

SAFETY DATA SHEET

PRILLED UREA 46-0-0

Section 1 – Identification

Product	Urea - Prilled (dry urea, carbamide, carbonyl diamide)	Recommended Use: Used in the production of fertilizers, animal feed, SCR for NOx control systems and adhesives.
Manufacturer	TradeMark Nitrogen Corp.	
Address	1216 Old Hopewell Road, Tampa, FL 33619	
Phone	(813) 626-1181 (800) 452-3107	
24 Hour Emergency Contact	Chemtrec (800) 424-9300	

Section 2 – Hazard Identification

Hazard	Product is not hazardous under normal conditions.
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Section 3 – Composition

Ingredients	Component	CAS. No.	Percent by Weight
	Urea (CO(NH ₂) ₂)	57-13-6	97.74%
	Biuret (H ₂ NC(O)NHC(O)NH ₂)	108-19-0	< 0.5%
	Conditioner (Methylenediurea (MDU))		1.76%

Section 4 – First Aid Measures

Inhalation	If inhaled: Remove person to fresh air and keep comfortable for breathing. Provide artificial respiration if necessary. Seek medical attention if necessary.
Skin Contact	If on skin (or hair): Take off all contaminated clothing. Rinse skin with soap and water for at least 15 minutes.
Eye Contact	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention if irritation persists.
Ingestion	If swallowed: Do NOT induce vomiting. Drink large amounts of water. Never give anything by mouth to an unconscious person. Seek medical attention.
Acute Health Hazards	Ingestion may cause irritation to the digestive tract including nausea, vomiting and diarrhea. May also depress the central nervous system (feelings of drowsiness)
Chronic Health Hazards	No known long term effects

Section 5 – Fire Fighting Measures

Suitable Extinguishing Techniques & Equipment	This product is non-flammable and presents no fire hazard. Use extinguishing media appropriate to surrounding fire.
Chemical hazards From Fire	Thermal decomposition occurs above 270°F and will produce ammonia, carbon dioxide and nitrogen oxides.
Special Fire Fighting Procedures	Use extinguishing agent most appropriate to surrounding materials.
NFPA Rating	Health - 1 (Slight), Fire - 0 (Least), Reactivity - 0 (Least)



Section 6 – Accidental Release Measure

Personal Precautions	Prevent exposure to spilled material with the use of proper PPE.
Protective Equipment	PPE should include gloves, goggles or safety glasses and level C protective suit.
Containment	Control the flow of product using dikes of soil, sand bags or other commercially available inert sorbent socks or booms. Material easily dissolves in water so prevent contact with liquids.
In Case of Spill	Contain and pick up spill in diked area. Prevent discharge to sewers or water ways. If uncontaminated, recover and re-use.



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Section 7 – Safe Handling and Storage

Precautions for Safe Handling and Storage	Store in a well ventilated cool dry place.
Incompatibility	Nitric acid, hypochlorites, sodium nitrite, nitrosyl perchlorate, gallium perchlorate and phosphorus pentachloride

Section 8 – Exposure Controls / Personal Protection

Exposure Limits	Component	Permissible Exposure Limit	Threshold Limit Value	Short Term Exposure Limit	Immediately Dangerous to Life or Health
	Urea (CO(NH ₂) ₂)	Not Established	Not Established	Not Established	Not Established
	Biuret (C ₂ H ₅ N ₃ O ₂)	Not Established	Not Established	Not Established	Not Established
	Conditioner (MDU)	Not Established	Not Established	Not Established	Not Established

Engineering Controls Local or general exhaust. Eyewash facilities should be available.

Personal Protective Equipment
 Eyes - Chemical safety goggles or safety glasses.
 Hands - Impervious gloves.
 Respiratory - None required under normal conditions.



Gloves



Goggles

or



Safety Glasses

Section 9 – Physical and Chemical Properties

Appearance and Odor	White solid spherical or granular shape with slight ammonia smell						
Boiling Point	Decomposes above 275°F		Specific Gravity		N/A		
Melting Point	271°F		Molecular Weight		60.056		
Density	44-48 lb/ft ³		Water Reactive		N/A		
Solubility in Water	Highly soluble		pH		6.5 - 8.6		
Flash Point	Not Flammable	Auto Ignition Temp	Not Flammable	Flammability Limits	N/A	LEL N/A	UEL N/A

Section 10 – Stability and Reactivity

Reactivity	Product is not reactive under normal conditions.
Stability	Product is stable under normal conditions.
Hazardous Reactions	Hazardous polymerization will not occur.
Conditions to Avoid	Elevated temperatures may cause container to rupture.
Incompatible Materials	Nitric acid, hypochlorites, sodium nitrite, nitrosyl perchlorate, sodium nitrite, gallium perchlorate and phosphorus pentachloride
Hazardous Decomposition Products	Extreme heat may cause decomposition to ammonia and carbon dioxide and possibly nitrogen oxides.

Section 11 – Toxicology Information

Routes of Exposure	Inhalation, ingestion or contact with the eyes.
Symptoms and Signs of Exposure	Eyes & Skin mild irritant. Repeated exposure may cause inflammation and reddening. Inhalation severe irritation may occur from drying and scratching. Ingestion general irritation of the respiratory tract.
Long Term Effects	Prolonged skin contact may result in dermatitis (inflammation and redness of skin). Repeated ingestion of small amounts may cause weakness, depression, headaches, neurological effects and mental impairment.
Toxicity	No limits have been set for this material.
Carcinogen	The International Agency for Research on Cancer has not classified urea for its carcinogenic potential (IARC 1987).



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Section 12 – Ecological Information

Water Low concentrations are not toxic to fish or other aquatic organisms. High concentrations may encourage excessive algae growth.

Section 13 – Disposal Considerations

Waste Urea is not considered a hazardous waste. Disposal must be done in accordance with local, state and federal environmental regulations. Place waste in an appropriate container with correct labeling.

Section 14 – Transport Information

Shipping This material is not hazardous as defined by 49 CFR 172.101 by the US Department of Transportation

Section 15 – Regulatory Information

United States - SARA Hazard Category This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act (SARA) and is considered, under applicable definitions, to meet the following categories:

Fire - No Pressure - No Reactive - No Acute - Yes Chronic - No

Ammonia nitrate is on the TSCA inventory list.

SARA Title III Information This product contains the following substances subject to the reporting requirements of Title III (EPCRA) of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

Chemical	CAS No.	CERCLA RQ (pounds)	SARA Reporting		
			302	304	313
Urea	57-13-6	N/A	N/A	N/A	N/A

CERCLA / Superfund, 40 CFR Part 117, 302 If this product contains components subject to substances designated as CERCLA reportable Quantity (RQ) Substances, it will be designated in the above table with the RQ value in pounds. If there is a release of RQ Substance to the environment, notification to the National Response Center, Washington DC (800-424-8802) is required.

Section 16 – Other Information

Date of Revision May 2014 TSCA statement revised. February 2013 revision prepared in accordance with 29 CFR 1910.1200 Appendix D to meet Global Harmonization Standards

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