



Material Safety Data Sheet

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

Section 1. Chem	ical Product and Company Identification		Page Number: 1
Common Name/ Trade Name	Protoporphyrin IX	Catalog Number(s).	P3262
		CAS#	553-12-8
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RTECS	Not available.
	14422 S. SAN PEDRO STREET GARDENA, CA 90248		TSCA 8(b) inventory: Protoporphyrin IX
Commercial Name(s)	Not available.	CI#	Not available.
Synonym	Protoporphyrin IX, Free Acid; Kammerer's porphyrin; Ooporphyrin 3,18-Divinyl-2,7,13,17-tetramethylporphine-8,12-dipropionic acid 3,7,12,17-tetramethyl-8,13-divinyl-2,18-porphinedipropionic acid 2 1 H , 2 3 H - P o p h i n e - 2 , 1 8 - d i p r o p a n o i c a c i d , 7,12-diethenyl-3,8,13,17-tetramethyl-; 3,3'-(3,7,12,17-Tetramethyl-8-13-divinylporphine-2,189-diyl)di(propion acid)	IN CASE OF CHEMTREC	EMERGENCY (24hr) 800-424-9300
Chemical Name	8,13-Divinyl-3.7,12,17-tetramethyl-21H,23H-porphine-2,18-dipropionic acid		
Chemical Family	Not available.	CALL (310) 5	16-8000
Chemical Formula	C34-H34-N4-O4		
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/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
1) Protoporphyrin IX	553-12-8				100
Toxicological Data Not applicable. on Ingredients		ı	I		

Protoporphyrin IX

Page Number: 2

Section 3. Hazards Identification

Potential Acute Health Effects Slightly hazardous in case of skin contact (sensitizer), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health

Effects

CARCINOGENIC EFFECTS: Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.

Repeated or prolonged exposure is not known to aggravate medical condition.

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. Get medical attention if irritation occurs.	
Skin Contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.	
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.	
Serious Inhalation	Not available.	
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.	
Serious Ingestion	Not available.	

Section 5. Fire and Explosion 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	Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.	
Explosion Hazards in Presence of Various Substances	Slightly explosive in presence of open flames and sparks. Non-explosive in presence of shocks.	
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	As with most organic solids, fire is possible at elevated temperatures	
Special Remarks on Explosion Hazards	Fine dust dispersed in air in sufficient concentrations, and in the presences of an ignition source is a potential dust explosion hazard.	

Protoporphyr	rin IX Page Number: 3	
Section 6. Acc	idental 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.	
Section 7. Har	ndling and Storage	
Precautions	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe dust. Keep away from incompatibles such as oxidizing agents.	
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 8°C (46.4°F). Refrigerate. Store at temperatures between 2 deg. C and 8 deg. C	

Section 8. Exposure Controls/Personal Protection		
Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.	
Personal Protection	Safety glasses. Lab coat.	
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.	
Exposure Limits	Not available.	

Physical state and appearance	Solid. (Powdered solid.)	Odor	Not available.	
		Taste	Not available.	
Molecular Weight	562.66 g/mole			
pH (1% soln/water)	Not available.	Color	Violet. (Dark.)	
Boiling Point	Not available.			
Melting Point	Not available.			
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	Not available.			
Solubility	Not available.			

Protoporp	hyrin IX	Page Number: 4
Section 10.	. Stability and Reactivity Data	
Stability	The product is stable.	

Instability Temperature

Not available.

Conditions of Instability

Excess heat, dust generation, incompatible materials

Incompatibility with various Reactive with oxidizing agents.

substances

Corrosivity Not available.

Special Remarks on Not available.
Reactivity

Special Remarks on Corrosivity

Not available.

Polymerization Will not occur.

Section 11. Toxicological Information		
Routes of Entry	Inhalation. Ingestion.	
Toxicity to Animals	LD50: Not available. LC50: Not available.	
Chronic Effects on Humans	Not available.	
Other Toxic Effects on Humans	Slightly hazardous in case of skin contact (sensitizer), of ingestion, 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	Acute Potential Health Effects: Skin: May cause skin irritation. Eyes: May cause eye irritaiton. Inhalation: May cause respiratory tract irritation. Ingestion: No information found. Expected to be a low ingestion hazard for usual industrial handling.	

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 product itself and its products of degradation are not toxic.	
Special Remarks on the Products of Biodegradation	Not available.	

Protoporphyrin IX Page Number: 5

Section 13. Disposal Considerations

Vaste Disposal Waste must be disposed of in accordance with federal, state and local environmental

control regulations.

Section 14.	Transport	Information
-------------	-----------	-------------

DOT Classification Not a DOT controlled material (United States).

Identification Not applicable.

Special Provisions for

Transport

Not applicable.

DOT (Pictograms)



Section 15. Other Regulatory Information and Pictograms

TSCA 8(b) inventory: Protoporphyrin IX **Federal and State** Regulations

Proposition 65 Warnings

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found.

California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.

Other Regulations EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications

WHMIS (Canada) Not controlled under WHMIS (Canada).

DSCL (EEC) This product is not classified according Not applicable. to the EU regulations.

HMIS (U.S.A.)



National Fire Protection Association (U.S.A.)

Health



WHMIS (Canada) (Pictograms)



DSCL (Europe) (Pictograms)



TDG (Canada) (Pictograms)



Protoporphyrin IX			Page Number: 6
ADR (Europe) (Pictograms)			
Protective Equipment		Not applicable.	
	/\\$\\	Lab coat.	
		Not applicable.	
	29 - 188 <u>9 - 20</u>	Safety glasses.	
	VV		

Section 16. Other Information		
MSDS Code	P0240	
References	Not available.	
Other Special Considerations	Not available.	
Validated by Sonia Owen on 8/11/2006.		Verified by Sonia Owen.
		Printed 9/13/2006.
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.