



# Safety Data Sheet

Issue Date: 1/16/2025

Revision Date: n/a

Version No.: 1.0

---

## 1. PRODUCT AND COMPANY IDENTIFICATION

---

**Product Name:** Urea Solution, 50%

**SDS No.:** CCC-023

**Company Name & Address:** Colonial Chemical Company  
78 Carranza Road  
Tabernacle, NJ 08088

**For More Information Call:** 1-609-268-1200 (Monday-Friday 8:00-4:30)

**In Case of Emergency Call:** INFOTRAC 1-800-535-5053 (North America)  
1-352-323-3500 (International)

---

## 2. HAZARDS IDENTIFICATION

---

**OSHA:**

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

---

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

---

Component	Volume %	CAS #
Urea	48-52	57-13-6
Water	48-52	7732-18-5
Urea, reaction products with formaldehyde	< 1.9	68611-64-3
Biuret	< 1.0	108-19-0

*\*Chemicals listed are only those ingredients which are not trade secrets, are classified as health hazards and are present above their concentration limits.*

---

## 4. FIRST-AID MEASURES

---

<b>Eyes</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Inhalation</b>	Remove to fresh air, keep at rest; provide artificial respiration if needed.
<b>Skin</b>	Wash contacted skin with soap and water; if there is a rash or other symptoms, contact a physician.
<b>Ingestion</b>	<b>Do Not Induce Vomiting.</b> If possible, drink milk. If milk is not available, drink water. In all cases, seek advice of a physician.

---

## 5. FIRE-FIGHTING MEASURES

---

<b>Suitable (and unsuitable) extinguishing media</b>	Use water spray, dry chemical, or CO2 fire extinguisher to extinguish fire.
<b>Special protective equipment and precautions for firefighters</b>	Product is not flammable or combustible. If burned in a fire, may emit ammonia, carbon dioxide, or carbon monoxide fumes. Wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Avoid breathing fumes.
<b>Specific hazards arising from the chemical</b>	Not determined.

---

## 6. ACCIDENTAL RELEASE MEASURES

---

<b>Personal precautions, protective equipment and emergency procedures</b>	Use personal protective equipment as required.
<b>Methods for containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Absorb with inert material such as sand or saw dust; shovel into suitable container; dispose of in accordance with local regulations.

---

## 7. HANDLING AND STORAGE

---

### Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions**      Keep containers tightly closed in a dry, cool and well-ventilated place. Store between 60°F and 100°F.

**Incompatible Materials**      Do not mix with nitric acid or other strong acids or bases.

---

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

---

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

### Engineering controls:

Apply technical measures to comply with the occupational exposure limits.

### Personal Protection

<b>Eyes</b>	Avoid contact with eyes. Wear suitable safety glasses.
<b>Inhalation</b>	Ensure adequate ventilation, especially in confined areas.
<b>Skin</b>	Wear suitable protective clothing/rubber gloves.
<b>General</b>	Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	Clear Liquid
Odor	Mild
pH	7 - 9
Specific gravity	1.13 @ 32°C (90°F)
Freezing point	Not Determined
Boiling point	Not Determined
Flash point	Not Determined
Flammability (solid, gas)	Not Determined
Upper/lower flammability or explosive limit	Not Determined
Vapor pressure	Not Determined
Vapor density	Not Determined
Water Solubility	Completely Soluble
Crystallization Point	17°C (63°F)

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under recommended storage conditions. Ammonia may evolve over time at high temperatures.
<b>Possibility of Hazardous Reactions</b>	Hazardous polymerization will not occur.
<b>Conditions to Avoid</b>	Keep out of reach of children.
<b>Incompatible Materials</b>	Reacts strongly with nitrates, nitrites, and hypochlorites.
<b>Hazardous Decomposition Products</b>	None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

<b>Eye Contact</b>	Avoid contact with eyes. Lengthy exposure may be irritating to eyes.
<b>Skin Contact</b>	Avoid contact with skin. Lengthy exposure may be irritating to skin.
<b>Inhalation</b>	Do not inhale. Inhalation may cause irritation of respiratory tract.
<b>Ingestion</b>	Do not ingest.

#### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Urea 57-13-6	> 2000 mg/kg ( Rat )	-	-

### Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

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

**Carcinogenicity** Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

### Numerical measures of toxicity

Not determined

---

## 12. ECOLOGICAL INFORMATION

---

### Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Urea 57-13-6	192 h cell multiplication inhibition test – TT>10,000mg/L	96h Barillius barna LC50 > 9,100mg/L	No data available	24 h Daphnia magna EC50 > 10,000 mg/L

<b>Persistence and Degradability</b>	This product has not been tested for biodegradation. Expected to be rapidly degradable.
<b>Bioaccumulative Potential</b>	Not determined. This product is not expected to bioaccumulate through food chains in the environment.
<b>Mobility in Soil</b>	Not determined.
<b>PBT and vPvB Assessment</b>	Not determined
<b>Other Adverse Effects</b>	Not determined

---

## 13. DISPOSAL CONSIDERATIONS

---

<b>Disposal of Wastes</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated Packaging</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

---

## 14. TRANSPORTATION INFORMATION

---

**Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

## 15. REGULATORY INFORMATION

TSCA Inventory Status	Listed
DSL	Listed
NDSL	Listed
EINECS	Listed
ELINCS	Listed
ENCS	Listed
IECSC	Listed
KECL	Listed
PICCS	Listed
AICS	Listed

**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

**AICS** - Australian Inventory of Chemical Substances

### **US Federal Regulations**

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

### **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### **U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated under applicable state right-to-know regulations

**16. OTHER INFORMATION**

**NFPA Ratings**

Health	1
Flammability	0
Reactivity	0
Specific hazard	N/A

**HMIS Ratings**

Health	1
Fire	0
Reactivity	0
Personal	B

0 =minimal 1= slight 2=moderate 3= serious 4= severe

Revision	Date

Disclaimer: We believe that the information herein is factual but is not intended to be all inclusive. The information relates only to the specific material designated and does not relate to its use in combination with other materials or its use as to any particular process. Because safety standards and regulations are subject to change and because we have no continuing control over the material, those handling, storing or using the material should satisfy themselves that they have current information regarding the particular way the material is handled, stored or used and that the same is done in accordance with federal, state and local law. WE MAKE NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING (WITHOUT LIMITATION) WARRANTIES WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN OR WITH RESPECT TO FITNESS FOR ANY PARTICULAR USE.