



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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

MSDS No. MM 406
Effective Date November 6, 1998

SECTION V HEALTH HAZARD DATA

MM 406

Threshold Limited Value

Toxicity data: Oral-Rat (acute) (rats) LD50 484 mg/kg. ; intraperitoneal (acute) (rats) LC50 65 mg/kg. ; inhalation (acute) (rats) LD50 200 ppm (4 hours)

Effects of Overexposure

SKIN: Severe irritation. **EYES:** Severe irritation. **SENSITIZATION:** Not established. **INHALATION EFFECTS:** Irritating to airways and lungs. **CORROSIVITY:** EYE - May cause blindness. **SKIN:** Not established. **LUNG EFFECTS:** Irritant. **OTHER:** Not established. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures

INGESTION: If swallowed, do NOT induce vomiting. Get emergency medical attention for lavage. Never give anything by mouth to an unconscious person. **SKIN:** Flush with soap and water. Get medical attention. **EYE CONTACT:** Immediately flush with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get emergency medical attention. **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	X	Conditions to Avoid	Thermal decomposition, contamination.
	Stable			

Incompatibility (Materials to Avoid)	Strong acids, strong alkalis, strong oxidizers, acetone, transition metal salts, promoters and reducing agents.
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Hazardous Decomposition Products	Decomposition products are flammable and may autoignite.
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Hazardous Polymerization		Conditions to Avoid	Heat, sparks, ignition sources, contamination.
May Occur	Will Not Occur		
	X		

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Absorb with Vermiculite/Perlite, sweep or scoop up using non-sparking tools and dispose immediately.
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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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Consult with a Lucidol representative for the telephone number of your state's hazardous waste agency.
Lucidol Pennwalt, 1740 Military Road, P.O. Box 1048, Buffalo, New York. 716-877-1740

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None needed in normal laboratory handling for small quantities. If misty conditions prevail or at above room temperature, work in ventilation hood.
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Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves	Neoprene, nitrile rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Goggles, face shield, lab coat, apron, eye wash station, NIOSH/MSHA approved respirator. Can or cartridge, gas or vapor.
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SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store below 100°F (38°C) to maintain active oxygen content, preferably between 65-85°F. Wash thoroughly after handling. Keep container tightly closed when not in use.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals. Do not get in eyes, on skin or clothing. Do not store near combustibles. Empty containers may contain hazardous residues. Keep container tightly closed. Keep away from heat, sparks and open flames. Remove and wash contaminated clothing.
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For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision	No. 6	Date	11/6/98	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	METHYL ETHYL KETONE PEROXIDE SOLUTION
Chemical Synonyms	2-Butanone Peroxide; MEK Peroxide; "Catalyst"
Formula	Mixture *
Unit Size	up to 125 mL.
C.A.S. No.	Mixture

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

NFPA
HAZARD RATING

LEAST	SLIGHT	MODERATE	HIGH	EXTREME
0	1	2	3	4

Health 2
Fire 3
Reactivity 2

HMIS *
3 4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Methyl Ethyl Ketone Peroxide: (CAS No. 1338-23-4) (structures account for 8.8+0.1% active oxygen)	35%	PEL 0.2 ppm (ceiling)
Dimethyl Phthalate: (CAS No. 131-11-3)	32%	5 mg/m ³ (TWA)
2,2,4-Trimethyl-1,3-Pentanediol Diisobuterate: (CAS No. 6846-50-0)	21.8%	None listed.
Hexylene Glycol: (CAS No. 107-41-5)	6.0%	25 ppm (TWA)
Methyl Ethyl Ketone: (CAS No. 78-93-3)	3.0%	200 ppm (TWA)

DANGER! CORROSIVE TO EYES. MAY BE FATAL IF SWALLOWED. STRONG IRRITANT. COMBUSTIBLE.

SECTION III PHYSICAL DATA

Melting Point (°F)	Below -30°C (-22°F)	Specific Gravity (H ₂ O = 1)	1.0840 at 25/25°C
Boiling Point (°F)	Decomposes 70°C (158°F)	Percent Volatile by Volume (%)	None established.
Vapor Pressure (mm Hg)	None established.	Evaporation Rate (=1)	None established.
Vapor Density (Air=1)	None established.		
Solubility in Water	Slight.		
Appearance & Odor	Clear oily liquid; Ketone odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	137°F (58°C) SETA	Flammable Limits in Air % by Volume	Unknown	Lower	-----	Upper	-----
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Extinguisher Media	Water spray; water fog; dry chemical; foam.
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SPECIAL FIREFIGHTING PROCEDURES

If large amount is involved, evacuate area and fight fire from safe distance. Cool surrounding material with water. In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Self Accelerating Decomposition Temperature: 70°C, 45 lbs. cube.

* Water: (CAS No. 7732-18-5)...1.5%...None established.
Hydrogen Peroxide: (CAS No. 7722-84-1)...0.7%...1

UNUSUAL FIRE AND EXPLOSION HAZARDS

Contamination, Temperature - Can decompose with force if confined during exposure to fire. Dangerous fire hazard by chemical reaction with reducing agents or exposure to heat. This material is a powerful oxidizing material.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 145)

D.O.T. ORGANIC PEROXIDE TYPE D, LIQUID, (METHYL ETHYL KETONE PEROXIDE), 5.2, UN3105, PG II

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