

Revision number: 2 Revision date: 06/15/2020

1. IDENTIFICATION

TCI AMERICA SAFETY DATA SHEET

Product name: Product code:	Cobalt(II) Chloride Hexahydrate C2388	
Product use: Restrictions on use:	For laboratory research purposes. Not for drug or household use.	
Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com		Emergency telephone number: Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) Responsible department: TCI America Environmental Health Safety and Security +1- 503-286-7624
2. HAZARD(S) IDENTIFICATION		
OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Acute Toxicity - Oral [Category 4] Sensitization - Respiratory [Category 1] Sensitization - Skin [Category 1] Germ Cell Mutagenicity [Category 2]	

Signal word:

Hazard Statement(s):

Danger!

Marrow Heart

Carcinogenicity [Category 2] Toxic to Reproduction [Category 1B]

Aquatic Hazard (Acute) [Category 1] Aquatic Hazard (Long-Term) [Category 1]

Harmful if swallowed May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause an allergic skin reaction Suspected of causing genetic defects Suspected of causing cancer May damage fertility or the unborn child Very toxic to aquatic life Very toxic to aquatic life with long lasting effects

Specific Target Organ Toxicity (Repeated Exposure) [Category 2]

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust, fume, mist, vapors or spray. Avoid release to the environment. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wash hands and face thoroughly after handling. Wear respiratory protection. Wear protective gloves, protective clothing, face protection.

May cause damage to organs through prolonged or repeated exposure: Respiratory System Bone

If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice or attention. Wash contaminated clothing before reuse. If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or doctor. If exposed or concerned: Get medical advice or attention. Collect spillage. Store locked up.

[Storage] [Disposal]

Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40

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None.

CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

Hazards not otherwise classified: [HNOC]

	N INGREDIENTS
Substance/mixture:	Substance
Components:	Cobalt(II) Chloride Hexahydrate
Percent:	>98.0%(T)
CAS RN:	7791-13-1
Molecular Weight:	237.92
Chemical Formula:	CoCl ₂ ·6H ₂ O
4. FIRST-AID MEASURES	
Description of first aid measures	
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention.
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Get medical advice/attention.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Ge medical advice/attention.
Ingestion:	Get medical advice/attention.Rinse mouth.
Symptoms/effects:	
Acute:	No data available
Delayed:	May cause heritable genetic damage in humans. May cause skin sensitization. Possibly carcinogenic to humans.
Indication of any immediate medical atte	ention:
Not available. Notes to physician:	
No data available	
5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.
Specific hazards arising from the chemical:	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume
Hazardous combustion products: Other specific hazards:	These products include: Halogenated compounds Metallic oxides WARNING: Highly toxic HCI gas is produced during combustion.
Advice for firefighters:	Wear self-contained breathing apparatus if possible.
6. ACCIDENTAL RELEASE MEASUR	RES
Personal precautions, protective equipment and emergency procedures:	Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.
Environmental precautions:	Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned.
Methods and materials for containment	Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected
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Methods and materials for containment and cleaning up: 7. HANDLING AND STORAGE	Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected
Methods and materials for containment and cleaning up: 7. HANDLING AND STORAGE	Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling.
Methods and materials for containment and cleaning up: 7. HANDLING AND STORAGE Precautions for safe handling: Conditions for safe storage, including ar	Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated. Avoid all contact! ny incompatibilities
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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits: ACGIH TLV(TWA): JSOH OELs(TWA):	0.02 mg/m³ 0.05 mg(Co)/m³
Appropriate engineering controls:	Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath.
Personal protective equipment	
Respiratory protection:	Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.
Hand protection:	Impervious gloves.
Eye protection:	Safety goggles. A face-shield, if the situation requires.
Skin and body protection:	Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Melting point/freezing point: 87°C (189°F) pH: No data available
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Boiling point/range: No data available Vapour pressure: No data available.
Decomposition temperature: No data available Vapour density: No data available No data available
Relative density: No data available Dynamic Viscosity: No data available
Kinematic viscosity: No data available
Log Pow: No data available Evaporation rate(Butyl No data available Acetate=1): Acetate=1):
Flash point: No data available Autoignition temperature: No data available Flammability(solid, gas): No data available Flammability or explosive limits:
Lower: No data available
Upper: No data available
Solubility(ies):
[Water] No data available
[Other solvents] No data available
10 STABILITY AND REACTIVITY

10. STABILITY AND REACTIVITY

Reactivity: Chemical stability: Possibility of hazardous reactions: Incompatible materials: Hazardous decomposition products:

No data available Stable under proper conditions. No special reactivity has been reported. Oxidizing agents, Alkali metals Hydrogen chloride **TCI AMERICA**

11. TOXICOLOGICAL INFORMATION

RTECS Number: GG0200000

Acute Toxic orl-rat LD50: ipr-rat LD50:	766 mg/kg		skn-rat LD50:>2 g/ł	kg	
Skin corros No data avai	ion/irritation: lable				
Serious eye No data avai	damage/irritation: lable				
Respiratory No data avai	or skin sensitization: lable				
Germ cell m msc-mus-mr	ntagenicity: nr 2 umol/L		slt-ham-oth 50 umc	bl/L/24H	
Carcinogen No data avai	-				
IARC:	Group 2B (Possibly carcinogenic to humans) .	NTP:	No data available	OSHA:	No data available
Reproductiv orl-mus TDL	ve toxicity: o:182 mg/kg (13W male)		ipr-mus TDLo:143 r	mg/kg (3D male)	

Target organ(s):

May cause damage to organs through prolonged or repeated exposure: Respiratory System Bone Marrow Heart

12. ECOLOGICAL INFORMATION	1	
Ecotoxicity:		
Fish:	No data available	
Crustacea:	No data available	
Algae:	No data available	
Persistence / degradability:	No data available	
Bioaccumulative potential(BCF):	No data available	
Mobility in soil		
Log Pow:	No data available	
Soil adsorption (Koc):	No data available	
Henry's Law (PaM 3/mol):	No data available	

13. DISPOSAL CONSIDERATIONS

Disposal of product:Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and
Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent
and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is
intended to provide assistance but does not replace these laws, nor does compliance in accordance
with this section ensure regulatory compliance according to the law. US EPA guidelines for
Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not
be allowed to enter the environment, drains, water ways, or the soil.Disposal of container:Dispose of as unused product. Do not re-use empty containers.
Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

DOT (US) UN number: UN3077	Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s	Class or Division: 9 Miscellaneous hazardous material	Packing Group: III
IATA_ UN number: UN3077	Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s	Class or Division: 9 Miscellaneous hazardous material	Packing Group: III
IMDG UN UN3077 numb er:	Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s	Class or Division: 9 Miscellaneous hazardous material	Packing Group: III
EmS number:	F-A, S-F		

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.): This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regu					
CERCLA Hazardous substance and Reportable Quantity:					
SARA 313:		Not Listed			
SARA 302:		Not Listed			
State Regulations	5_				
State Right-to-Kn	ow				
Massachuse	ts	Not Listed			
New Jersey		Not Listed			
Pennsylvania	1	Not Listed			
California Propos	sition 65:	Not Listed			
Other Information	า				
NFPA Rating:	_	HMIS C	lassification:		
Health:	3	Healt	th: 3		
Flammability:	0	Flam	mability: 0		
Instability:	0	Phys	sical: 0		
International Inventories					
EC-No:		231-589-4			
					

16. OTHER INFORMATION

Revision date: 06/15/2020

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TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.