



Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
200	Health Hazard 2 Fire Hazard 0	
	Reactivity	See Section 15.

Section 1. Chemical Product and Company Identification			Page Number: 1	
Common Name/ Trade Name	Cobalt Bromide	Catalog Number(s).	C1079	
		CAS#	7789-43-7	
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RTECS	GF9595000	
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: Cobalt Bromide	
Commercial Name(s)	Not available.	CI#	Not available.	
Synonym	Cobalt dibromide; Cobaltous bromide	-	- IN CASE OF EMERGENCY	
Chemical Name	Cobalt (II) Bromide		(24hr) 800-424-9300	
Chemical Family	Not available.	CALL (310) 5	6-8000	
Chemical Formula	CoBr2			
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248			

Section 2.Composition and Information on Ingredients						
				Exposure Limits		
Name		CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
1) Cobalt Bromide		7789-43-7	0.1			100
Toxicological Data on Ingredients	Cobalt Bromide: ORAL (LD50):	Acute: 406 mg/kg [Ra	nt].			

Section 3. Hazards Identification		
Potential Acute Health Effects	Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.	
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Classified A3 (Proven for animal.) by ACGIH. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.	

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 if irritation occurs.
Skin Contact	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.
Serious Skin Contact	Not available.
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.
Serious Ingestion	Not available.

Section 5. Fire and Explosion Data		
Flammability of the Product	Non-flammable.	
Auto-Ignition Temperature	Not applicable.	
Flash Points	Not applicable.	
Flammable Limits	Not applicable.	
Products of Combustion	Not available.	
Fire Hazards in Presence of Various Substances	Not applicable.	
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	Not applicable.	
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. 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 and Storage		
Precautions	Do not ingest. Do not breathe dust. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, metals.	
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. Hygroscopic	

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. 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.	
Exposure Limits	TWA: 0.02 (mg(Co)/m³) from ACGIH (TLV) [United States] TWA: 0.1 (mg(Co)/m³) from OSHA (PEL) [United States] TWA: 0.1 (mg(Co)/m³) [United Kingdom (UK)] TWA: 0.02 (mg(Co)/m³) [Canada]	
	Consult local authorities for acceptable exposure limits.	

Section 9. Physical and Chemical Properties			
Physical state and appearance	Solid. (Granular solid.)	Odor	Not available.
Molecular Weight	218.75 g/mole	Taste	Not available.
pH (1% soln/water)	Not available.	Color	Green.
Boiling Point	Not available.		
Melting Point	678℃ (1252.4 뚜)		
Critical Temperature	Not available.		
Specific Gravity	4.909 (Water = 1)		
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.		
Dispersion Properties	See solubility in water, methanol, diethyl ether.		
Solubility	Soluble in cold water, hot water, methanol, diethyl 66.7 g/100 cc water at 59 deg. C; 681. g/100 cc water Solubility in Methanol: 58.6 g/100 cc methanol at 3 Solubility in Ethanol: 77.1 g/100 cc ethanol at 20 degrees at 20 degrees	er at 97 deç 30 deg. C.	oility in Water: 112parts/100 parts water at 20 deg. C.; g. C.

Section 10. Stability and Reactivity Data		
The product is stable.		
Not available.		
Incompatible materials		
Reactive with oxidizing agents, metals.		
Not available.		
Incompatible with alkali metals (potassium, sodium, etc.)		
Not available.		
Will not occur.		

Polymerization	Will not occur.		
Section 11. Toxicological Information			
Routes of Entry	Inhalation. Ingestion.		
Toxicity to Animals	Acute oral toxicity (LD50): 406 mg/kg [Rat].		
Chronic Effects on Humans	CARCINOGENIC EFFECTS: Classified A3 (Proven for animal.) by ACGIH.		
Other Toxic Effects on Humans	Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), 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: May cause skin irritation. May cause dematitis, an allergic reaction. Eyes: May cause eye irritation. Inhalation: May cause respiratory tract irritation with coughing, shortness of breath, decreased pulmonary function, dematitis. Ingestion: Harmful if swallowed. May cause abdominal pain, vomiting, hypermotility, diarrhea, anorexia/weight loss, flushing, rash, tinnitus and nerve deafness, hyperglycemia. May affect the cardiovascular system (vasodilation, hypotension), blood (polycythemia), behavior/central nervous system/nervous system (CNS depression, headache, ataxia, tremor, fatigue, disorientation, confusion, agitation, aggression, hallucinations, somnolence, convulsions, paralysis), urinary system (Kidneys - renal failure, anuria), liver. Chronic Potential Health Effects Ingestion: Prolonged or repeated ingestion may decrease thyroid function and cause development of goiter. It may affect the cardiovascular system (increased heart rate, hypotension), and blood/bone marrow (changes in blood lipids, hyperplasia of bone marrow).		

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 less toxic than the product itself.					
Special Remarks on the Products of Biodegradation	Not available.					

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Section 13. Disposal Considerations

Vaste Disposal Waste must be disposed of in accordance with federal, state and local environmental control

regulations.

Section 14. Transport Information

DOT Classification Not a DOT controlled material (United States).

Not applicable. **Identification**

Special Provisions for Transport

Not applicable.

DOT (Pictograms)



Section 15. Other Regulatory Information and Pictograms

Federal and State

Connecticut hazardous material survey.: Cobalt Bromide Regulations

Illinois toxic substances disclosure to employee act: Cobalt Bromide

Illinois chemical safety act: Cobalt Bromide New York release reporting list: Cobalt Bromide

Pennsylvania RTK: Cobalt Bromide Massachusetts RTK: Cobalt Bromide Massachusetts spill list: Cobalt Bromide

New Jersey: Cobalt Bromide New Jersey spill list: Cobalt Bromide Louisiana spill reporting: Cobalt Bromide TSCA 8(b) inventory: Cobalt Bromide

SARA 313 toxic chemical notification and release reporting: Cobalt (Listed as Cobalt and Cobalt compounds)

CERCLA: Hazardous substances.: Cobalt Bromide: 1000 lbs. (453.6 kg)

California **Proposition 65 Varnings**

California prop. 65. This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found.

California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.

Other Regulations

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

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No.

232-266-7).

Canada: Listed on Canadian Non-Domestic Substance List (NDSL).

China: Not listed on National Inventory. Japan: Listed on National Inventory (ENCS). Korea: Listed on National Inventory (KECI). Philippines Listed on National Inventory (PICCS).

Australia: Listed on AICS.

Other Classifications

CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). WHMIS (Canada)

R22- Harmful if swallowed. S36/37- Wear suitable protective clothing and DSCL (EEC) R40- Limited evidence of a gloves.

carcinogenic effect. \$46- If swallowed, seek medical advice immediately and show this container or label.

HMIS (U.S.A.)

Health Hazard	2
Fire Hazard	0
Reactivity	0
Personal Protection	(E)

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

Health



Cobalt Bromide				Page Number: 6		
WHMIS (Canada) (Pictograms)						
DSCL (Europe) (Pictograms)						
TDG (Canada) (Pictograms)						
ADR (Europe) (Pictograms)						
Protective Equipmen		Gloves				
		Lab coat.				
		Dust respirator. Be sur approved/certified resp Wear appropriate respi s inadequate. Safety glasses	e to use an oirator or equivalent. rator when ventilation			
	$\nabla \sigma$					
Section 16. Other Information						
MSDS Code	C0573					
References	Not available.					
Other Special Considerations	Major Uses: in hygrometers; as catalyst for organic reactions					
Validated by Sonia Owen on 6/24/2009.			Verified by Sonia Owen. Printed 6/24/2009.			

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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.