not classified.
Serious eye damage/irritation Not classified.
Skin sensitization data Not classified.
Respiratory sensitization data Not classified.
Germ cell mutagenicity Not classified.
Carcinogenicity Not classified.
Reproductive toxicity Not classified.
Lactation Not classified.
STOT - single exposure Not classified.
STOT - repeated exposure Not classified.
Aspiration hazard Not classified.

11.2 Other information

Not known.



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12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity - Aquatic invertebrates	Low toxicity to invertebrates.
Toxicity - Fish	Low toxicity to fish.
Toxicity - Algae	Low toxicity to algae.
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.

12.2 Persistence and Degradation

Readily biodegradable, non-persistent.

12.3 Bioaccumulative potential

The substance has no potential for bioaccumulation.

12.4 Mobility in soil

Soluble in water. The substance is predicted to have high mobility in soil.

12.5 Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

12.6 Other adverse effects

Not known.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose at suitable refuse site.

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

14. SECTION 14: TRANSPORT INFORMATION

Not classified as hazardous for transport.

15. SECTION 15: REGULATORY INFORMATION

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

European Regulations - Authorisations and/or Restrictions On Use

Candidate List of Substances of Very High Concern for Authorisation Not listed

REACH: ANNEX XIV list of substances subject to authorisation Not listed

REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Not listed



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Community Rolling Action Plan (CoRAP) Not listed

Regulation (EC) N° 850/2004 of the European Parliament and of the Council on persistent organic pollutants Not listed

Regulation (EC) N° 2037/2000 on substances that deplete the ozone layer Not listed

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals Not listed

National regulations

Other Not known.

15.2 Chemical Safety Assessment

A REACH chemical safety assessment has not been carried out.

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16

LEGEND

Hazard Pictogram(s)

Hazard Pictogram(s) None.

Hazard Statement(s) None.

Precautionary Statement(s) None.

Acronyms

CAS : Chemical Abstracts Service

CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

DNEL : Derived No Effect Level

EC : European Community

EINECS : European Inventory of Existing Commercial Chemical Substances

LTEL : Long term exposure limit

PBT : Persistent, Bioaccumulative and Toxic

PNEC : Predicted No Effect Concentration

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

STEL : Short term exposure limit

STOT : Specific Target Organ Toxicity

vPvB : very Persistent and very Bioaccumulative

Disclaimers

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