



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
Avon, New York 14414
(716) 226-6177

MSDS No. MM 427
Effective Date March 26, 1999

SECTION V HEALTH HAZARD DATA

MM427

Threshold Limited Value

None established by ACGIH or OSHA.
Toxicity data: Oral rat LD50 7000 mg/kg.

Effects of Overexposure

INGESTION: May cause gastric disturbances, nausea, vomiting. **SKIN:** May cause mild irritation, redness, dermatitis. **EYES:** Causes moderate irritation, corneal injury may occur, redness and swelling of the conjunctiva. **INHALATION:** Causes respiratory tract irritation with coughing and possible chest pain.

Emergency and First Aid Procedures

INGESTION: If onscious, give several glasses of water to drink and induce vomiting. Call physician immediately. If vomiting occurs involuntarily, keep head lower than hips to prevent aspiration. Never give anything by mouth to an unconscious person. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention. **SKIN:** Flush thoroughly with water, then 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.

SECTION VI REACTIVITY DATA

Stability	Unstable	Stable	Conditions to Avoid	Avoid excessive temperatures, heat, spark or flame.
		X		

Incompatibility (Materials to Avoid)	No data available.
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Hazardous Decomposition Products	Carbon monoxide and/or carbon dioxide, Nitrogen oxides
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Hazardous Polymerization	Conditions to Avoid
May Occur	Will Not Occur
	X
Not applicable.	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Ventilate area. Wearing proper protective clothing, soak up with absorbent material and place in a suitable container for proper disposal. Prevent run-off to sewers and water ways.
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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.

Dispose of in an approved incinerator equipped with an afterburner and scrubber or contract with a licensed waste disposal system.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	Wear a NIOSH/MSHA approved organic vapor/mist respirator.
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Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

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

Precautions to be Taken in Handling & Storing	Store in a cool well ventilated place. Keep away from ignition source. Wash thoroughly after handling. Containers greater than 5 gallons should be grounded.
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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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Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Remove and wash contaminated clothing.

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

Revision	No. 1	Date	3/26/99	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	N-Methylpyrrolidone
Chemical Synonyms	n-Methyl-2-pyrrolidone
Formula	C ₅ H ₉ NO
Unit Size	up to 20 Lt
C.A.S. No.	872-50-4

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

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

Health	1
Fire	2
Reactivity	0

HMIS *

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
n-Methylpyrrolidone	99.9%	None established.
Water: CAS No. 7732-18-5	0.1%	None established.

WARNING! COMBUSTIBLE LIQUID! MAY BE HARMFUL IF

SWALLOWED. CAUSES IRRITATION.

SECTION III PHYSICAL DATA

Melting Point (°F)	Freezing point -25°C (-13°F)	Specific Gravity (H ₂ O = 1)	0.874 - 0.881 @ 25°/25°C
Boiling Point (°F)	202°C (395°F)	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	<1 @ 20°C	Evaporation Rate (Butyl Acetate =1)	0.08
Vapor Density (Air=1)	3.4		
Solubility in Water	Complete		
Appearance & Odor	Clear liquid; mild amine odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	91°C (195°F) TCC	Flammable Limits in Air % by Volume	Lower	Upper
			1.3	9.5

Extinguisher Media	Use water fog, Foam, Carbon dioxide or dry chemical.
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SPECIAL FIREFIGHTING PROCEDURES

Wear a NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 128)

UNUSUAL FIRE AND EXPLOSION HAZARDS

This material may produce a floating fire hazard in extreme fire conditions. Auto-ignition temperature 270°C (518°F).

D.O.T. Combustible liquid, n.o.s., (N-Methylpyrrolidone), Combustible liquid, NA 1993, PG III

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