

SAFETY DATA SHEET

KOCH FERTILISER AUSTRALIA PTY LTD

Section 1 - Identification

Product identifier CENTURO U-PRO UREA (46-0-0-0)

Other means of identification None.

Recommended use of the chemical and restrictions on use

Recommended use Nutrient

Restrictions on use Uses other than the recommended use.

Details of manufacturer or importer

Company name Koch Fertiliser Australia Pty Ltd

Address Level 4 492 St Kilda Rd

Melbourne 3004

Australia

Telephone +011 61 3 94528200 e-mail kochmsds@kochind.com

Emergency telephone

number

Chemtrec: +001 703-527-3887

(Please reverse charges)

Section 2 - Hazard(s) identification

Classification of the hazardous chemical

Physical hazards Not classified.

Health hazards Not classified.

Label elements, including precautionary statements

Hazard symbol(s) None.
Signal word None.

Hazard statement(s) The mixture does not meet the criteria for classification.

Precautionary statement(s)

PreventionNot assigned.ResponseNot assigned.StorageNot assigned.DisposalNot assigned.

Supplemental information None.

Other hazards which do not

None known.

result in classification

Section 3 - Composition and information on ingredients

Mixture

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
Urea	57-13-6	99 - 100
Non-hazardous reaction products	Proprietary	< 0.5

Composition comments All concentrations are in percent by weight.

Section 4 - First aid measures

Description of necessary first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

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Eye contact Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Personal protection for first-aid

responders

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

Symptoms caused by exposure

Dusts may irritate the respiratory tract, skin and eyes.

Medical attention and special

treatment

Treat symptomatically.

Section 5 - Firefighting measures

Extinguishing media

Suitable extinguishing

equipment

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

equipment

None known.

Specific hazards arising from

the chemical

Urea is non-combustible under most conditions. However, during a fire, irritating/toxic gases may be generated. The dust can be ignited at very high temperatures, but not expected to explode

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

(minimum ignition temperature (cloud) = 900 deg C).

Special protective equipment and precautions for firefighters

Fire fighting

equipment/instructions

Use water spray to cool unopened containers.

Hazchem code None.

General fire hazards No unusual fire or explosion hazards noted.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

Section 6 - Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Wear appropriate protective equipment and clothing during clean-up.

For emergency responders

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

Environmental precautions

Methods and materials for containment and cleaning up Avoid discharge into drains, water courses or onto the ground.

Avoid the generation of dusts during clean-up. Collect dust using a vacuum cleaner equipped with HEPA filter. Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. For waste disposal, see section 13 of the SDS.

Section 7 - Handling and storage

Precautions for safe handling

Minimise dust generation and accumulation. Provide appropriate exhaust ventilation at places

where dust is formed. Practice good housekeeping.

Conditions for safe storage, including any incompatibilities Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible

materials (see section 10 of the SDS).

Section 8 - Exposure controls and personal protection

Follow standard monitoring procedures. Control parameters No exposure limits noted for ingredient(s). Occupational exposure limits

Biological limit values

No biological exposure limits noted for the ingredient(s).

Control banding Follow standard monitoring procedures.

If material is ground, cut, or used in any operation which may generate dusts, use appropriate local **Engineering controls**

exhaust ventilation to keep exposures below the recommended exposure limits.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

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Other Wear suitable protective clothing.

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Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Always observe good personal hygiene measures, such as washing after handling the material

and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

Section 9 - Physical and chemical properties

Solid. Physical state Granules. **Form** Colour Purple.

Odour Ammonia-like. **Odour threshold** Not available. pН Not available. Not available. Melting point/freezing point Boiling point and boiling range Not available. Flash point Not available. Not available. **Evaporation rate**

Upper/lower explosive limits

Not available. Explosion limit - lower (%) Explosion limit - upper (%) Not available. Not available. Vapour pressure Not available. Vapour density Relative density Not available.

Solubility

Solubility (water) Not available. Not available. Flammability (solid, gas) Not available. Partition coefficient:

n-octanol/water

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** Not available. **Viscosity Particle characteristics** Not available.

Data relevant with regard to physical hazard classes

No relevant additional information available.

Other physical and chemical parameters

Explosive properties Not explosive. Not oxidising Oxidising properties

Section 10 - Stability and reactivity

Reactivity Reacts violently with strong oxidants, nitrites, inorganic chlorides, chlorites and perchlorates

causing fire and explosion hazard.

Chemical stability Normally stable. May gradually give off ammonia. The product is hygroscopic and will absorb water

by contact with the moisture in the air.

Possibility of hazardous

reactions

Hazardous polymerisation does not occur.

Conditions to avoid Moisture. High temperatures. Contact with incompatible materials.

Incompatible materials Strong oxidising agents. Hypochlorites. Nitric acid. Nitrites. Hazardous decomposition

products

Carbon oxides. Nitrogen oxides (NOx). Ammonia. Biuret.

Section 11 - Toxicological information

Information on possible routes of exposure

Inhalation Dust may irritate respiratory system.

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Dust or powder may irritate the skin. Skin contact

Dust may irritate the eyes. Eye contact

May cause discomfort if swallowed. Ingestion

None known

Early onset symptoms related

to exposure

Dusts may irritate the respiratory tract, skin and eyes.

Delayed health effects from

exposure

Acute toxicity Not expected to be acutely toxic.

Test Results Components **Species**

Urea (CAS 57-13-6)

Acute Oral

LD50 Rat 14300 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Direct contact with eyes may cause temporary irritation. Serious eye damage/irritation

Respiratory or skin sensitisation

Respiratory sensitisation Not a respiratory sensitiser.

This product is not expected to cause skin sensitisation. Skin sensitisation

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Not classifiable as to carcinogenicity to humans. Carcinogenicity

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

Section 12 - Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity**

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components **Species Test Results**

Urea (CAS 57-13-6)

Aquatic

Algae EC₁₀ Algae 47 mg/l, 192 hours Fish LC50 Leuciscus idus > 6810 mg/l, 96 hours

Acute

> 10000 mg/l, 24 hours Crustacea LC50 Water flea (Daphnia magna)

Persistence and degradability

Bioaccumulative potential

No data is available on the degradability of this product.

Partition coefficient

n-octanol / water (log Kow)

Urea (CAS 57-13-6) -2 11

Mobility in soil No data available for this product.

No data available. Other adverse effects

Section 13 - Disposal considerations

Disposal methods Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

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Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

Section 14 - Transport information

ADG

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to

Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

Section 15 - Regulatory information

Safety, health and environmental regulations

National regulations

No poison schedule number allocated. This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the preparation of Safety Data Sheets for Hazardous

Chemicals.

Australia Medicines & Poisons Appendix B

Urea (CAS 57-13-6)

High Volume Industrial Chemicals (HVIC)

Urea (CAS 57-13-6)

100000 - 999999 TONNES See the regulation for additional

information.

Importation of Ozone Depleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10, as amended)

Not listed

National Pollutant Inventory (NPI) substance reporting list

Not listed.

Prohibited Carcinogenic Substances

Not regulated.

Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)

Not listed.

Restricted Carcinogenic Substances

Not regulated.

Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

Not listed.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto Protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No

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Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Section 16 - Any other relevant information

Inventory name

22-May-2024 Issue date

Revision date

used

Country(s) or region

Key abbreviations or acronyms AICIS: Australian Inventory of Industrial Chemicals.

Disclaimer

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On inventory (yes/no)*

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