



Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
20	Health Hazard 2 Fire Hazard 1	
	Reactivity	See Section 15.

Section 1. Chemical Product and Company Identification Page Number: 1			
Pyrene	Catalog Number(s).	P2187	
	CAS#	129-00-00	
SPECTRUM LABORATORY PRODUCTS INC.	RTECS	UR2450000	
14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: Pyrene	
Not available.	CI#	Not available.	
Benzo(D,E,F)phenanthrene			
Pyrene		<u>EMERGENCY</u> 2 (24hr) 800-424-9300	
Not available.	CALL (310) 5	16-8000	
C16-H10			
SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248			
	Pyrene SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248 Not available. Benzo(D,E,F)phenanthrene Pyrene Not available. C16-H10 SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET	Pyrene Catalog Number(s). SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248 RTECS TSCA Not available. CI# Benzo(D,E,F)phenanthrene IN CASE OF CHEMTREC Pyrene CALL (310) 5 Not available. CALL (310) 5 SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET SPECTRUM LABORATORY PRODUCTS INC.	

Section 2.00mposition and information on ingredients						
				Exposure Limits		
Name		CAS #	TWA (mg/m ³)	STEL (mg/m ³)	CEIL (mg/m ³)	% by Weight
1) Pyrene		129-00-00				100
Toxicological Data on Ingredients	Pyrene: ORAL (LD50): Acute: 2700 mg/kg [Rat]. 800 mg/kg [Mouse].					
Section 3. Hazards Identification						
Potential Acute Health Effects	Hazardous in case of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant, permeator).					
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: 3 (Not classifiable for human.) by IARC. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.					

Section 4. First Aid Measures

least 15 minutes. Get medical attention. Skin Contact In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse 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 oxyg medical attention. Serious Inhalation Not available. Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouthing by mouthin			
Serious Skin Contact Not available. Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxyg medical attention. Serious Inhalation Not available. Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mou unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loos clothing such as a collar, tie, belt or waistband.	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.	
Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxyg Serious Inhalation Not available. Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mou unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loos clothing such as a collar, tie, belt or waistband.	Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Ren contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. medical attention.	
Serious Inhalation Mot available. Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mou unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loos clothing such as a collar, tie, belt or waistband.	Serious Skin Contact	Not available.	
Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mou unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loos clothing such as a collar, tie, belt or waistband.	Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.	
unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loos clothing such as a collar, tie, belt or waistband.	Serious Inhalation	Not available.	
Serious Ingestion 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).	
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of heat, of combustible materials. Non-flammable in presence of shocks.	
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Slightly explosive in presence of heat. Non-explosive in presence of open flames and sparks.	
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.

Section 7. Handling and Storage

Precautions	Keep locked up Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. 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.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 24°C (75.2°F). Preferably refrigerate.

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. Synthetic apron. Gloves (impervious).	
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.	

Section 9. Physical and Chemical Properties

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Physical state and appearance	Solid. (Crystalline solid. Powdered solid.)	Odor	Not available.
Molecular Weight	202.26 g/mole	Taste	Not available.
pH (1% soln/water)	Not applicable.	Color	Yellow.
Boiling Point	404°C (759.2°F)		
Melting Point	151.2°C (304.2°F)		
Critical Temperature	Not available.		
Specific Gravity	1.271 @ 23 C (Water = 1)		
Vapor Pressure	Not applicable.		
Vapor Density	Not available.		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	The product is more soluble in oil; log(oil/water) =	4.9	
Ionicity (in Water)	Not available.		
Dispersion Properties	ls not dispersed in cold water, hot water. See solubility in diethyl ether.		
Solubility	Soluble in diethyl ether. Insoluble in cold water, hot water. Pyrene is fairly soluble in organic solvents. It is soluble in alcohol, benzene, carbon disulfide	e, ether, pet	roleum ether, and toluene

Stability	The product is stable.	
Instability Temperature	Not available.	
Conditions of Instability	Excess heat, incompatible materials	
Incompatibility with various substances	Reactive with oxidizing agents.	
Corrosivity	Not available.	
Special Remarks on Reactivity	Not available.	
Special Remarks on Corrosivity	Not available.	
Polymerization	Will not occur.	

Section 11. Toxicological Information		
Routes of Entry	Inhalation. Ingestion.	
Toxicity to Animals	Acute oral toxicity (LD50): 800 mg/kg [Mouse].	
Chronic Effects on Humans	CARCINOGENIC EFFECTS: 3 (Not classifiable for human.) by IARC. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast.	
Other Toxic Effects on Humans	Hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant, permeator).	
Special Remarks on Toxicity to Animals	Not available.	
Special Remarks on Chronic Effects on Humans	May affect genetic material (mutagenic). May cause cancer (tumorigenic) according to animal data.	
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: May cause skin irritation. May be absorbed through skin. Eyes: May cause eye irritation. Conjunctival irritation may be noted. Inhalation: May cause respiratory tract irritation. Ingestion: May cause gastrointestinal tract irritation. May affect behavior/Central Nervous System (excitation and muscel spasicity), liver and urinary system, and immune system, and blood.	

Section 12. Ecological Information		
Ecotoxicity	Ecotoxicity in water (LC50): 1.8 mg/l 48 hours [Water flea].	
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. Dispo						Page Number: 5
	sal Considerations					
Waste Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations.					
Section 14. Trans	port Information					
DOT Classification	Not a DOT controlled material (United States).					
Identification	Not applicable.					
Special Provisions for Fransport	Not applicable.					
DOT (Pictograms)						
Section 15. Other	Regulatory Informa	tion and	Pictograms			
Federal and State Regulations	Connecticut carcinogen reporting list.: Pyrene Illinois chemical safety act: Pyrene New York release reporting list: Pyrene Pennsylvania RTK: Pyrene Massachusetts RTK: Pyrene Massachusetts spill list: Pyrene New Jersey: Pyrene New Jersey spill list: Pyrene Louisiana RTK reporting list: Pyrene Louisiana spill reporting: Pyrene California Director's list of Hazardous Substances: Pyrene TSCA 8(b) inventory: Pyrene TSCA 8(a) CAIR: Pyrene TSCA 8(d) H and S data reporting: Pyrene: June 1, 1987-June1, 1997 SARA 302/304/311/312 extremely hazardous substances: Pyrene CERCLA: Hazardous substances.: Pyrene: 5000 lbs. (2268 kg)					
California Proposition 65 Warnings						
Other Regulations	EINECS: This produ	ct is on the	European Inventory of Existing	g Commercia	al Chemical Su	bstances.
Other Classifications	WHMIS (Canada) DSCL (EEC)	R20/21/22- Harmful by inhalation, in S2- Keep contact with skin and if swallowed. S36/37- W gloves. S46- If sw		out of the reach of children. Vear suitable protective clothing and vallowed, seek medical advice ely and show this container or label.		

Pyrene		Page Number: 6
WHMIS (Canada) (Pictograms)		
DSCL (Europe) (Pictograms)	×	
TDG (Canada) (Pictograms)		
ADR (Europe) (Pictograms)		
Protective Equipment		Gloves (impervious).
		Synthetic apron.
		Not applicable.
	$\nabla \nabla$	Safety glasses.
Section 16. Other Inf	ormation	
MSDS Code 5876	SP	
References Not a	vailable.	

Other Special Considerations	Not available.	
Validated by Sonia Owen on 8/11/2006.		Verified by Sonia Owen. Printed 9/13/2006.
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.