

Safety Data Sheet

29 CFR 1910.1200

Section 1: Company and Product Identification

Product Name: Ammonium Tetrachloro Palladate (II)

Product Code: 5013

Company: Colonial Metals, Inc.
 Building 20
 505 Blue Ball Road
 Elkton, MD 21921 United States
 Company Contact: EHS Director
 Telephone Number: 410-398-7200
 FAX Number: 410-398-2918
 E-Mail : info@colonialmetals.com
 Web Site: www.colonialmetals.com



www.colonialmetals.com

Emergency Response: Supplier Emergency Contacts & Phone Number

Response: Chemtrec: 800-424-9300
 World Wide - Call COLLECT to U.S: 703-527-3887

Section 2: Hazards Identification

GHS05

GHS07

BLANK

BLANK

Hazard Pictograms:



Signal Word: Danger

Hazard Category: Skin corrosion/irritation Cat 2
 Serious eye damage/eye irritation Cat 1
 Specific target organ tox, single exp. Cat 3 (resp irrit)
 Acute tox, oral Cat 4

Hazard Statements: H315: Causes skin irritation
 H318: Causes serious eye damage
 H335: May cause respiratory irritation
 H302: Harmful if swallowed

Precautionary Statements: P202: Do not handle until all safety precautions have been read and understood
 P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking
 P264: Wash thoroughly after handling
 P280: Wear protective gloves/protective clothing/eye protection/face protection
 P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
 P402+404: Store in a dry place. Store in a closed container
 P501: Dispose of contents/container in accordance with local/national/international rules.

Hazards not otherwise classified: OSHA Hazards:
 Corrosive, Irritant, Harmful if Swallowed

Section 3: Composition / Information on Ingredients

Hazardous substance (name)	Hazard Category	CAS#	Weight %
Ammonium Tetrachloro Palladate (II)	Corrosive/Irritant	13820-40-1	100%
Chemical Name: Ammonium Tetrachloro Palladate (II)			
Chemical Formula: (NH ₄) ₂ PdCl ₄			

Section 4: First Aid Measures

General Info: Ensure proper ventilation.

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

symptoms:

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 immediately.

Eye contact: Avoid eye contact. In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Immediately seek Medical help and consult a Physician

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. Note To Physician, Treat symptomatic symptoms

Section 5: Fire Fighting Measures

General Info: For small (incipient) fires, use water or other media such as alcohol-resistant foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective

Extinguishing Method / Equipment: Carbon dioxide, dry chemical powder or appropriate foam

Method / Equipment:

Hazardous Decomposition Info: Use proper safety equipment. Use NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Can decompose to emit toxic fumes.

Decomposition Info: full protective clothing. Can decompose to emit toxic fumes.

Section 6: Accidental Release Measures

Personal precautions 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: Pick up and arrange for disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

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: Handle under dry protective gas. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use only with adequate ventilation at places where dust is formed. Normal measures for preventative fire protection

Recommendations for Storage: Keep container tightly closed in a dry and well-ventilated place. Store under an inert gas. The product is hygroscopic.

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

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.

Section 8: Exposure Control / Personal Protection

General / Ventilation: Local Exhaust: Required in handling area
Engineering Mechanical: Desirable to insure concentration of material below TLV/TWA levels
Controls: Other: Closed Ventilation system with corrosive-resistant materials
 Safety shower and eyewash

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.

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9: Physical and Chemical Properties

State: Solid/Pov	Melting Point: N/A	Freezing Point: N/A
Color: Dark Green to brown	Boiling Point/Range: N/A	pH: N/A
Molecular Wt.: N/A	Odor: N/A	Water Solubility: Soluble
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
Density: 2.17 g/cm ³	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.

Conditions To Avoid (Stability): MAY DISCOLOR ON EXPOSURE TO LIGHT.

Incompatible materials: Acids, Water/Moisture

Decomposition products: Hazardous decomposition products formed under fire conditions – nitrogen oxides (NOx), Hydrogen Chloride, Ammonia, Metal Oxide Fume

Section 11: Toxicological Information

General Information: To the best of our knowledge the chemical, physical, and toxicological properties of this compound have not been thoroughly investigated.

Toxicological Information (product): Specific target organ toxicity – single exposure (GHS)

No Data Available

Toxicological Information (product): Specific target organ toxicity – repeated exposure (GHS)

No Data Available

Likely Routes of Exposure: Eye Contact

Skin Contact

Inhalation

Ingestion - possible, but considered unlikely.

Carcinogenicity or IARC: No component of this product present at levels greater than or equal to 0.1% is identified as **mutagenicity:** probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

Sensitization: Product is not expected to be a sensitizer.

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: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Consult Federal EPA, State and local regulations for proper disposal/recycle/reclamation

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: Proper Shipping Name
Ammonium Tetrachloro Palladate (II)
Hazard Class
Not Dangerous Good
DOT Identification Number
Not Dangerous Good
DOT Shipping Label
None
Packaging Requirements
None

IMO/IMDG: See regulation for information

IATA: Same as 49 CFR (DOT) regulation. Refer to IATA regulations for further shipping regulations.

Section 15: Regulatory Information

TSCA: All ingredients of this product are listed under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

SARA Hazard Classes: SARA 302 Components: SARA 302: This material does not contain any chemical components SARA Title III,

Section 302 reporting requirements.

SARA 313 Components: SARA 313: This material does not contain any chemical components with known CAS numbers that are above the threshold reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Acute Health Hazard

Right to Know Massachusetts Right To Know Components: No components are subject to the Massachusetts Right to Know act.

Pennsylvania Right To Know Components: Ammonium Tetrachloro Palladate (II), CAS #13820-40-1

New Jersey Right To Know Components: Ammonium Tetrachloro Palladate (II), CAS #13820-40-1

California Prop. 65 Components: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16: Other Information

NFPA Rating

Health: 2

Fire: 0

Reactivity: 1

HMIS Rating

Health: 2

Fire: 0

Reactivity: 1

Personal

Protection: J

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 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 MSDS to your customer.

Colonial Metals, Inc.

SDS Author: John Kerchner

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