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## **Material Safety Data Sheet**

NFPA	HMIS	Personal Protective Equipment
20	Health Hazard2Fire Hazard1Reactivity0	
		See Section 15.

Section 1. Chemical Product and Company Identification			Page Number: 1	
Common Name/ Trade Name	Pyrocatechol	Catalog Number(s).	P1455	
		CAS#	120-80-9	
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RTECS	UX1050000	
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: Pyrocatechol	
Commercial Name(s)	C.I. 76500; Durafur developer C; Fouramine PCH; Fouramine C	CI#	Not available.	
Synonym	Catechol; 1,2-Dihydroxybenzene; Pyrocatechin; 2-Hydroxyphenol; Benzene, o-dihydroxy-; o-Benzenediol; o-Dihydroxybenzene; o-Dioxybenzene; o-Diphenol; o-Hydroquinone; o-Hydroxyphenol; o-Phenylenediol; Oxyphenic acid; Phthalhydroquinone; Pyrocatechine; Pyrocatechin		IN CASE OF EMERGENCY CHEMIREC (24hr) 800-424-9300	
Chemical Name	1,2-Benzenediol			
Chemical Family	Not available.	CALL (310) 516	6-8000	
Chemical Formula	C6H6O2			
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248			

Secuon 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) Pyrocatechol		120-80-9	20			100
Toxicological Data on Ingredients	<b>Pyrocatechol</b> : ORAL (LD50): DERMAL (LD50):	Acute: 260 mg/kg [Rat Acute: 800 mg/kg [Rat		a pig]. 260 mg/kg	[Mouœ].	

Pyrocatechol

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Section 3. Hazards Identification			
Potential Acute Health Effects	Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion. Slightly hazardous in case of inhalation.		
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Classified A3 (Proven for animal.) by ACGIH, 2B (Possible 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. The substance may be toxic to blood, kidneys. Repeated or prolonged exposure to the substance can produce target organs damage.		

## 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. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
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. Seek medical attention.
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 dothing 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	510°C (950°F)
Flash Points	CLOSED CUP: 127.22°C (261°F). OPEN CUP: 136.67°C (278°F).
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.
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.

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Section 6. Accidental F	Release Measures		
Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container.		
Large Spill	Use a shovel to put the material into a convenient waste disposal container. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.		
Section 7. Handling ar	nd Storage		
Precautions	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.		
Storage	Keep container tightly closed. Keep container in a Store in light-resistant containers.	ı cool, well-	ventilated area. Oxygen Sensitive Sensitive to light.
Section 8. Exposure C	ontrols/Personal Protection		
Engineering Controls			engineering controls to keep airborne levels below ust, fume or mist, use ventilation to keep exposure to
Personal Protection	Splash goggles. Lab coat. Dust respirator. Be sure	to use an a	pproved/certified respirator or equivalent. Gloves
Personal Protection in Case of a Large Spill	Splash goggles Full suit. 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	TWA: 20 (mg/m <sup>3</sup> ) from OSHA (PEL) [United States] TWA: 5 (ppm) from OSHA (PEL) [United States] TWA: 20 (mg/m <sup>3</sup> ) from NIOSH [United States] TWA: 5 (ppm) from NIOSH [United States] TWA: 23 (mg/m <sup>3</sup> ) [United Kingdom (UK)] TWA: 5 (ppm) [United Kingdom (UK)] TWA: 5 (ppm) from ACGIH (TLV) [United States]		
	Consult local authorities for acceptable exposure limits.		
Section 9. Physical and	d Chemical Properties		
Physical state and appearance	Solid. (Crystalline solid.)	Odor	Slight.
Molecular Weight	110.11 g/mole	Taste	Sweet. Bitter.
pH (1% soln/water)	Not available.	Color	Colorless.
Boiling Point	245.5°C (473.9°F)		
Melting Point	105°C (221°F)		
Critical Temperature	Not available.		
Specific Gravity	1.344 (Water = 1)		
Vapor Pressure	Not applicable.		
Vapor Density	3.79 (Air = 1)		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	The product is more soluble in oil; log(oil/water) = 0	.9	
Ionicity (in Water)	Not available.		

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Dispersion Properties	See colubility in water, diethyl ether.
Solubility	Soluble in cold water, diethyl ether.
Section 10. Stability a	nd Reactivity Data
Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	Excess heat, incompatible materials, light, air/oxygen
Incompatibility with various substances	Reactive with oxidizing agents.
Corrosivity	Non-corrosive in presence of glass.
Special Remarks on Reactivity	Sensitive to light. Oxygen sensitive. Incompatible with Nitric acid. May discolor on exposure to light or air.
Special Remarks on Corrosivity	Not available.
Polymerization	Will not occur.
Section 11. Toxicologi	cal Information
Routes of Entry	Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 210 mg/kg [Guinea pig]. Acute dermal toxicity (LD50): 800 mg/kg [Rabbit].
Chronic Effects on Humans	CARCINOGENIC EFFECTS: Classified A3 (Proven for animal.) by ACGIH, 2B (Possible for human.) by IARC. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. May cause damage to the following organs: blood, kidneys.
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of ingestion. Slightly hazardous in case of inhalation.
Special Remarks on Toxicity to Animals	Lethal Dose Conc/50% Kill: LD50[Dog] - Route: Oral; Dose: 130 mg/kg
Special Remarks on Chronic Effects on Humans	May affect genetic material (mutagenic). May cause cancer. May cause adverse reproductive effects based on animal test data.
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: Causes skin irritation. It can be absorbed through the skin. Harmful if absorbed through the skin. May cause eczematous dermatitis Eyes: Causes eye irritation. Inhalation: Can cause respiratory tract irritation. May cause coughing, burning sensation in throat and lungs Ingestion: Harmful if swallowed. May cause nausea, vomiting, headaches, difficulty breathing. May affect the liv and kidneys, behavior/central nervous system (CNS depression, tremors, muscle twitching, dizziness, convulsions cardiovascular system (rise in blood pressure), blood (blood dyscrasias, leukopenia, anemia). May also interfere wi the ability of the blood to carry oxygen (methemoglobinemia) causing headache, dizziness, and a blue color to the skin and lips.

Section 12. Ecologica	I Information
Ecotoxicity	Ecotoxicity in water (LC50): 9.2ppm 96 hours [Fish (Fathead minnow)].
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	Waste must be disposed of in accordance with federal, state and local environmental control regulations.	

Section 14. Transport Information		
DOTClassification	CLASS 6.1: Poisonous material.	
Identification	: Toxic solid, organic, n.o.s. (Pyrocatechol) UNNA: 2811 PG: III	
Special Provisions for Transport	Not available.	
DOT (Pictograms)	HANNEL Brannel Brannel	

CB4A: Hiszadasky definition of Hazard Communication Standard (25: CR H30 11200).         EHECS: This product in on the European Inventory of Existing Commends Commends (ENECS No. 204427-5).         Carraia: Listed on Canadian Dometic Statance List (DS.).         Orine: Listed on National Inventory (FCD).         Philippines. Listed on National Inventory (FCD).         Differ Classifications         WILMIS (Canada)         Query Canadas and advances of faces (TOXIC).         Query Classifications         WILMIS (Canada)         Previous (Participantial Content of the effects (TOXIC).         Query Classifications         Participantial Content of the effects (TOXIC).         Query Classifications         Query Classifications         Previous (Participantial Content of the effects (TOXIC).         Query Classification (LIS.A.)         Previous (Participantial Content of the effects (TOXIC).         Query Classification (LIS.A.)         Previous (Participantial Content of the effects (TOXIC).         Query Classis (Partin Content of the effect of the effect of the e	Pyrocatechol				Page Number: 6
CLASS D28: Material causing other toxic effects (TOXIC).         DSCL (B2C)       RC1/22- Parmful in contact with sin and if Section (U.S.A.)       S22-D on breadmed dust.		EINECS: This produce 204-427-5). Canada: Listed on Ca China: Listed on Nati Japan: Listed on Nati Korea: Listed on Nati Philippines: Listed or	ct is on the European Inventory of Existin anadian Domestic Substance List (DSL). ional Inventory. ional Inventory (ENCS). ional Inventory (KECI). in National Inventory (PICCS).		Substances (EINECS No.
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Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.	Protective Equipment	Glove	295		
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Section 16. Other Information

MSDS Code	P4870			
References	Not available.			
Other Special Considerations	Major Uses as an antioxidant in rubber, chemical, photographic, dye, fat and oil industries; anti-fungal preservative for treating seed potato pieces			
Validated by Sonia Owen on 3/4/2009.		Verified by Sonia Owen. Printed 3/16/2009.		

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.