



Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
3 _{COR}	Health Hazard 3 Fire Hazard 2	
	Reactivity	See Section 15.

Section 1. Chemical Product and Company Identification			Page Number: 1	
Common Name/ Trade Name	Para-Cresol	Catalog Number(s).	C1369	
		CAS#	106-44-5	
Manufacturer	SPECTRUM CHEMICAL MFG. CORP.	RTECS	GO5950000	
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: Para-Cresol	
Commercial Name(s)	Not available.	CI#	Not available.	
Synonym	1,4-Dihydroxybenzene	DI GLEE	E EL CED CENCY	
Chemical Name			<u>PF EMERGENCY</u> CC (24hr) 800-424-9300	
Chemical Family	Not available.	CALL (310)	516-8000	
Chemical Formula	C7H8O			
Supplier	SPECTRUM CHEMICAL MFG. CORP. 14422 S. SAN PEDRO STREET GARDENA, CA 90248			

Section 2.compos	ition and Information	on ingredients		Exposure Limits		
Name		CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
1) {Para-}Cresol		106-44-5	22			100
Toxicological Data on Ingredients	Para-Cresol: ORAL (LD50): DERMAL (LD50): VAPOR (LC50):	Acute: 207 mg/k Acute: 301 mg/k Acute: 355,5 ppr		[Mouse].		

Section 3. Hazards Identification

Potential Acute Health Effects

Very hazardous in case of skin contact (corrosive, irritant), of ingestion. Hazardous in case of skin contact (sensitizer, permeator), of eye contact (irritant), of inhalation. The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death.

Continued on Next Page

Para-Cresol	Page Number: 2
Potential Chronic Health Effects	Very hazardous in case of skin contact (corrosive, irritant), of ingestion. Hazardous in case of skin contact (sensitizer, permeator), of eye contact (irritant), of inhalation. CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section 4. First A	id Measures
Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.
Skin Contact	If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical got on the victim's exposed skin, such as the hands: 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. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate 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. 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	Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. 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.
Serious Ingestion	Not available.

Section 5. Fire and E.	Section 5. Fire and Explosion Data		
Flammability of the Product	May be combustible at high temperature.		
Auto-Ignition Temperature	559°C (1038.2°F)		
Flash Points	CLOSED CUP: 86°C (186.8°F).		
Flammable Limits	LOWER: 1%		
Products of Combustion	These products are carbon oxides (CO, CO2).		
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.		

Para-Cresol	Page Number: 3
Section 6. Acci	dental Release Measures
Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container.
Large Spill	Corrosive solid. Stop leak if without risk. If the product is in its solid form: Use a shovel to put the material into a convenient waste disposal container. If the product is in its liquid form: Do not get water inside container. Absorb with an inert material and put the spilled material in an appropriate waste disposal. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal. Be careful that the product is not present at a concentration

Section 7. Handling and Storage		
Precautions	Keep container dry. 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 breathe dust. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes	
Storage	Keep container dry. Keep in a cool place. Ground all equipment containing material. Corrosive materials should be stored in a separate safety storage cabinet or room.	

level above TLV. Check TLV on the MSDS and with local authorities.

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	Splash goggles. Lab coat. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
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	TWA: 5 (ppm) TWA: 22 (mg/m³)
	Consult local authorities for acceptable exposure limits.

Physical state and appearance	Solid.	Odor	Characteristic. (Strong.)
J			, ,
Molecular Weight	108.13 g/mole	Taste	Not available.
pH (1% soln/water)	Not available.	Color	White.
Boiling Point	201.9°C (395.4°F)		
Melting Point	34.8°C (94.6°F)		
Critical Temperature	Not available.		
Specific Gravity	1.035 (Water = 1)		
Vapor Pressure	Not applicable.		
Vapor Density	3.72 (Air = 1)		
Volatility	Not available.		
Odor Threshold	0.1 ppm		
Water/Oil Dist. Coeff.	The product is equally soluble in oil and w	ater; log(oil/water) =	= 0
Ionicity (in Water)	Not available.		
Dispersion Properties	See solubility in water, methanol, diethyl e	ether.	

Continued on Next Page

Para-Cresol		Page Number: 4
Solubility	Soluble in methanol, diethyl ether. 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 substances	Not available.	
Corrosivity	Non-corrosive in presence of glass.	
Special Remarks on Reactivity	Not available.	
Special Remarks on Corrosivity	Not available.	
Polymerization	No.	

Section 11. Toxicological Information		
Routes of Entry	Dermal contact. Eye contact. Inhalation. Ingestion.	
Toxicity to Animals	WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 207 mg/kg [Rat]. Acute dermal toxicity (LD50): 301 mg/kg [Rabbit]. Acute toxicity of the vapor (LC50): 355.5 ppm 4 hour(s) [Rat].	
Chronic Effects on Humans	Not available.	
Other Toxic Effects on Humans	Very hazardous in case of skin contact (corrosive, irritant), of ingestion. Hazardous in case of skin contact (sensitizer, permeator), 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. 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.	

Para-Cresol Page Number: 5

Section 13. Disposal Considerations

Waste Disposal

Section 14. Transport Information

DOT Classification CLASS 6.1: Poisonous material.

Identification : Cresol : UN2076 PG: II

Special Provisions for

Transport

Marine Pollutant

DOT (Pictograms)



Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations Pennsylvania RTK: Para-Cresol Massachusetts RTK: Para-Cresol TSCA 8(b) inventory: Para-Cresol

SARA 313 toxic chemical notification and release reporting: Para-Cresol

CERCLA: Hazardous substances.: Para-Cresol

California

Proposition 65 Warnings

Other Regulations

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications

WHMIS (Canada) CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC). CLASS E: Corrosive solid.

DSCL (EEC)

R22- Harmful if swallowed. R23- Toxic by inhalation. R34- Causes burns.

R43- May cause sensitization by skin

contact.

HMIS (U.S.A.)



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

Health



WHMIS (Canada) (Pictograms)





DSCL (Europe) (Pictograms)



Para-Cresol	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.



Splash goggles.

Section 16. Other Information		
MSDS Code	C4773	
References	Not available.	
Other Special Considerations	Not available.	
Validated by Sonia Owen on 8/11/2006.		Verified by Sonia Owen. Printed 9/11/2006.

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.