



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

221 Rochester Street
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MSDS No.: MM0360
Effective Date: January 12, 2007

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Methyl Alcohol
Chemical Synonyms	Methanol, Wood Alcohol
Formula	CH ₃ OH
Unit Size	up to 55 gal.
C.A.S. No.	67-56-1

 NFPA HAZARD RATING MINIMAL SLIGHT MODERATE SERIOUS SEVERE 0 1 2 3 4	CHEMTREC 800-424-9300 Day 585-226-6177	<table border="1"> <tr> <td>Health</td> <td>3</td> </tr> <tr> <td>Fire</td> <td>3</td> </tr> <tr> <td>Reactivity</td> <td>1</td> </tr> </table>	Health	3	Fire	3	Reactivity	1
	Health	3						
Fire	3							
Reactivity	1							
		HMIS*						

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Methyl alcohol	100%	TWA: 200 ppm; 262 mg/m ³

DANGER! FLAMMABLE! POISON! VAPOR HARMFUL. MAY BE FATAL OR CAUSE

BLINDNESS IF SWALLOWED. HARMFUL IF INHALED. CAN NOT BE MADE NON-POISONOUS.

SECTION III PHYSICAL DATA

Melting Point (°F)	-98°C (-144°F)	Specific Gravity (H ₂ O = 1)	0.79
Boiling Point (°F)	65°C (149°F)	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	96 mm at 20°C	Evaporation Rate (Butyl acetate =1)	4.6
Vapor Density (Air=1)	1.11		
Solubility in Water	Complete.		
Appearance & Odor	Clear, colorless liquid; pungent odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	11°C (52°F) CC	Flammable Limits in Air % by Volume	Lower	Upper
			7.3%	36%
Extinguisher Media	Carbon dioxide; dry chemical; alcohol type foam-water may be ineffective. Flush spill area with water spray.			

SPECIAL FIREFIGHTING PROCEDURES

Firefighters should wear proper protective equipment and a NIOSH/MSHA approved self-contained breathing apparatus with full facepiece operated in positive pressure mode. Move containers from fire area if it can be done without risk. Use water spray to cool fire-exposed containers.

Autoignition Temperature: 463°C (867°F).

(2004 EMERGENCY RESPONSE GUIDEBOOK, RSPA P 5800.9, GUIDE PAGE NO. 131)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Vapors may flow along surfaces to distant ignition sources and flash back. Closed containers exposed to heat may explode. Contact with strong oxidizers may cause fire. Burns with a clear, almost invisible flame.

SECTION V HEALTH HAZARD DATA

MM0360

Threshold Limited Value	STEL 250 ppm, 328 mg/m ³ . (ACGIH 2001) Toxicity data: orl-rat LD50: 1800 mg/Kg.
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Effects of Overexposure	INGESTION: Harmful and may be fatal if swallowed. Cannot be made non-poisonous. Causes headache, nausea and vomiting, gastrointestinal irritation, central nervous system depression, hearing loss, blindness and perhaps death. EYES: Irritation. May cause irritation, corneal damage. INHALATION: May be fatal if inhaled. Breathing vapors may cause narcosis, respiratory failure, low blood pressure, central nervous system disorder, drowsiness, headache, nausea and vomiting. SKIN: Prolonged contact may cause dermatitis. Target organs: Central nervous system, liver, kidneys, heart.
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Emergency and First Aid Procedures	INGESTION: 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. EYES: 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. SKIN: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. * For all routes, keep patient warm and cover eyes to exclude light.
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SECTION VI REACTIVITY DATA

Stability	Unstable	X	Conditions to Avoid	Sparks, excessive heat, sources of ignition, open flame, static charge.
	Stable			

Incompatibility (Materials to Avoid)	Strong oxidizing agents, strong acids, zinc, aluminum and magnesium.
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Hazardous Decomposition Products	Thermal decomposition or burning will produce toxic gases of carbon dioxide and/or carbon monoxide, formaldehyde.
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Hazardous Polymerization	Conditions to Avoid	Not applicable.
	May Occur	
	X	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Eliminate all ignition sources. Use water spray to reduce vapors. Use absorbent materials to soak up spills (sand, earth or vermiculite). Carefully sweep up and place in container for disposal. Spills in critical areas can be diluted with water to reduce fire hazard during clean-up. Do NOT flush to sewer, drain or waterways. Wash spill area 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. Dispose of in an approved incinerator or contract with a licensed waste disposal service.
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SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None needed in normal laboratory handling. If misty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved respirator air-supplied or self-contained breathing apparatus.			
Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Yes.	Other	Adequate to maintain below exposure limit.

Protective Gloves	Rubber.	Eye Protection	Chemical safety goggles.
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Other Protective Equipment	Faceshield, lab coat and apron, eye wash station, safety shower, proper gloves, 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 area away from strong oxidizers and fire hazards. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing. <small>Keep container tightly closed when not in use.</small>
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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. Keep away from heat, sparks and flame. Use explosive-proof electrical fixtures. Containers should be electrically grounded/bonded during material transfer to prevent static spark. Avoid breathing vapors. Use with adequate ventilation.
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Revision No. 8	Date 01/12/07	Approved James A. Bertsch	Chemical Safety Coordinator JAB
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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.

D.O.T. Methanol, 3, UN1230, PG II, Ltd Qty ≤ 1 Lt.

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