

Safety Data Sheet
29 CFR 1910.1200

Section 1: Company and Product Identification**Product Name:** Palladium(pi-cinnamyl) chloride dimer**Product Code:** 5133**CAS #:** 12131-44-1

Company: Colonial Metals, Inc.
Building 20
505 Blue Ball Road
Elkton, MD 21921 United States
Company Contact: EHS Director
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www.colonialmetals.com

Emergency For Hazardous Materials [or Dangerous Goods] Incident**Response:** Spill, Leak, Fire, Exposure, or Accident

Call CHEMTREC

+1 703-741-5970 / 1-800-424-9300 CCN 5252

Section 2: Hazards Identification

GHS06

GHS05

GHS08

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Hazard Pictograms:**Signal Word:**

Danger

Hazard Category:

Serious eye damage/eye irritation Cat 1
Sensitization, resp. Cat 1
Skin corrosion/irritation Cat 2
Acute tox, inh. Cat 3

Hazard Statements:

H318: Causes serious eye damage
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled
H315: Causes skin irritation
H331: Toxic if inhaled

Precautionary Statements:

P261: Avoid breathing dust/fume/gas/mist/vapours/spray
P264: Wash thoroughly after handling
P271: Use only outdoors or in a well-ventilated area
P280: Wear protective gloves/protective clothing/eye protection/face protection
P285: In case of inadequate ventilation wear respiratory protection
P302+352: IF ON SKIN: Wash with soap and water
P304+341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P332+313: If skin irritation occurs: Get medical advice/attention
P342+311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
P362: Take off contaminated clothing and wash before reuse
P403+233: Store in a well ventilated place. Keep container tightly closed
P405: Store locked up
P501: Dispose of contents/container in accordance with local/regional/national/international rules.

Hazards not otherwise classified:

Not applicable, none known. The toxicological properties of this material have not been fully investigated. May cause irritation of the respiratory system. Maintain housekeeping and personal hygiene to minimize exposure and prevent sensitization.

Section 3: Composition / Information on Ingredients

Hazardous substance (name)	Hazard Category	CAS#	Weight %
3-Chloroprop-1-enyl)benzene	Flammable Liquid 4; Acute Toxicity 4; Acute Toxicity 1; Skin Corrosion 1B; Eye Damage 1;	2687-12-9	1-5%

Chemical Family: Platinum Group Metal Compounds Chemical Formula: C18H18Cl2Pd2 Synonyms: [(Cinnamyl)PdCl]2, Bis[cinnamyl palladium(II) chloride], [Pd(1-phenylallyl)Cl]2, Palladium(1-phenylallyl)chloride dimer	Respiratory Sensitivity 1; H227, H302., H314, H330, H334	
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Section 4: First Aid Measures

General Info: Ensure proper ventilation. Consult a physician. Show this safety data sheet to the attending physician. Move out of dangerous area.

Notable Exposure symptoms: Irritation to skin, eyes and areas of contact.

If ingested: Rinse mouth. Seek immediate medical attention. Clear the airway and administer artificial respiration if not breathing. If swallowed, do not induce vomiting unless directed to do so by medical personnel.

If inhaled: Remove the victim from the contaminated area while protecting yourself from exposure by wearing an appropriate respirator. Put a similar respirator on the victim if possible. Get medical attention.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Get medical attention if irritation develops or persists.

Skin contact: Take off immediately all contaminated clothing. Rinse with water thoroughly. Get medical advice if irritation develops or persists.

Additional Info: Observe for any symptoms for several hours after exposure. Follow up with medical attention if symptoms develop.

Section 5: Fire Fighting Measures

General Info: Product is non-combustible and acutely toxic

Extinguishing Method / Equipment: In case of fire, use water spray, dry chemical, CO2, or alcohol resistance foam.

Hazardous Decomposition Info: Constituents associated with burning / combustion are to be considered toxic. Firefighters should wear self-contained breathing apparatus and full protective gear.

In case of fire, can decompose to emit toxic chlorine gas and other hazardous decomposition products.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and procedures: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing dust. Ventilate area if easy to do so. Contact local authorities if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Containment Equipment and Procedures: Contain actively spilling material if safe and easy to do so, avoid generating dust by mixing with a combustible solvent. Collect material and dispose off using a licensed disposal company

Cleanup Procedures: Collect all contaminated media, or other cleanup materials into a waste receptacle. If cleaning surface is necessary, utilize vacuum cleaner, provided adequate ventilation is available.

Section 7: Handling and Storage

Safe Handling Precautions: Avoid contact with eyes, prolonged or repeated contact with skin. Avoid breathing dust. Use compatible chemical-resistant gloves. Wash hands thoroughly after handling.

Other Precautions: 0.01 ppm high efficiency particular respirator/supplied air respirator/self-contained breathing apparatus; 0.2 ppm same as above with full face piece; 1 ppm powdered air purifying respirator with high efficiency filter/type C supplied air respirator operated in pressure demand mode. Store in a sealed container, plastic or plastic liner, in a cool, well ventilated, dry area away from volatile acids.

Recommendations for Storage: Store under an inert atmosphere in a tightly closed product container. Do not store directly on ground. Storage class (TRGS 510): Non-combustible, acute toxic Cat. 3 / toxic hazardous material that may cause chronic effects if exposed

Incompatibilities: Store away from strong acids or oxidizing agents. Refer to Section 10.

Section 8: Exposure Control / Personal Protection

General / Local Exhaust: Required in handling area

Engineering Other: Closed Ventilation system – (Laboratory Fume Hood)

Work Clothing: Protective work clothing which covers skin and prevents exposures.

Eye/face protection: Wear safety glasses with side shields or goggles or face shield.

Skin Protection: Wear chemical resistant gloves. Dispose off gloves carefully using proper technique.

Respiratory Protection: Utilize organic vapor respirator if airborne levels are not maintained or if ventilation is inadequate.

Section 9: Physical and Chemical Properties

State: Solid	Melting Point: 218-220C	Freezing Point: N/A
Color: Yellow powder	Boiling Point/Range: N/A	pH: N/A
Molecular Wt. 518.08	Odor: None	Water Solubility: Insoluble
Evaporation rate: N/A	Flash Point: N/A	Part. Coeff (n-octanol/water): N/A
Upper Flam Limits: N/A	Lower Flam Limits: N/A	Vapor Pressure: N/A
VOC Content (lbs/gal): N/A	Viscosity: N/A	Autoignition Temp: N/A

Section 10: Stability and Reactivity

General: This product is stable and non-reactive under normal conditions of use. Product is not subject to hazardous polymerization. Avoid open flame and ignition sources.

Incompatible materials: Strong Oxidizing agents and active metals.

Decomposition products: Carbon monoxide, carbon dioxide, hydrogen chloride gas

Section 11: Toxicological Information

General Information: IARC/NTP/OSHA has determined that no component of this product at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.

Toxicological Information: Product has not been tested. Prolonged inhalation may be harmful to human health. Irritating in case of skin or eye contact. May be harmful if swallowed or in contact with skin.

Likely Routes of Exposure: Eye Contact
Skin Contact
Inhalation
Ingestion - possible, but considered unlikely.

Toxicological Information (contained substances)

Carcinogenicity or mutagenicity: The chronic toxicological properties of this compound have not been thoroughly investigated. Unrecognized hazards may be present.

Sensitization: Product is not expected to be a sensitizer.

Other Notes: Not applicable.

Section 12: Ecological Information

General information: Product not tested.

Aquatic toxicity: No specific data available. Do not allow large quantities of product to reach water, ground water, water courses or sewer systems.

Section 13: Disposal Information

Product disposal: Dispose of product in accordance with local, regional, and national regulations. Consult with waste contractor.

Container disposal: Treat empty containers with extra care. Consult waste contractor.

Other considerations: NOTE: Chemical additions, processing, or otherwise altering this material may make the waste management information presented above incomplete, inaccurate, or otherwise inappropriate

Section 14: Transport Information

DOT: UN number: 2811	Class:6.1	Packaging group: III
Proper shipping name: Toxic solids, organic, n.o.s. ((3-Chloroprop-1-enyl)benzene)		
IMO/IMDG: UN number: 2811	Class:6.1	Packaging group: III
Proper shipping name: Toxic solids, organic, n.o.s. ((3-Chloroprop-1-enyl)benzene)		
IATA: UN number: 2811	Class:6.1	Packaging group: III
Proper shipping name: Toxic solids, organic, n.o.s. ((3-Chloroprop-1-enyl)benzene)		

OTHER: Inquire for further transport information.

Section 15: Regulatory Information

TSCA: This product is not TSCA listed.

SARA 313 This product does not contain any ingredients with CAS number regulated under Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 or 40 CFR 372

Pennsylvania Right To Know Palladium(pi-cinnamyl)chloride CAS #: 12131-44- (3-Chloroprop-1-enyl)benzene CAS #: 2687-12-9
dimer 1

Canadian DSL: : All ingredients of this product comply with New Substances Notification requirements of the Canadian Environmental Protection Act (CEPA).

European Union (EU) Regulatory Information: **Hazard Symbols:** XI
Risk Phrases:
R 36/38 Irritating to eyes and skin.
Safety Phrases:
S 24/25 Avoid contact with skin and eyes.

Section 16: Other Information

NFPA Rating

Health: 4
Fire: 0
Reactivity: 0

HMIS Rating

Health: 4
Fire: 0
Reactivity: 0
Personal Protection: J

Disclaimer: In compliance with the OSHA Hazard communication Standard, 2.9 C.F.R 1910.1200, we are providing you with a Safety Data Sheet (SDS) for the hazardous material you are purchasing.

It is your responsibility to educate your employees on the safe use of the hazardous material. With this in mind, a copy should be forwarded to the supervisor of the user or to the user themselves, and copy should be retained in your files for future reference.

Colonial Metals, Inc. makes no representation as to the accuracy of the information in the SDS. The information is believe to be correct; however, you (the customer), should preform your own investigation and independent verification. If you resell the product, you are responsible to forward the information in the SDS to your customer.

Colonial Metals, Inc.

SDS Author: Colonial Metals Inc.- An Ames Goldsmith Company

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