



MSDS

UREA

Section 1 Chemical Product and Company Information

The Chemical Company
PO Box 436
Jamestown, RI 02835
Phone: 401 423 3100

Emergency Number: Chemtrec 800 424 9300

Date: July 15, 2005

Synonyms: Carbamide, carbonyldiamide, carbamidic acid

CAS #: 57-13-6

DOT Hazard Class: Not regulated

Section 2 Composition and Information on Ingredients

Urea 99.5% min.

Section 3 Hazards Identification

Emergency Overview: White powder, prill or needle crystal with slight ammonia-like odor that has little or no known hazards

Potential Health Effects

Eyes & Skin: May cause irritation
Inhalation: May cause irritation to the upper respiratory tract
Ingestion: No hazard in normal industrial use

Carcinogenicity: Not listed under OSHA, IARC, or NTP

Section 4 First Aid Measures

Eyes: Immediately flush eyes with plenty of water for 15 minutes
Skin: Wash off with soap and water
Inhalation: Remove to the fresh air
Ingestion: Wash out mouth, then dilute by drinking several glasses of water
With all of the above: Consult a physician if symptoms persist

Section 5 Fire Fighting Measures

Flash Point: Not flammable

Flammable Limits: N/A

Extinguishing Media: Use media that is appropriate to treat surrounding fire

Special Fire Fighting Procedures: Use fire fighting procedure that is appropriate to treat surrounding fire. Becomes slippery when wet.

Unusual Fire Explosion Hazard: None known

Auto Ignition Temperature: N/A

Section 6 Accidental Release Measures

Isolate hazard area and deny entry to unnecessary or unprotected personnel. Contain spill, sweep up, collect and place in a disposal container. Avoid runoff into storm sewers and ditches which lead to waterways. Urea becomes slippery when wet.

Section 7 Handling and Storage

Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use normal personal hygiene and housekeeping. Store in cool dry area away from other incompatible materials. Product is slightly hygroscopic and should be stored in a dry area to prevent moisture pick up and caking.

Section 8 Exposure Controls, Personal Protection

Respiratory Protection:	Use NIOSH/MSHA approved respirators
Ventilation Requirements:	Ventilate as necessary to eliminate dust from the work area
Skin and Eye Protection:	Use rubber or neoprene gloves, chemical goggles and clothing sufficient to protect skin from dust
Work, Hygienic Practices:	As required to protect skin and eyes from dust, safety showers and/or eye wash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.
Exposure Limits:	None Established

Section 9 Physical and Chemical Properties

Boiling Point:	Decomposes
Vapor Pressure (MM Hg):	N/A
Vapor Density (AIR = 1):	N/A
Specific Gravity (H2O=1):	>1
Bulk Density:	N/A
Percent Volatile by Volume (%):	N/A
Melting Point:	133°C or 272°F
Evaporation Rate (Butyl Acetate = 1):	N/A
Solubility in Water:	Complete
pH:	7.2 of a 10% aqueous solution

Section 10 Stability and Reactivity

Chemical Stability:	Stable under normal temperatures and pressures
Hazardous Polymerization:	Will not occur under normal conditions
Hazardous Decomposition Products:	Ammonia, cyanuric acid and other oxides of nitrogen and carbon
Keep Away From:	Strong oxidizers acids, bases and nitrates

Section 11 Toxicological Information

Not available

Section 12 Ecological Information

Not available

Section 13 Disposal Consideration

Dispose of in accordance with all federal, state and local regulations

RCRA Waste #: Not listed

Section 14 Transportation Information

D.O.T. Shipping Name Urea Not Regulated

Section 15 Regulatory Information

TSCA (Toxic Substance Control Act)

This product is listed on the TSCA Inventory

Cercla Reportable Requirements: (RQ) None

Sara Title III Information:

Section 302 Extremely Hazardous Substance: Unlisted

Section 313 Toxic Chemicals: Unlisted

Section 311/312 Hazard Category: Not Considered a Hazard

Section 16 Other Information

Reason for Issue: Reviewed and Updated Date