

## Safety Data Sheet

### Section 1: Identification

**Product Name:** Urea Prill

**Other Name/Synonyms:** Carbamide, carbonyl diamide, carbonyldiamine, diaminomethanal, diaminomethanone.

**Product Type:** Solid

**Product Use:** For further manufacturing of feed. For use in ethanol production. For fertilizer.

**Company Identification:**

Origination Inc.  
1300 McKnight Road North  
Maplewood, MN 55119

**For information, call:** 1-800-625-6079

**Emergency Number:** 1-800-625-6079

**For CHEMTREC assistance, call:** 1-800-424-9300

**For International CHEMTREC assistance, call:** 703-527-3887

### Section 2: Hazard(s) Identification

**GHS-US classification:** Not classified.

**GHS-US labeling:** No labeling applicable.

**Signal word (GHS-US):** No signal word.

**Hazard pictograms (GHS-US):** Not applicable.

**Hazard statements (GHS-US):**

No known significant effects or critical hazards.

### Section 3: Composition / Information on Ingredients

Chemical Name and Synonyms	C.A.S. No.	%	GHS-US classification
Urea	57-13-6	100	None

### Section 4: First Aid Measures

**First aid measures general:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**First-aid measures after inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.

**First-aid measures after skin contact:** Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

**First-aid measures after eye contact:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

**First-aid measures after ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

**Most important symptoms and effects, both acute and delayed**

**Symptoms/injuries after inhalation:** May cause respiratory irritation.

**Symptoms/injuries after eye contact:** Causes eye irritation.

**Immediate medical attention and special treatment needed:** No additional information available.

**Note to physician:** None.

## Section 5: Fire Fighting Measures

### Extinguishing Media

**Suitable extinguishing media:** Foam. Dry powder. Carbon dioxide. Water spray. Sand.

**Unsuitable extinguishing media:** Do not use a heavy water stream.

**Special hazards arising from the substance or mixture:** No additional information available.

**Firefighting instructions:** Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

**Protection during firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

## Section 6: Accidental Release Measures

**Emergency procedures:** Evacuate unnecessary personnel. Ventilate area.

**Protective equipment:** Equip cleanup crew with proper protection.

**Environmental precautions:** Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

**Spill containment and clean-up:** On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

## Section 7: Handling and Storage

**Precautions for safe handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well ventilated area.

**Storage conditions:** Keep only in the original container in a cool, well ventilated place away from other materials. Keep container tightly closed.

**Incompatible products:** Store away from incompatible materials (see Section 10). Incompatible with halogens, hydrogen peroxide, chlorinated hydrocarbons, fluorine, nitric acid, oxidizing agents and sulfuric acid. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. Use appropriate containment to avoid environmental contamination.

## Section 8: Exposure Controls, Personal Protection

### Exposure Controls

**Personal protective equipment:** Avoid all unnecessary exposure.

**Hand protection:** Wear protective gloves.

**Eye protection:** Chemical goggles or safety glasses.

**Skin and body protection:** Wear suitable protective clothing.

**Respiratory protection:** Wear appropriate mask.

**Other information:** Do not eat, drink or smoke during use.

## Section 9: Physical and Chemical Properties

### Information on basic physical and chemical properties

**Appearance Form:** Granules.

**Physical State:** Solid.

**Color:** White

**Odor:** Odorless.

**pH:** 7.2 @ 10% solution.

**Melting Point:** 133°C (271.4°F)

**Freezing Point:** No data available.

**Flash Point:** No data available.

**Auto ignition temperature:** No data available.

**Vapor Pressure:** No data available.

**Density:** 46-48 lbs./ft<sup>3</sup> (Bulk Density)

**Solubility:** Easily soluble in the following materials: cold water and hot water.

**Water:** 1080 g/l

**Other:** No additional information available.

**Viscosity:** No data available.

**Oxidizing:** No data available.

**Explosive:** No data available.

## Section 10: Stability and Reactivity

**Chemical Stability:** Stable.

**Reactivity:** Incompatible with halogens, hydrogen peroxide, chlorinated hydrocarbons, fluorine, nitric acid, oxidizing agents and sulfuric acid.

**Possible hazardous reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to Avoid:** Moisture. Extremely high or low temperatures.

**Incompatible materials:** Incompatible with halogens, hydrogen peroxide, chlorinated hydrocarbons, fluorine, nitric acid, oxidizing agents and sulfuric acid.

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

## Section 11: Toxicological Information

### Acute toxicity:

Urea LD50 Oral Mouse - Male 11 g/kg

LD50 Oral Rat - Male 8471 mg/kg

LD50 Oral Rat - Male 14300 mg/kg

**Product/ingredient name Result Species Dose Exposure**

**Conclusion/Summary:** Non-hazardous substance.

**Irritation/Corrosion:** Urea Non-irritating to the skin.

**Product/ingredient name Result Score Exposure Observation****Conclusion/Summary**

**Skin:** Non-irritating to the skin.

**Eyes:** Non-irritating to the eyes.

**Respiratory:** Non-irritating to the respiratory system.

**Sensitization****Conclusion/Summary**

**Skin:** Non-sensitizer to skin.

## Section 12: Ecological Information

Large amounts of urea can damage plant seedlings and inhibit germination. As a readily available source of nitrogen, urea can also foster excessive growth of algae or microorganisms in water systems.

**Urea is non-toxic to aquatic organisms as defined by USEPA.**

**Fish 96 hour LC50:** >9,100 mg/L

**Daphnia 24 hour EC50:** >10,000 mg/L

**Ecotoxicity Information:** The cell multiplication toxicity threshold values for bacteria, green algae, and protozoa are >10,000, >10,000, and 29 mg/L, respectively. The critical range for the creek chub is 16,000 to 30,000 mg/L in Detroit river water.

## Section 13: Disposal Considerations (non-mandatory)

**Disposal Methods:** Dispose in a safe manner in accordance with local/national regulations.

**Waste materials/numbers/code/treatment:** Avoid release to the environment.

## Section 14: Transport Information

**In accordance with DOT:** Not regulated by DOT.

**Other information:** No supplementary information available.

**ADR:** Transport document description.

**Transport by sea:** No additional information available.

**Air transport:** No additional information available.

## Section 15: Regulatory Information

**United States**

**OSHA (Occupational Safety and Health Administration):** This material is considered to be hazardous as defined by the OSHA Hazard Communication Standard.

**CERCLA (Comprehensive Environmental Response, Compensation and Liability Act):** This product does not contain Reportable Quantity substances.

**SARA TITLE III (Superfund Amendment and Reauthorization Act of 1986):** No federal requirements. User should contact local and state regulatory agencies for information on additional or more stringent reporting requirements.

**Sections 311/312:** This product has been reviewed according to the USEPA "Hazard Categories" promulgated under Sections 311 and 312 of SARA Title III and is considered, under applicable definitions, to meet the following categories:

**Acute:** Yes.

**Chronic:** No.

**Fire:** No.

**Reactivity:** No.

## Section 16: Additional Information

**Prepared by:** Origination, Inc.

**Prepared:** Oct, 2015

### Disclaimer:

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