



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
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MSDS No. UU 30
Effective Date June 1, 1999

SECTION V HEALTH HAZARD DATA

UU 30

Threshold Limited Value

None established by (ACGIH 1992-93). RTECS No. YR6250000 Toxicity data: Ori-rat LD50 14300 mg/kg, ivn-rat LD50 5300 mg/kg. IRDS: Skin-human 22 mg/3 Days-I MLD; TXDS: Intervenus-rabbit LDLo: 4800 mg/kg.

Effects of Overexposure

TARGET ORGANS AFFECTED: None. **INHALATION:** May cause irritation with sore throat, sneezing, coughing and shortness of breath. **SKIN:** May cause irritation. **EYES:** May cause irritation with redness and pain. **INGESTION:** May cause sore throat and abdominal pain.

Emergency and First Aid Procedures

EYES: Flush thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. If irritation develops or persists, get medical attention. **SKIN:** Wash with mild soap and water. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink and call physician. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

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

Incompatibility (Materials to Avoid)	Strong oxidizing materials, caustics and alkalies.
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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	Not applicable.
	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.
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Uncontaminated material may be disposed of in a sanitary landfill or contract with a licensed waste disposal service.

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.
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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.
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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.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision	No. 6	Date	6/1/99	Approved	Michael Raszeja	Chemical Safety Coordinator	MR
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The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. * Hazardous Materials Industrial Standards. Printed on recycled paper.

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	UREA
Chemical Synonyms	Carbamide
Formula	NH ₂ CONH ₂
Unit Size	up to 2.5 Kg.
C.A.S. No.	57-13-6

CHEMTREC
800-424-9300
Day 716-226-6177

NFPA HAZARD RATING
LEAST SLIGHT MODERATE HIGH EXTREME
0 1 2 3 4

Health	0
Fire	1
Reactivity	0

HMIS *
3 4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Urea	100%	None established.

CAUTION! AVOID BREATHING DUST. AVOID CONTACT WITH SKIN AND EYES.

SECTION III PHYSICAL DATA

Melting Point (°F)	132-135°C (270-275°F)	Specific Gravity (H ₂ O = 1)	1.32 at 18°/4°C
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	1 gram dissolves in 1 mL. water at 20°C.		
Appearance & Odor	White crystals or prills; slight ammonia odor on standing.		

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 (CO ₂); 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.

D.O.T. NON-REGULATED.

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