



Safety Data Sheet

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No.: 1.1

Revision Date: 2/3/2026

Version

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

| | |
|-------------------|--|
| Eyes | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| Inhalation | Remove to fresh air, keep at rest; provide artificial respiration if needed. |
| Skin | Wash contacted skin with soap and water; if there is a rash or other symptoms, contact a physician. |

| | |
|------------------|--|
| Ingestion | Do Not Induce Vomiting. If possible, drink milk. If milk is not available, drink water. In all cases, seek advice of a physician. |
|------------------|--|

5. FIRE-FIGHTING MEASURES

| | |
|--|---|
| Suitable (and unsuitable) extinguishing media | Use water spray, dry chemical, or CO2 fire extinguisher to extinguish fire. |
| Special protective equipment and precautions for firefighters | 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. |
| Specific hazards arising from the chemical | Not determined. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|--|---|
| Personal precautions, protective equipment and emergency procedures | Use personal protective equipment as required. |
| Methods for containment | Prevent further leakage or spillage if safe to do so. |
| Methods for cleaning up | 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. Avoid contact with aluminum and aluminum-containing materials.

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

| | |
|-------------------|--|
| Eyes | Avoid contact with eyes. Wear suitable safety glasses. |
| Inhalation | Ensure adequate ventilation, especially in confined areas. |

| | |
|----------------|--|
| Skin | Wear suitable protective clothing/rubber gloves. |
| General | 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

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

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

| | |
|---------------------|--|
| Eye Contact | Avoid contact with eyes. Lengthy exposure may be irritating to eyes. |
| Skin Contact | Avoid contact with skin. Lengthy exposure may be irritating to skin. |
| Inhalation | Do not inhale. Inhalation may cause irritation of respiratory tract. |
| Ingestion | 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 |

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

13. DISPOSAL CONSIDERATIONS

| | |
|-------------------------------|---|
| Disposal of Wastes | Disposal should be in accordance with applicable regional, national and local laws and regulations. |
| Contaminated Packaging | 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 |
|----------|------|
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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.