




**ALDON  
CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No.: UU0030 UU0040  
Effective Date: March 24, 2005

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Urea	<div><div><b>CHEMTREC</b> <b>800-424-9300</b> Day 585-226-6177</div><div><b>NFPA</b></div><div>HAZARD RATING</div><table><tr><td>MINIMAL</td><td>SLIGHT</td><td>MODERATE</td><td>SERIOUS</td><td>SEVERE</td></tr><tr><td>0</td><td>1</td><td>2</td><td>3</td><td>4</td></tr></table><div><b>HMIS *</b></div><table><tr><td>Health</td><td>0</td></tr><tr><td>Fire</td><td>1</td></tr><tr><td>Reactivity</td><td>0</td></tr></table></div>	MINIMAL	SLIGHT	MODERATE	SERIOUS	SEVERE	0	1	2	3	4	Health	0	Fire	1	Reactivity	0
MINIMAL	SLIGHT		MODERATE	SERIOUS	SEVERE													
0	1		2	3	4													
Health	0																	
Fire	1																	
Reactivity	0																	
Chemical Synonyms	Carbamide; Carbonyldiamide																	
Formula	NH <sub>2</sub> CONH <sub>2</sub>																	
Unit Size	up to 2.5 Kg.																	
C.A.S. No.	57-13-6																	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Urea	100%	None established.
<b>CAUTION! AVOID BREATHING DUST. AVOID CONTACT WITH SKIN AND EYES.</b>		

## SECTION III PHYSICAL DATA

Melting Point (°F)	132°C (270°F)	Specific Gravity (H <sub>2</sub> O = 1)	1.335
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	1.2105 @ 25°C	Evaporation Rate ( =1)	N/A
Vapor Density (Air=1)	2.07		
Solubility in Water	Soluble.		
Appearance & Odor	White crystals or prills; ammonia-like odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Extinguisher Media	Water spray; carbon dioxide; dry chemical.				

### SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Not considered to be a fire or explosion hazard. When heated, it emits highly toxic and irritating fumes of ammonia gas; can react with oxidizing materials.

## SECTION V HEALTH HAZARD DATA UU0030

Threshold Limited Value	None established by (ACGIH 2001). Toxicity data: Orl-rat LD50 14300 mg/kg, ivn-rat LD50 5300 mg/kg. IRDS: Skin-human 22 mg/3 Days-I MLD; TXDS: Intervenous-rabbit LDLo: 4800 mg/kg.
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Effects of Overexposure	Causes eye and skin irritation. Causes digestive and respiratory tract irritation. May cause cardiac disturbances. May cause blood abnormalities. Causes gastrointestinal irritation with nausea, vomiting and diarrhea. Inhalation of dust causes irritation of the nose and throat, coughing and sneezing. Target organs: Blood, cardiovascular system.
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Emergency and First Aid Procedures	<b>INGESTION:</b> Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. <b>EYES:</b> Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. <b>SKIN:</b> Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. <b>INHALATION:</b> Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
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## SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Moisture and excessive temperature.
	Stable	X	

Incompatibility (Materials to Avoid)	Strong oxidizing agents, sodium hypochlorite, sodium nitrate, calcium hypochlorite, nitrosyl perchlorate, gallium perchlorate, diphosphorus pentachloride.
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Hazardous Decomposition Products	Thermal decomposition or burning may produce carbon monoxide and/or carbon dioxide, ammonia, cyanuric acid, oxides of nitrogen.
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Hazardous Polymerization	Conditions to Avoid
May Occur	Will Not Occur
	X

## SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Sweep up and place in a suitable container for reclamation or disposal by incineration or in sanitary landfill. Wash spill area with soap and water. Caution, becomes slippery when wet.
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Waste Disposal Method	Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Uncontaminated material may be disposed of in a sanitary landfill or contract with a licensed waste disposal service.
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## SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None should be needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask.			
Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Lab coat, eye wash station, ventilation hood, safety goggles.
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## SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry place away from strong oxidizing materials and fire hazards. Wash thoroughly after handling.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.
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Water solutions decompose on heating, giving off some ammonia. Do not breathe dust. Avoid contact with skin and eyes. Remove and wash contaminated clothing.

Revision No.	8	Date	03/24/05	Approved	Michael Raszeja	Chemical Safety Coordinator	MR
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D.O.T. NON-REGULATED.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20