



# **Material Safety Data Sheet**

NFPA	HMIS	Personal Protective Equipment
	Health Hazard 2	
	Fire Hazard 3	
	Reactivity 0	See Section 15.

Section 1. Chem	Page Number: 1				
Common Name/ Trade Name	Methyl-d3 Alcohol-d		Catalog Number(s).	M2206	
			CAS#	811-98-3	
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.		RTECS	Not available.	
14422 S. SAN PEDRO STREET GARDENA, CA 90248			TSCA	TSCA 8(b) inventory: Methyl-d3 Alcohol-d	
Commercial Name(s)	Not available.	-	CI#	Not available.	
Synonym	methyl-D3 alchohol-d; Methyl-d3 alcohol-d		IN CASE OF EMERGENCY		
Chemical Name	Methanol-d4			<u>EMERGENCY</u> 2 (24hr) 800-424-9300	
Chemical Family	Not available.	CALL (310) 5	16-8000		
Chemical Formula	CH4-0				
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248				

Section 2.Composition and Information on Ingredients						
				Exposure Limits		
Name		CAS #	TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )	CEIL (mg/m <sup>3</sup> )	% by Weight
1) Methyl-d3 Alcohol-d		811-98-3				100
Toxicological Data       Methyl Alcohol:         on Ingredients       ORAL (LD50):       Acute: 7300 mg/kg [mouse]. 5628 mg/kg [rat].         DERMAL (LD50):       Acute: 15800 mg/kg [rabbit].						
Section 3. Hazards lo	lentification					
Potential Acute Health Effects	Very hazardous in case of ingestion. Hazardous in case of eye contact (irritant), of inhalation. Slightly hazardous in case of skin contact (irritant). Severe over-exposure can result in death.					
Potential Chronic Health Effects	<ul> <li>Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.</li> <li>CARCINOGENIC EFFECTS: Not available.</li> <li>MUTAGENIC EFFECTS: Not available.</li> <li>TERATOGENIC EFFECTS: Not available.</li> <li>DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female, Reproductive system/toxin/male [SUSPECTED].</li> <li>The substance is toxic to the nervous system, gastrointestinal tract, upper respiratory tract, skin, eyes.</li> <li>The substance may be toxic to blood, kidneys, lungs, the reproductive system, liver, heart, brain, cardiovascular system, pancreas.</li> </ul>					

Page Number: 2 Methyl-d3 Alcohol-d Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs. Section 4. First Aid Measures **Eye Contact** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention. Skin Contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately. Serious Skin Contact Not available. Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately. **Serious Inhalation** Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention. Ingestion If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately. Not available. Serious Ingestion

Section 5. Fire and Explosion Data					
Flammability of the Product	Flammable.				
Auto-Ignition Temperature	Not available.				
Flash Points	CLOSED CUP: 11°C (51.8°F).				
Flammable Limits	Not available.				
Products of Combustion	These products are carbon oxides (CO, CO2).				
Fire Hazards in Presence of Various Substances	Highly flammable in presence of open flames and sparks, of heat.				
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.				
Fire Fighting Media and Instructions	Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog.				
Special Remarks on Fire Hazards	Not available.				
Special Remarks on Explosion Hazards	Not available.				

### Section 6. Accidental Release Measures

Small Spill	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.
Large Spill	Flammable liquid. Poisonous liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal.

#### Section 7. Handling and Storage

 Precautions
 Keep locked up.. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, reducing agents, metals, acids, alkalis.

 Storage
 Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Do not store above

closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Do not store above 23°C (73.4°F).

#### Section 8. Exposure Controls/Personal Protection

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Personal Protection	Safety glasses. Lab coat. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor and dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure Limits	Not available.

#### Section 9. Physical and Chemical Properties

Physical state and appearance	Liquid.	Odor	Alcohol-like (Strong.)
Malandar Wataba	26.07 a/mala	Taste	Not available.
Molecular Weight	36.07 g/mole	Color	Colorless
pH (1% soln/water)	Not available.	Color	Colorless
Boiling Point	65.4 (149.7°F)		
Melting Point	-98°C (-144.4°F)		
Critical Temperature	Not available.		
Specific Gravity	0.7915 (Water = 1)		
Vapor Pressure	13.3 kPa (@ 20°C)		
Vapor Density	1.11 (Air = 1)		
Volatility	Not available.		
Odor Threshold	3950 ppm		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	See solubility in water.		

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## Methyl-d3 Alcohol-d

Solubility

Easily soluble in cold water, hot water.

Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	Not available.
Incompatibility with various substances	Reactive with oxidizing agents, reducing agents, metals, acids, alkalis.
Corrosivity	Not available.
Special Remarks on Reactivity	Not available.
Special Remarks on Corrosivity	Not available.
Polymerization	Will not occur.

Section 11. Toxicolo	Section 11. Toxicological Information					
Routes of Entry	Absorbed through skin. Eye contact. Inhalation. Ingestion.					
Toxicity to Animals	Acute oral toxicity (LD50): 5628 mg/kg [rat]. Acute dermal toxicity (LD50): 15800 mg/kg [rabbit].					
Chronic Effects on Humans	<b>DEVELOPMENTAL TOXICITY</b> : Classified Reproductive system/toxin/female, Reproductive system/toxin/male [SUSPECTED]. Causes damage to the following organs: the nervous system, gastrointestinal tract, upper respiratory tract, skin, eyes. May cause damage to the following organs: blood, kidneys, lungs, the reproductive system, liver, heart, brain, cardiovascular system, pancreas.					
Other Toxic Effects on Humans	Very hazardous in case of ingestion. Hazardous in case of inhalation. Slightly hazardous in case of skin contact (irritant).					
Special Remarks on Toxicity to Animals	Not available.					
Special Remarks on Chronic Effects on Humans	Not available.					
Special Remarks on other Toxic Effects on Humans	Not available.					

Section 12. Ecological Information					
Ecotoxicity	Not available.				
BOD5 and COD	Not available.				
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.				
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.				
Special Remarks on the Products of Biodegradation	Not available.				

# Section 13. Disposal Considerations

# Waste Disposal

Section 14. Transp	ort Information					
DOT Classification	CLASS 3: Flammable	liquid.				
Identification	: Methanol UNNA: 12	230 PG: II				
Special Provisions for Transport	Not available.					
DOT (Pictograms)	1.0000 1001 3					
Section 15. Other F	Regulatory Informat	ion and	Pictograms			
Federal and State Regulations		nical notific	Alcohol-d ation and release reporting: Met s.: Methyl-d3 Alcohol-d: 5000 II			
California Proposition 65 Warnings						
Other Regulations			of Hazard Communication Stan European Inventory of Existing			
Other Classifications	WHMIS (Canada)	CLASS [	<ul><li>3-2: Flammable liquid with a flas</li><li>D-1A: Material causing immedia</li><li>D-2B: Material causing other tox</li></ul>	te and serio	us toxic effec	
	DSCL (EEC)	R11- Highly flammable.       S7- Keep container tightly closed.         R23/24/25- Toxic by inhalation, in contact with skin and if swallowed.       S16- Keep away from sources of ignit smoking.         S36/37- Wear suitable protective cloth gloves.       S45- In case of accident or if you feel seek medical advice immediately (sho label where possible).		ources of ignition - No protective clothing and t or if you feel unwell,		
HMIS (U.S.A.)	Health Hazard         Fire Hazard         Reactivity         Personal Protection	2 3 0 X	National Fire Protection Association (U.S.A.)	Health		Flammability Reactivity Specific hazard
WHMIS (Canada) (Pictograms)						
DSCL (Europe) (Pictograms)		3				
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Methyl-d3 Alcohol-a	1		Page Number: 6
TDG (Canada) (Pictograms)			
ADR (Europe) (Pictograms)			
Protective Equipment		Gloves.	
		Lab coat.	
		Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Safety glasses.	
	00		

Section 16. Other Information			
MSDS Code	5670M		
References	Not available.		
Other Special Considerations	Not available.		
Validated by Sonia Owen on 8/11/2006.		Verified by Sonia Owen.	
		Printed 9/12/2006.	
CALL (310) 516-80	00		

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.