



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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

MSDS No. NN 270-1A
Effective Date May 14, 1998

SECTION V HEALTH HAZARD DATA

NN 270-1A

Threshold Limited Value

None established for mixture by (ACGIH 1992-93). TWA (Ceiling limit for sodium hydroxide solid) is 2mg/m³ (ACGIH1983-84). For Hexanediamine: Inhalation 10 minute ALC: 1,580 ppm in mice. Skin absorption LC50: 1,100 mg/kg in rabbits. Oral LD50: 792-1127 mg/kg in rats.

Effects of Overexposure

SKIN: Contact may cause severe burns and/or allergic skin reaction.
EYES: May cause severe burns. **INGESTION:** Harmful if swallowed.
INHALATION: May cause upper and lower respiratory tract irritation.
Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures

SKIN: Flood with water, then wash with vinegar. **EYES:** Flush thoroughly with water for 15 minutes, lifting lower and upper eyelids occasionally. Get prompt medical attention. **INGESTION:** If swallowed, if conscious, drink several glasses of water. Call physician immediately. Never give anything by mouth to an unconscious person. **INHALATION:** Remove to fresh air. If illness or discomfort develops, get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Excessive heat and temperature.
	Stable	X		

Incompatibility (Materials to Avoid)	Decomposes with heat, acids.
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Hazardous Decomposition Products	Ammonia, hydrogen cyanide, carbon dioxide.
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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	Neutralize with sodium bisulfate and flush to sewer with copious amounts of water.
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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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	Neutralize with sodium bisulfate and flush to sewer with copious amounts of water.
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SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	Work in a well-ventilated area or ventilation hood			
Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.
Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.	
Other Protective Equipment	Lab coat, eye wash station, proper gloves.			

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool place away from acid and acid fumes. 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.
	Avoid contact with skin, eyes and mucous membranes. Remove and wash contaminated clothing.

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

Revision No. 4	Date 5/14/98	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	NYLON 6-10 (SOLUTION A)
Chemical Synonyms	Synthesis (Nylon Rope Kit)
Formula	Mixture. See Section II.
Unit Size	up to 250 mL.
C.A.S. No.	Mixture. See Section II.

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

Health	3
Fire	0
Reactivity	0

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

HMIS *

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
1,6-Hexanediamine: (CAS No. 124-09-4)	6%	None established.
Sodium Hydroxide: (CAS No. 1310-73-2)	2%	2 mg/m ³ (Ceiling Limit).
Water: (CAS No. 7732-18-5)	92%	None established.

DANGER! CORROSIVE! CAUSES SEVERE BURNS TO SKIN AND EYES. MAY BE FATAL IF SWALLOWED.

SECTION III PHYSICAL DATA

Melting Point (°F)	41°C (105°F) Hexanediamine.	Specific Gravity (H ₂ O = 1)	Approx. 1.0 @ 20°C
Boiling Point (°F)	204°C (399°F) Hexanediamine	Percent Volatile by Volume (%)	92%
Vapor Pressure (mm Hg)	3mm @ 60°C (Hexanediamine).	Evaporation Rate (Water =1)	1 for 92% of Soln. Voln.
Vapor Density (Air=1)	3.8 (Hexanediamine).		
Solubility in Water	Complete		
Appearance & Odor	Water clear, colorless liquid; fishy ammonical odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	85°C (185°F) (COC) Hexanediamine*	Flammable Limits in Air % by Volume Hexanediamine	Lower	Upper
			0.9	4.1

Extinguisher Media	Water spray; dry chemical (ABC); carbon dioxide (CO ₂).
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SPECIAL FIREFIGHTING PROCEDURES	In fire conditions, wear a NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Use flooding amounts of water in early stages of fire.
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* This solution is not flammable. Fumes of Hexanediamine produced on heating, may in fire conditions be flammable.

UNUSUAL FIRE AND EXPLOSION HAZARDS	Fire or excessive heat may produce hazardous decomposition products of ammonia, hydrogen cyanide and carbon dioxide gases.
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(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 154)

D.O.T. Corrosive liquid, N.O.S., (1,6-Hexanediamine, sodium hydroxide), 8, UN 1760, PG II

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



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MSDS No. NN 270-1B
Effective Date May 14, 1998

SECTION V HEALTH HAZARD DATA

NN 270-1B

Threshold Limited Value

TWA: None established for this mixture by (ACGIH 1992-93).

Effects of Overexposure

EYES: May cause burns. High vapor concentrations may be irritating. **SKIN:** May cause burns and can result in defatting and drying of the skin which may result in skin irritation and dermatitis. Can be fatal if absorbed through skin. **INGESTION:** Sebacyl chloride is corrosive and may be fatal if swallowed. Hexane ingestion may result in vomiting; aspiration (breathing) of vomitus into lungs must be avoided as even small quantities may result in aspiration pneumonia. To the best of our knowledge, the chemical physical and toxicological properties for this mixture have not been thoroughly investigated. **INHALATION:** Vapors may be irritating to nose, throat and respiratory tract. High vapor concentrations may produce CNS depression.

Emergency and First Aid Procedures

EYES: Flush thoroughly with water for 15 minutes, lifting lower and upper eyelids occasionally. Get immediate medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **INGESTION:** If swallowed, do NOT induce vomiting. If vomiting occurs spontaneously, keep head lower than hips to prevent aspiration of liquid into the lungs. Get immediate medical attention. **INHALATION:** Remove to fresh air.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Moisture, excessive heat, spark, ignition sources, contamination.
	Stable	X		

Incompatibility (Materials to Avoid)	Moisture, strong oxidizers.
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Hazardous Decomposition Products	Thermal decomposition or burning will produce carbon dioxide and/or carbon monoxide and chlorine gas.
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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	Remove all source of ignition. Wearing suitable protective clothing, absorb spilled material in vermiculite, sand, earth. Place in a fiber carton. Incinerate. Wash spill area well with soap and water.
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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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Dispose of in an approved incinerator or contract with a licensed waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	In the laboratory work in fume hood. If necessary wear a NIOSH/MSHA approved organic vapor respirator.
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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	Smock, apron, eye wash station, goggles, ventilation hood, fire extinguisher.
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SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry, well-ventilated place away from oxidizers 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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Do not inhale or ingest. Use with adequate ventilation. Avoid contact with skin, eyes and mucous membranes. Remove and wash contaminated clothing.

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

Revision No. 4	Date 5/14/98	Approved	Michael Raszeja	Chemical Safety Coordinator	MR
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C.A.S. No.	Mixture. See Section II.

	CHEMTREC 800-424-9300 Day 716-226-6177	Health	1
		Fire	3
		Reactivity	0
NFPA HAZARD RATING		HMIS *	
LEAST SLIGHT MODERATE HIGH EXTREME	0 1 2 3 4		

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Sebacyl Chloride: (CAS No. 111-19-3)	4%	None established.
Hexane: (CAS No. 110-54-3)	96%	180 mg/m ³ (Air)

DANGER! EXTREMELY FLAMMABLE! HARMFUL IF INHALED, SWALLOWED OR ABSORBED THROUGH SKIN. CAN CAUSE NERVOUS SYSTEM INJURY UPON PROLONGED INHALATION.

SECTION III PHYSICAL DATA

Melting Point (°F)	Data not available	Specific Gravity (H ₂ O = 1)	0.70 @ 20°C
Boiling Point (°F)	90°-96°C (195°-206°F) Hexane	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	119 mm @ 37°C (100°F) Hexane	Evaporation Rate (n-Butyl Ac. =1)	4.3 (Hexane)
Vapor Density (Air=1)	3.3 (Hexane).		
Solubility in Water	Negligible		
Appearance & Odor	Colorless liquid; acrid hydrocarbon odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	-15°C (5°F) Hexane (TOC)	Flammable Limits in Air % by Volume	Lower	Upper
		Hexane	1	8

Extinguisher Media	Use water fog, dry chemical or carbon dioxide. Do not use direct stream of water.
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SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, 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

Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials.

D.O.T. Hexanes, 3 UN 1208, PG II

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