Cobalt Chloride, 6-Hydrate

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Section 1

Product Description

Product Name: Recommended Use: Synonyms: Distributor: Cobalt Chloride, 6-Hydrate Science education applications Cobalt (II) cloride, hexahydrate: cobalt dichloride Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;



Section 2



Toxic if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. May cause cancer. Very toxic to aquatic life.

GHS Classification:

Skin Corrosion/Irritation Category 1A, Serious Eye Damage/Eye Irritation Category 1, Skin Sensitisation Category 1, Carcinogenicity Category 1B, Reproductive Toxicity Category 1B, Hazardous to the aquatic environment - Acute Category 1, Acute Toxicity - Oral Category 3, Acute Toxicity - Dermal Category 5

Other Safety Precautions:

IF exposed or concerned: Get medical advice/attention.

Section 3	Section 3 Composition / Information on Ingredients					
<u>Chemical Name</u> Cobalt (II) Chloride, 6	3-hydrate	<u>CAS #</u> 7791-13-1	<u>%</u> 100			
Section 4		First Aid Measures				
Emergency and First Aid Procedures						
Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.					
Eyes:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy					
Skin Contact:	to do. Continue rinsing. IF ON SKIN: Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated					
clothing. Wash contaminated clothing before reuse. IF ON SKIN (or hair): Remove/Take off immed						
	contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.					
Ingestion:	IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.					
Section 5		irefighting Procedures				

Extinguishing Media: Fire Fighting Methods and Protection: Use media suitable to extinguish surrounding fire.

Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus. N/A

Fire and/or Explosion Hazards:

Hazardous Combustion Products:

Carbon dioxide, Carbon monoxide, Hydrogen chloride

Section 6	Spill or Leak Procedures	

Steps to Take in Case Material Is Released or Spilled: Environmental Precautions: Avoid the generation of dusts during clean-up.

Do not allow the spilled product to enter public drainage system or open waterways. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Collect spillage.

Section 7

Handling and Storage

Handling:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do no eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. Store in a secure area suitable for toxic material.

Storage: Store locked up. Keep container tightly closed in a cool, well-ventilated place.

Storage Code: White - Corrosive. Separate acids from bases; separate oxidizer acids from organic acids.

Section 8

Protection Information

<u>Chemical Name</u> Cobalt (II) Chloride, 6-hydrate	ACGIH (TWA) 0.02 mg/m3 TWA (as Co)	l (STEL) N/A	<u>OSHA</u> (TWA) N/A	<u>PEL</u> (STEL) N/A	
Control Parameters					
Engineering Measures:	Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.				
Personal Protective Equipment (PPE):					
Respiratory Protection:					
	respirator if general room				
Respirator Type(s):	NIOSH approved air purifying respirator with dust/mist filter.				
Eye Protection:	Wear safety glasses with side shields and a Face shield				
Skin Protection:	Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.				
Gloves:	Nitrile				

Section 9

Formula: CoCl2 * 6H20 Molecular Weight: 237.93 g/mol Appearance: Odor: No data available Odor Threshold: No data available pH: No data available Melting Point: No data available Boiling Point: No data available Flash Point: No data available Flammable Limits in Air: N/A

Physical Data

Vapor Pressure: 40 mmHg at 770 °C Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: 1.92 Solubility in Water: Slightly Soluble Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: 0% (21 °C)

Section 10

Reactivity: Chemical Stability:

Reactivity Data

No data available Stable under normal conditions.

Conditions to Avoid: Hazardous Decomposition Products: Hazardous Polymerization:

Section 11

None known. Hydrogen chloride, Carbon dioxide, Carbon monoxide Will not occur

Toxicity Data

No data No data

No data

No data

No data

Acute Toxicity: Chemical Name Cobalt (II) Chloride, 6-hydrate 7		CAS Number 7791-13-1	Oral LD50 Oral LD50 GUINEA PIG 55 mg/kg Oral LD50 Mouse 80 mg/kg Oral LD50 Rat 766 mg/kg	Dermal LD50 Dermal LD50 Rat > 2000 mg/kg	Inhalation LC50 Not determined	
Carcinogenicity: Chemical Name Cobalt (II) Chloride, 6-hy	/drate	CAS Number 7791-13-1	IARC Listed	NTP Not listed	OSHA Listed	
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	No evidence of a mutagenic effect. No evidence of a teratogenic effect (birth defect). Evidence of a sensitization effect. No evidence of negative reproductive effects. ts: See Section 2 Tests on laboratory animals indicate material may produce adverse mutagenic and reproductive effects., Mutation data cited., Reproductive data cited., Tumorigenic data cited.					

Section 12

Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects:

This material is not expected to be harmful to the ecology.

Chemical Name Cobalt (II) Chloride, 6-hydrate CAS Number Eco To 7791-13-1 Not ava Aquatio

Eco Toxicity Not available Aquatic EC50 (48h) Daphnia = 1.1 - 1.6 MG/L Aquatic EC50 (48h)

Disposal Information

Ecological Data

Disposal Methods:

Section 13

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. Not Determined

Waste Disposal Code(s):

Section 14

Ground - DOT Proper Shipping Name: N/A

Transport Information

Air - IATA Proper Shipping Name:

UN number: 3077 Class: 9 Packing group: III Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Cobalt dichloride hexahydrate)

Section 15	Regulatory Information					
TSCA Status:	A component (or components) of this product is not listed on the TSCA Inventory of Existing Chemical Substances. Product is for research and development use only.					
Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
No data available	7791-13-1	No	No	No	No	No
California Prop 65:		WARNING: This product contains a chemical known to the state of California to cause cancer.				

Additional Information

Revised: 09/09/2015

Section 16

Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Replaces: 08/11/2015

Glossary			
ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health