

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

## 1. IDENTIFICATION

# TCI AMERICA SAFETY DATA SHEET

T. IDENTIFICATION			
Product name: Product code:	Hexaamminecobalt(III) Chloride H0051		
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: TCl 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: TCl America Environmental Health Safety and Security +1- 503-286-7624		
2. HAZARD(S) IDENTIFICATION			
OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Sensitization - Respiratory [Category 1] Sensitization - Skin [Category 1] Carcinogenicity [Category 2]		
Signal word:	Danger!		
Hazard Statement(s):	May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause an allergic skin reaction Suspected of causing cancer		
Pictogram(s) or Symbol(s):			
Precautionary Statement(s): [Prevention]	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust, fume, mist, vapors or spray. Contaminated work clothing must not be allowed out of the workplace. Wear respiratory protection. Wear protective gloves, protective clothing, face protection.		
[Response]	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.		
[Storage] [Disposal]	Store locked up. Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).		

Hazards not otherwise classified: [HNOC] None.

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Components:	Hexaamminecobalt(III) Chloride
Percent:	>99.0%(T)
CAS RN:	10534-89-1
Molecular Weight:	267.47
Chemical Formula:	H₁ଃCl₃CoN₀
Synonyms:	Luteo-cobaltic Chloride

# 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. Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Get medical advice/attention.		
Skin contact:			
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Get medical advice/attention.		
Ingestion:	Get medical advice/attention.Rinse mouth.		
Symptoms/effects:			
Acute:	Redness.		
Delayed:	No data available		
Indication of any immediate medical a	attention:		

#### 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: Nitrogen oxides 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 MEASURES

Personal precautions, protective equipment and emergency procedures: Environmental precautions: Methods and materials for containment and cleaning up:	by roping off, etc. Prevent product from entering drains.
7. HANDLING AND STORAGE	
Precautions for safe handling:	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!
Conditions for safe storage, including a	iny incompatibilities
Storage conditions:	Keep container tightly closed. Store in a cool and dark place.
	Store locked up.
	Store away from incompatible materials such as oxidizing agents.
Packaging material:	Comply with laws.
Packaging material:	Comply with laws.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits: JSOH OELs(TWA):	0.05 mg(Co)/m <sup>3</sup>
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

Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Solid Crystal - Powder Yellow - Deep yellow red No data available No data available No data available		
Melting point/freezing point:	No data available	pH:	No data available
Boiling point/range:	No data available	Vapour pressure:	No data available.
Decomposition temperature:	No data available	Vapour density:	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 Acetate=1):	No data available
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]	Soluble		
[Other solvents]	No data available		

## 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 Nitrogen oxides (NOx), Hydrogen chloride

# 11. TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available			
Skin corrosion/irritation: No data available			
Serious eye damage/irritation: No data available			
Respiratory or skin sensitization: No data available			
Germ cell mutagenicity: No data available			
Carcinogenicity: No data available			
IARC: Group 2B (Possibly carcino to humans) .	genic NTP: No data available OSHA: No data available		
Reproductive toxicity: No data available			
Target organ(s):	No data available		
12. ECOLOGICAL INFORMATION			
Ecotoxicity:			
Fish:	No data available		
Crustacea:	No data available		
Algae:	No data available		
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	No data available No data available		
Log Pow:	No data available		
Soil adsorption (Koc):	No data available		
Henry's Law (PaM <sup>3</sup> /mol):	No data available		
12 DISDOCAL CONSIDERATIONS			
13. DISPOSAL CONSIDERATIONS Disposal of product:	Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and		
Disposal of container:	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. Dispose of as unused product. Do not re-use empty containers.		
Other considerations:	Observe all federal, state and local regulations when disposing of the substance.		
14. TRANSPORT INFORMATION			
DOT (US)	Non-hazardous for transportation.		
IATA	Non-hazardous for transportation.		
IMDG	Non-hazardous for transportation.		

#### 15. REGULATORY INFORMATION

#### Toxic Substance Control Act (TSCA 8b.):

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

<u>US Federal Regu</u> CERCLA Hazardo SARA 313: SARA 302:	<u>lations</u> ous substance and Re	<b>portable Quantity:</b> Not Listed Not Listed		
State Regulation State Right-to-Kr Massachuse New Jersey Pennsylvania California Propos	now tts	Not Listed Not Listed Not Listed Not Listed		
Other Information NFPA Rating: Health: Flammability: Instability:	n2 0 0		HMIS Classification: Health: Flammability: Physical:	2 0 0
International Inve Canada: DSL EC-No:	entories_	On DSL 234-103-9		

#### 16. OTHER INFORMATION

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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.