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& Boreal
Laboratories**


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MATERIAL SAFETY DATA SHEET

MSDS No. MM0360
Effective Date: October 17, 2002

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Methyl Alcohol	416-984-3000  HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 WHMIS <table border="1"> <tr><td>Health</td><td>3</td></tr> <tr><td>Flammability</td><td>3</td></tr> <tr><td>Reactivity</td><td>1</td></tr> </table>	Health	3	Flammability	3	Reactivity	1
Health	3							
Flammability	3							
Reactivity	1							
Chemical Synonyms	Methanol; Wood Alcohol							
Formula	CH ₃ OH							
CAS No.	67-56-1							

SECTION II DANGEROUS INGREDIENTS

Name	%	TLV Units
Methyl alcohol	100%	TWA: 200ppm; 262 mg/m ³
DANGER! FLAMMABLE! POISON! HARMFUL VAPOR!		

SECTION III PHYSICAL DATA

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

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash point	11°C (CC)	Flammable Limits in Air % by Volume	Lower	Upper
			7.3%	36%

Firefighting Procedures

Use dry chemical, CO₂, alcohol foam, or water spray. In fire conditions, fire-fighters should wear an appropriate mask or a self-containing breathing apparatus.

Flammability and Explosion Hazards

Vapors formed from this product are heavier than air and may travel along the ground to a distant source of ignition and flash back instantly.

Auto-ignition temperature: 463°C

TDG Class 3 Flammable liquid. UN 1230

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

SECTION V REACTIVITY DATA MM0360

Chemical Stability	Yes	<input checked="" type="checkbox"/>	If no, under what conditions?
	No	<input type="checkbox"/>	
Incompatible with Other products	Yes	<input checked="" type="checkbox"/>	Strong oxidizing agents, acids, zinc, aluminum, magnesium.
	No	<input type="checkbox"/>	
Hazardous Decomposition Products	Carbon oxides, formaldehyde.		
Reactive under what conditions	Keep away from heat, sources of ignition.		

SECTION VI TOXICOLOGICAL PROPERTIES

Route of Entry	Inhalation. Ingestion. Eye contact.
TLV	STEL: 250 ppm; 328 mg/m ³
Toxicity for animals	LD50: 1800 mg/kg oral-rat
Chronic effects on humans	Repeated or prolonged exposure to the substance can produce target organ damage. Target organs: Central nervous system, liver, kidneys, heart.
Acute effects on humans	Very dangerous if inhaled, swallowed. Very dangerous in case of eye contact (irritant), of inhalation. Slightly dangerous to dangerous in case of skin contact.

SECTION VII PREVENTIVE MEASURES

Waste Disposal	Discharge, treatment, or disposal may be subject to local laws. Consult your local or regional authorities.
Storage	Keep in a cool, well ventilated place. Keep container tightly closed. Keep away from heat, sources of ignition, incompatibles as acids and oxidizers.
Precautions	Avoid contact with skin and eyes. DO NOT inhale vapor or spray. DO NOT ingest. If ingested, seek medical advice immediately.
Spill or leak	Absorb with an inert DRY material and place in an appropriate waste disposal container.
Protective Clothing	Splash goggles, lab coat, vapor respirator, gloves.

SECTION VIII FIRST AID MEASURES

Specific first aid measures

Ingestion: Call physician or Poison Control Center immediately. Induce vomiting only if advised by the appropriate medical personnel. Eye contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention. Skin contact: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Inhalation: Move victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Allow victim to rest in a well ventilated area. Seek immediate medical attention.

SECTION IX PREPARATION OF THE MSDS

Rev. No.	2	Date	October 17, 2002	Approved	Michael Raszeja
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