

MATERIAL SAFETY DATA SHEET

LaMOTTE COMPANY
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1. PRODUCT IDENTIFICATION

Cobalt Chloride Solution
Stock sol'n, red for phosphate

Code Nr. **2399**

2. HAZARDOUS INGREDIENTS

NAME	CAS #	TSCA #	%	PEL	TLV
^ Cobalt Chloride, hexahydrate	7791-13-1	7646-79-9	47	0.1 mg/cubic m Co metal	0.02 mg/cubic m Co compnds
^ Hydrochloric Acid	7647-01-0		3 - 4	C 7 mg/cubic m	C 5 ppm

3. NON-HAZARDOUS INGREDIENTS EXCEPT WATER (7732-18-5)

NAME	CAS #	%
Water to 100%		

4. PHYSICAL DATA

Appearance: Red Liquid			
Solubility in Water: soluble	Odor: None	Boiling Point: >100 deg C	Melt. Point: N/A
Vapor Pressure: Unknown	Vapor Density: Unknown	pH: 1	

5. FIRE AND EXPLOSION DATA

Flash Point (method used) N/A	Flammable Limit: LEL: N/A	UEL: N/A	
Extinguishing Media: Suitable for adjacent material			
HMIS Hazard: Health - 2	Flammability - 0	Reactivity - 0	Scale: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Least
Special Fire Fighting Procedures: N/A			
Unusual Fire & Explosion Hazard: N/A			

6. REACTIVITY DATA

Stability: <input checked="" type="checkbox"/> Stable	Conditions to avoid: Temperatures greater than 194 degrees F.
<input type="checkbox"/> Unstable	Incompatibility (Materials to avoid): Metals, strong bases
	Hazardous Decomposition Products: Emits toxic chlorides & cobalt fumes if heated to decomposition

7. HEALTH HAZARD DATA

Toxicity: orl rat LD50:80 mg/kg for cobalt chloride; 766 mg/kg for cobalt chloride, hexahydrate	
Primary Route of Entry: <input checked="" type="checkbox"/> Inhalation <input checked="" type="checkbox"/> Skin <input checked="" type="checkbox"/> Ingestion <input type="checkbox"/> N/A	Carcinogenicity: <input type="checkbox"/> None <input type="checkbox"/> NTP <input type="checkbox"/> OSHA <input checked="" type="checkbox"/> IARC
Other Health Related Comments: Cobalt:carcinogen,lab animals-possibly in humans(IARC 2B);investigated as mutagen, tumorigen, reproductive effector	
Target Organs: Heart, Kidney, Liver, Lungs, Skin, Thyroid,	
Signs and symptoms of exposure: Harmful if swallowed or inhaled. May irritate eyes, skin, respiratory system. Ingestion causes nausea, vomiting.	
Medical Condition Aggravated by Exposure: Eye, skin, liver, or lung problems.	

8. EMERGENCY FIRST AID PROCEDURES

Eye Contact: Flush with water for 15 minutes. Get prompt medical attention.
Ingestion: Induce vomiting. Get prompt medical attention.
Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen.
Skin Contact: Wipe off excess, then flush with water for 15 min. Remove affected clothing and wash skin w/ soap & water.

9. SPILL AND DISPOSAL PROCEDURES

Spill and Leak: Mop up, neutralize with sodium bicarbonate or soda ash, & flush to drain with excess water.
Disposal: Small quantity: Neutralize & flush to drain. Large quantity: Dispose of as hazardous waste, according to federal, state, and local regulations.

10. PRECAUTIONARY MEASURES

In Handling: <input checked="" type="checkbox"/> Gloves <input checked="" type="checkbox"/> Eye Protection <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Other: Lab coat
Ventilation <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Mechanical <input type="checkbox"/> Respiratory Protection
Work/Hygiene Practices: May cause dermatitis; wash after handling.

11. SPECIAL PRECAUTIONS

Avoid contact with eyes, skin, or clothing.

DATE: 11/29/04

The above information is believed to be correct but does not claim to be all inclusive and should be used only as a guide.

^ This is a toxic chemical subject to reporting requirements of section 313 of EPCRA and 40CFR372.