



Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
10	Health Hazard Fire Hazard 1	
	Reactivity	See Section 15.

Section 1. Chemical Product and Company Identification			Page Number: 1	
Common Name/ Trade Name	Thiamine mononitrate	Catalog Number(s).	YY1371, T1054, TH117	
		CAS#	532-43-4	
Manufacturer	SPECTRUM CHEMICAL MFG. CORP.	RTECS	XI7400000	
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: Thiamine mononitrate	
Commercial Name(s)	Not available.	CI#	Not available.	
Synonym	3-[(4-Amino-2-methyl-5-pyrimidinyl)methyl]-5-(2-hydroxyethyl)-4-menitrate	IN CASE OF	<u>EMERGENCY</u>	
Chemical Name		CHEMTREC	C (24hr) 800-424-9300	
Chemical Family Not available.		CALL (310) 5	CALL (310) 516-8000	
Chemical Formula	C12H17N5O4S			
Supplier	SPECTRUM CHEMICAL MFG. CORP. 14422 S. SAN PEDRO STREET GARDENA, CA 90248			

Section 2.Composition and Information on Ingredients					
			Exposure Limits		
Name	CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
1) Thiamine mononitrate	532-43-4				100
Toxicological Data Not on Ingredients	applicable.				

Section 3. Hazards Identification	
Potential Acute Health Effects	Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.
Potential Chronic Health Effects	Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available.

Thiamine monon	itrate Page Number: 2	
Section 4. First A	Section 4. First Aid Measures	
Eye Contact	Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used.	
Skin Contact	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.	
Serious Skin Contact	Not available.	
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.	
Serious Inhalation	Not available.	
Ingestion	Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.	

Section 5. Fire and E.	xplosion Data
Flammability of the Product	May be combustible at high temperature.
Auto-Ignition Temperature	Not available.
Flash Points	Not available.
Flammable Limits	Not available.
Products of Combustion	These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2).
Fire Hazards in Presence of Various Substances	Not available.
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	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Special Remarks on Fire Hazards	Not available.
Special Remarks on Explosion Hazards	Not available.

Section 6. Accidental Release Measures	
Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Serious Ingestion

Not available.

Thiamine mononitra	nte		Page Number: 3
Section 7. Handling	and Storage		
Precautions	Keep away from heat. Keep away from sources residue under a fume hood. Ground all equipment		n. Empty containers pose a fire risk, evaporate the material. Do not breathe dust.
Storage	Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.		
Section 8. Exposure	Controls/Personal Protection		
Engineering Controls			engineering controls to keep airborne levels below lust, fume or mist, use ventilation to keep exposure to
Personal Protection	Safety glasses. Lab coat. Dust respirator. Be sur	e to use a	n approved/certified respirator or equivalent. Gloves.
Personal Protection in Case of a Large Spill			A self contained breathing apparatus should be used clothing might not be sufficient; consult a specialis
Exposure Limits	Not available.		
Section 9. Physical a	nd Chemical Properties		
Physical state and appearance	Solid.	Odor	Not available.
Molecular Weight	327.36 g/mole	Taste	Not available.
pH (1% soln/water)	Not available.	Color	Not available.
Boiling Point	Not available.		
Melting Point	Decomposes. (198°C or 388.4°F)		
Critical Temperature	Not available.		
Specific Gravity	Not available.		
Vapor Pressure	Not applicable.		
Vapor Density	Not available.		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	See solubility in water.		
Solubility	Partially soluble in cold water.		
Section 10. Stability	and Reactivity Data		
Stability	The product is stable.		
Instability Temperature	Not available.		
Conditions of Instability	Not available.		
Incompatibility with various	Not available.		

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Non-corrosive in presence of glass.

Corrosivity

Thiamine monor	itrate	Page Number: 4
Special Remarks on Reactivity	Not available.	
Special Remarks on Corrosivity	Not available.	
Polymerization	No.	

Section 11. Toxicolo	Section 11. Toxicological Information	
Routes of Entry	Ingestion.	
Toxicity to Animals	LD50: Not available. LC50: Not available.	
Chronic Effects on Humans	Not available.	
Other Toxic Effects on Humans	Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of inhalation.	
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. Ecologic	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 more toxic.		
Special Remarks on the Products of Biodegradation	Not available.		

Section 13. Disposal Considerations

Waste Disposal

Section 14. Trans DOT Classification	Not a DOT controlled material (United States).
Identification	Not applicable.
Special Provisions for Transport	Not applicable.
DOT (Pictograms)	

Thiamine mononitrate Page Number: 5 Section 15. Other Regulatory Information and Pictograms TSCA 8(b) inventory: Thiamine mononitrate **Federal and State** Regulations **Proposition 65** Warnings **Other Regulations** Not available.. WHMIS (Canada) **Other Classifications** Not controlled under WHMIS (Canada). DSCL (EEC) This product is not classified according to the EU regulations. HMIS (U.S.A.) **Health Hazard** (1) **National Fire Protection** Flammability **Association (U.S.A.)** Fire Hazard **(1)** Health Reactivity Reactivity 0 Specific hazard Personal Protection E WHMIS (Canada) (Pictograms) **DSCL** (Europe) (Pictograms) TDG (Canada) (Pictograms) ADR (Europe) (Pictograms) **Protective Equipment** Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses.

Thiamine mononitrate	Page Number: 6
Section 16. Other Information	

Section 16. Other Information			
MSDS Code	T3340		
References	Not available.		
Other Special Considerations	Not available.		
Validated by Sonia Owen on 12/22/2006.		Verified by Sonia Owen. Printed 1/2/2007.	

CALL (310) 516-8000

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.