



MATERIAL SAFETY DATA SHEET

Allylpalladium (II) Chloride Dimer

<p>NFPA</p>	<p>HMIS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #00b0f0; color: white;">HEALTH</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="background-color: #ff0000; color: white;">FLAMMABILITY</td> <td style="text-align: center;">0</td> </tr> <tr> <td style="background-color: #ffff00;">REACTIVITY</td> <td style="text-align: center;">0</td> </tr> <tr> <td>PERSONAL PROTECTION</td> <td style="text-align: center;">J</td> </tr> </table>	HEALTH	1	FLAMMABILITY	0	REACTIVITY	0	PERSONAL PROTECTION	J
HEALTH	1								
FLAMMABILITY	0								
REACTIVITY	0								
PERSONAL PROTECTION	J								

1. Product And Company Identification

<p>Supplier Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States</p> <p>Company Contact: Wayne Sher Telephone Number: 410-398-7200 FAX Number: 410-398-2918 E-Mail: wsher@colonialmetals.com Web Site: colonialmetals.com</p>	<p>Manufacturer Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States</p> <p>Company Contact: Wayne Sher Telephone Number: 410-398-7200 FAX Number: 410-398-2918 E-Mail: wsher@colonialmetals.com Web Site: colonialmetals.com</p>
<p>Supplier Emergency Contacts & Phone Number Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887</p>	<p>Manufacturer Emergency Contacts & Phone Number Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887</p>

Issue Date: 05/26/2005

Product Name: Allylpalladium (II) Chloride Dimer
CAS Number: 12012-95-2
Chemical Family: Platinum Group Metal Salts
Chemical Formula: [(C3H5) PdCl]2
MSDS Number: 5048
Product Code: 5048

Synonyms
Propenylpalladium chloride, dimer

2. Composition/Information On Ingredients

Ingredient Name	CAS Number	>	Percent Of Total Weight
Allylpalladium (II) Chloride Dimer	12012-95-2	>	99

EMERGENCY OVERVIEW

To the best of our knowledge the chemical, physical, and toxicological properties have not been thoroughly investigated. Avoid elevated temperatures. Product incompatible with organic reducing agents. May decompose chlorine vapors. Dust may be irritating to skin, eyes and respiratory tract. Harmful if swallowed.



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Hazards Identification (Pictograms)



3. Hazards Identification

Primary Routes(s) Of Entry

Eyes: Likely
Inhalation: Likely
Skin: Likely
Ingestion: Likely

Eye Hazards

(If dust) May cause mild to moderate irritation of the eyes.

Skin Hazards

May cause slight to mild irritation of the skin.

Ingestion Hazards

Ingestion may lead to dizziness, abdominal cramps, and vomiting.

Inhalation Hazards

Dust may be irritating to the nose, mucous membranes and respiratory tract.

Chronic/Carcinogenicity Effects

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

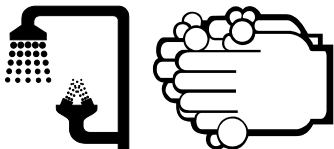
Conditions Aggravated By Exposure

May cause irritation of the respiratory system. Maintain housekeeping and personal hygiene to minimize exposure and prevent sensitization.

Conditions Aggravated By Overexposure

To the best of our knowledge, the chemical, the physical, and toxicological properties have not been thoroughly investigated.

First Aid (Pictograms)



4. First Aid Measures

Eye

Flush for 15 minutes with plenty of water. If discomfort occurs or persists, contact a physician.



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4. First Aid Measures - Continued

Skin

Flush area for 15 minutes with water and wash with soap and water. If discomfort occurs or persists, contact a physician. Remove contaminated clothing and shoes and wash before reuse.

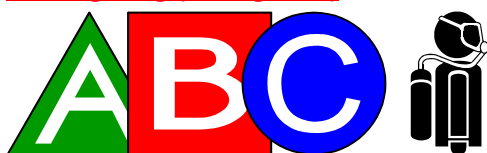
Ingestion

Not expected to be a problem in industry. However if swallowed and discomfort occurs, contact a physician.

Inhalation

Remove to fresh air immediately. If discomfort occurs or persists, contact a physician.

Fire Fighting (Pictograms)



5. Fire Fighting Measures

Flash Point Method: NA

Flammability Class: NA

Fire And Explosion Hazards

No unusual fire or explosion hazards.

Extinguishing Media

Use water spray, foam, dry chemical, carbon dioxide, or medium for primary source.

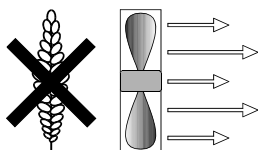
Fire Fighting Instructions

Use NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

Soak up and place in a sealed container. Person protected with full face shield and proper respirator for chlorine vapor.

Handling & Storage (Pictograms)



7. Handling And Storage

Handling And Storage Precautions

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

Handling Precautions

Handle and store material under an inert atmosphere of nitrogen or argon.



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7. Handling And Storage - Continued

Storage Precautions

Handle and store material under an inert atmosphere of nitrogen or argon.

Work/Hygienic Practices

Use good personal hygiene. Wash thoroughly after handling. Wash thoroughly with soap and water after handling.

Other Precautions

0.01 mg/m² high efficiency particular respirator/supplied air respirator/self-contained breathing apparatus; 0.2 mg/m² same as above with full face piece; 1 mg/m³ 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.

Protective Clothing (Pictograms)



8. Exposure Controls/Personal Protection

Engineering Controls

Ventilation: **Local Exhaust:** Required in handling area
Mechanical: Desirable to insure concentration of material below TLV/TWA levels
Other: NA

Eye/Face Protection

ANSI approved safety glasses/goggles

Skin Protection

Rubber/Neoprene (use compatible chemical-resistant gloves).

Respiratory Protection

Chemical cartridge respirator for dust/mist/fume/radionuclide, or self-contained breathing apparatus with full face shield.

Other/General Protection

Lab coat/apron, flame and chemical resistant protective clothing, eye wash, safety shower, and hygiene facilities for washing.

9. Physical And Chemical Properties

Appearance

Yellow crystals

Chemical Type: Mixture

Physical State: Solid

Melting Point: 120 (decomposes) °C

Boiling Point: Decomposes °C

Specific Gravity: NE

Molecular Weight: 365.86

Vapor Pressure: NA

Vapor Density: NA



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9. Physical And Chemical Properties - Continued <u>Appearance - Continued</u> pH Factor: NA Solubility: Insoluble Evaporation Rate: NA
10. Stability And Reactivity Stability: Stable Hazardous Polymerization: Will not occur <u>Conditions To Avoid (Stability)</u> None <u>Incompatible Materials</u> Oxidizing agents and active metals. <u>Hazardous Decomposition Products</u> Carbon monoxide, carbon dioxide, hydrogen chloride, organic fumes, and palladium salts. <u>Conditions To Avoid (Polymerization)</u> Will not occur.
11. Toxicological Information No Data Available...
12. Ecological Information No Data Available...
13. Disposal Considerations Consult Federal EPA, State and local regulations for proper disposal/recycle/reclamation NOTE: Chemical additions, processing, or otherwise altering this material may make the waste management information presented above incomplete, inaccurate, or otherwise inappropriate.
14. Transport Information <u>Proper Shipping Name</u> Non-Hazardous for shipping. <u>Additional Shipping Paper Description</u> IATA: Same as DOT 49 CFR regulations.
15. Regulatory Information <u>U.S. Regulatory Information</u> This product is not TSCA listed. <u>SARA Section 313 Notification</u> This product is not reportable under SARA Title 313. <u>Canadian Regulatory Information</u> This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.



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15. Regulatory Information - Continued

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.

Other International Regulations

None

DSCL - Europe (Pictograms)



16. Other Information

NFPA Rating

Health: 1

Fire: 0

Reactivity: 0

HMIS Rating

Health: 1

Fire: 0

Reactivity: 0

Personal Protection: J

Revision/Preparer Information

MSDS Preparer: Wayne Sher

MSDS Preparer Phone Number: 410-398-7200

This MSDS Supersedes A Previous MSDS Dated: 03/15/1998

Disclaimer

In compliance with the OSHA Hazard Communication Standard, 29 C.F.R 1910.1200, we are providing you with a Materials Safety Data Sheet (MSDS) 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 presentation as to the accuracy of the information in the MSDS. The information is believed to be correct; however, you (the customer), should perform your own investigation and independent verification. If you resell the product, you are responsible to forward the information in the MSDS to your customer.

Colonial Metals, Inc.