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### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name:</b> Urea, granular
<b>Formula:</b> NH <sub>2</sub> CONH <sub>2</sub>
<b>Product Use:</b> Agricultural industry: Fertilizer, manufacturing of specialty fertilizers Industrial application: Production of specialty pollution control solutions
<b>Synonyms:</b> Carbamide
<b>Manufacturer's Name:</b> Oman India Fertiliser Company S.A.O.C
<b>Address:</b> P.O. Box:67, P.C:411, Sur, Sultanate of Oman Tel: (+968)25532000, Website: <a href="http://www.omifco.com">www.omifco.com</a> , Email: <a href="mailto:info@omifco.com">info@omifco.com</a>
<b>Emergency Telephone:</b> Tel: (+968)25532167

### SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Component	%	CAS Number
Urea	100	57-13-6

### SECTION 3 — HAZARDS IDENTIFICATION

<b>Classification of the Substance or Mixture:</b> GHS-US Classification: Not classified
<b>Label Elements:</b> GHS-US Labelling: No Labelling applicable
<b>Other Hazards:</b> <b>Eyes:</b> Eye irritant. May cause irritation, redness and pain. <b>Skin:</b> Skin irritant. May cause irritation, redness, itching and pain. Not expected to be toxic by dermal exposure. <b>Inhalation:</b> Not expected to be toxic by inhalation. Urea dust may cause coughing and irritation of the nose, throat and respiratory tract. <b>Ingestion:</b> Not found to be toxic by oral exposure. May cause irritation of the digestive tract if ingested. Nausea, vomiting, diarrhea and transient disorientation may occur in the event a large quantity has been ingested. <b>Pre-Existing Medical Conditions:</b> Conditions aggravated by exposure may include skin disorders and respiratory (asthma-like) disorders. <b>Late Toxicities:</b> Urea is not known to cause mutagenic, carcinogenic or reproductive effects from concentrations or exposure routes normally experienced in the workplace.



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#### SECTION 4 — FIRST AID MEASURES

**Eye Contact:**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical attention if necessary

**Skin Contact:**

Wash off with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

**Inhalation:**

Move to fresh air. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.

**Ingestion:**

Do not induce vomiting. Get medical attention if symptoms occur.

**Most Important Symptoms and Effects Both Acute and Delayed:**

None expected under normal conditions of use

**Notes to Physician:**

Treat symptomatically

#### SECTION 5 — FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:**

Urea is non-flammable; use agent most appropriate to extinguish surrounding fire.

**Unsuitable Extinguishing Media:**

No information available

**Specific Hazards Arising from the Substance or Mixture:**

Thermal decomposition can lead to release of irritating gases and vapors.

**Hazardous Combustion Products:**

Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>) Nitrogen oxides (NO<sub>x</sub>), Ammonia (NH<sub>3</sub>)

**Advice for fire-fighters:**

As in any fire, wear self-contained breathing apparatus and full protective gear. Do not allow run-off from the firefighting to enter drains or water courses.

#### SECTION 6 — ACCIDENTAL RELEASE MEASURES

**Personal Precautions:**

Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.

**Environmental Precautions:**

Keep product out of sewage, drainage systems and all bodies of water.

**Methods for Containment and Clean Up:**

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.



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### SECTION 7 — HANDLING AND STORAGE

**Precautions for safe handling:**

Handle using good industrial hygiene and safety procedures.

Wear appropriate personal protective equipment.

Avoid breathing dust.

Do not eat, drink or smoke when working with this material.

Avoid contact with skin and eyes. Wash hands and other areas of contact thoroughly with soap and water after handling this material.

**Conditions for safe storage:**

Store material in the original container protected from direct sunlight in a clean, cool, dry and well ventilated area.

Protect from moisture.

Store this material away from incompatible materials (Section 10).

**Specific end use(s):**

In Agriculture as Fertilizer, manufacturing of specialty fertilizers. Production of specialty pollution control solutions

### SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

**Exposure Guidelines:**

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Engineering Measures:**

Provide adequate ventilation in storage and handling areas. Provide emergency eye wash station in the vicinity of potential exposure.

**Personal Protective Equipment:**

**Eye/face Protection:** Wear appropriate protective eyeglasses or chemical safety goggles

**Skin and body protection:** Wear appropriate protective gloves and clothing to prevent skin exposure.

**Hand Protection:** Impermeable protective gloves should be worn at all times when handling chemical products

**Respiratory Protection:** No protective equipment is needed under normal use conditions.

**General Hygiene measures:** Wash contaminated clothing before reuse. Wash hands after handling the material particularly before eating or drinking. Avoid breathing dust



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## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b> : Solid	<b>Appearance</b> : White granules
<b>Odour</b> : Odourless or slight Ammonia odour	<b>pH</b> : 7.2 (10% water solution)
<b>Molecular Weight</b> : 60.07	<b>Melting / Freezing point</b> : Decomposes above 132.6°C (270.7°F)
<b>Boiling Point</b> : No data available	<b>Flash Point</b> : No data available
<b>Evaporation Rate</b> : No data available	<b>Self-ignition temperature</b> : No data available
<b>Decomposition temperature</b> : 132.6°C (270.7°F)	<b>Flammability</b> : No data available
<b>Flammability limits</b> : No data available	<b>Vapor Pressure @ 20°C</b> : No data available
<b>Relative vapor density @ 20°C</b> : No data available	<b>Specific Gravity</b> : No data available
<b>Density</b> : 48-52 lb / ft <sup>3</sup>	<b>Solubility in water</b> : 119 g at 77°F (25°C)
<b>Viscosity, dynamic</b> : No data available	<b>Explosive properties</b> : No data available

## SECTION 10 — STABILITY AND REACTIVITY

<b>Reactive Hazard:</b> None known, based on information available
<b>Stability:</b> Stable under normal conditions.
<b>Conditions to Avoid:</b> Incompatible products. Excess heat. Avoid dust formation. Protect from moisture.
<b>Incompatible Materials:</b> Strong oxidizing agents such as Nitric acid, sodium nitrite, nitrosyl perchlorate, gallium perchlorate, hypochlorites, phosphorus pentachloride.
<b>Hazardous Decomposition Products:</b> Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Nitrogen oxides (NO <sub>x</sub> )
<b>Hazardous Polymerization:</b> Hazardous polymerization does not occur.
<b>Hazardous Reactions:</b> None under normal processing.



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**SECTION 11 — TOXICOLOGICAL INFORMATION**

**Acute Toxicity:** Not classified.

**Oral:** Low acute toxicity - LD50 (rat) =8471mg/kg

**Dermal:** No data available

**Skin Corrosion / Irritation:** Prolonged contact can cause irritation.

**Serious damage / Irritation:** Can cause irritation.

**Respiratory or skin sensitization:** Not classified.

**GERM cell mutagenicity:** Not classified

**Carcinogenicity:** Not classified

**Mutagenicity:** Not classified

**Reproductive toxicity:** Not classified

**Teratogenicity:** Not classified

**Specific Target Organ toxicity (single exposure):** Not classified

**Specific Target Organ toxicity (repeated exposure):** Not classified

**Aspiration Hazard:** Not classified

**SECTION 12 — ECOLOGICAL INFORMATION**

**Toxicity**

**LC50 Fish:** 16200 - 18300 mg/l (Exposure time: 96 h - Species: Poecilia reticulata)

**EC50 Daphnia:** 3910 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

**Persistence and Degradability:**

Not established

**Bio-accumulative Potential:**

Not established

**Mobility in Soil:**

Not available

**Other Adverse Effects:**

Other Information: Avoid release to the environment.

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**SECTION 13 — DISPOSAL CONSIDERATIONS**

Urea is not considered a hazardous waste under Federal Hazardous Waste Regulations 40 CFR 261 and not listed as a RCRA Toxic Hazardous Waste. Consult local, state and/or provincial environmental regulatory authorities for acceptable disposal procedures and locations. Follow standard disposal procedures.

**SECTION 14 — TRANSPORT INFORMATION**

Urea is not listed as a hazardous material by the U.S. Department of Transportation (DOT), Transportation of Dangerous Goods (TDG-Canada), International Maritime Dangerous Goods Code (IMDG), and International Air Transport Association (IATA).

**SECTION 15 — REGULATORY INFORMATION**

**U.S. Federal Regulation:**

Urea (57-13-6) is listed on the United State TSCA (Toxic Substances Control Act) inventory. Not listed under TSCA 12(b), SARA 313, Clean Water Act, Clean Air Act, CERCLA, and U.S. State Right-to-Know Regulations

**OSHA (Occupational Safety and Health Administration):**

Not listed.

**Canada**

**CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):** This product is on the Domestic Substances List (DSL) and is acceptable for use under the provisions of CEPA.

**CANADIAN WHMIS CLASSIFICATION:** Not a WHMIS controlled product.

**WHMIS:** This product is not considered hazardous according to WHMIS.

**SECTION 16 — OTHER INFORMATION**

**Issue Date:** 29/10/2024

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its issue. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release of this substance. However, this shall not to be considered a warranty or quality specification and OMICO assumes no liability in connection with the use of the information contained herein by any party. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

