



## **Material Safety Data Sheet**

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

Section 1. Chemical Product and Company Identification			Page Number: 1
Common Name/ Trade Name	Chloranilic Acid	Catalog Number(s)	C2151
		CAS#	87-88-7
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RTECS	DK4005000
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: Chloranilic Acid
Commercial Name(s)	Not available.	CI#	Not available.
Synonym	2,5-Dichloro-3,6-hydroxy-1,4-benzoquinone	DI CASE	OF EMEDICENON
Chemical Name	Chloranilic Acid		OF EMERGENCY REC (24hr) 800-424-9300
Chemical Family	Not available.	CALL (310	0) 516-8000
Chemical Formula	C6-H2-Cl2-O4		
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248	<u>-</u>	

Section 2.Composition and Information on Ingredients						
				Exposure Limits		
Name		CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
1) Chloranilic Acid		87-88-7				100
Toxicological Data on Ingredients	Chloranilic Acid: ORAL (LD50):	Acute: >500 mg	g/kg [Rat].			

# Potential Acute Health Effects 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.

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Section 4. First A	id 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. WARM water MUST 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. 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	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.	
<b>Serious Ingestion</b>	Not available.	

Section 5. Fire and Explosion Data		
Flammability of the Product	May be combustible at high temperature.	
<b>Auto-Ignition Temperature</b>	Not available.	
Flash Points	CLOSED CUP: Higher than 93.3°C (200°F).	
Flammable Limits	Not available.	
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO2), halogenated compounds.	
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of open flames and sparks, of heat. 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.  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.	

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Section 7. Handling and Storage		
Precautions	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. 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. Avoid contact with skin and eyes. 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).	

Section 8. Exposure Controls/Personal Protection		
<b>Engineering Controls</b>	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.	
<b>Personal Protection</b>	Splash goggles. Lab coat. 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. 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.	
<b>Exposure Limits</b>	Not available.	

Section 9. Physical a	nd Chemical Properties		
Physical state and appearance	Solid. (Powdered solid.)	Odor	Not available.
Molecular Weight	Not available.	Taste	Not available.
pH (1% soln/water)	Not available.	Color	Red. Orange.
<b>Boiling Point</b>	Not available.		
Melting Point	283°C (541.4°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.		
<b>Dispersion Properties</b>	See solubility in water.		
Solubility	Soluble in hot water.		

Section 10. Stability and Reactivity Data	
Stability	The product is stable.
Instability Temperature	Not available.
<b>Conditions of Instability</b>	Excess heat, incompatible materials
Incompatibility with various substances	Reactive with oxidizing agents.

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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.	
<b>Toxicity to Animals</b>	Acute oral toxicity (LD50): >500 mg/kg [Rat].	
<b>Chronic Effects on Humans</b>	Not available.	
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), 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: Causes skin irritation. Eyes: Dust causes eye irritation. May cause chemical conjunctivitis. Inhalation: Causes respiratory tract irritation. Can produce delayed pulmonary edema. Ingestion: May cause gastrointestinal tract irritation with nausea, vomiting, diarrhea. Chronic Potential Health Effects: Effects may be delayed The toxicological properties of this substance have not been fully investigated.	

Section 12. Ecological Information		
Ecotoxicity	Not available.	
BOD5 and COD	Not available.	
<b>Products of Biodegradation</b>	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 as toxic as 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.

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Section 14. Transport Information				
<b>DOT Classification</b>	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 Federal and State TSCA 8(b) inventory: Chloranilic Acid Regulations California Proposition 65 Warnings **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) R22- Harmful if swallowed. S2- Keep out of the reach of children. R36/37/38- Irritating to eyes, S24/25- Avoid contact with skin and eyes. respiratory system and skin. S46- If swallowed, seek medical advice immediately and show this container or label. Health Hazard **HMIS (U.S.A.)** 2 **National Fire Protection** Flammability Association (U.S.A.) Fire Hazard 1 Health Reactivity Reactivity 0 Specific hazard Personal Protection $\mathbf{E}$ WHMIS (Canada) (Pictograms) **DSCL** (Europe) (Pictograms) TDG (Canada) (Pictograms) ADR (Europe) (Pictograms)

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**Protective Equipment** 



Gloves.



Lab coat.



Dust respirator. Be sure to use an approved/certified respirator or equivalent.



Splash goggles.

Section 16. Other Information		
MSDS Code	C4005	
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.