



SECTION 1: Product Identification

Chemical Name:	trans-Dichlorodiammine palladium (II), 99%
Product Number:	136
CAS Registry Number:	13782-33-7
Formula:	Pd(NH ₃) ₂ Cl ₂
EINECS Number:	237-437-3
Chemical Family:	metal-ammine complexes
Synonym:	Palladium dichlorodiammine

SECTION 2: Composition and Information on Ingredients

Ingredient	CAS Number	Percent	ACGIH (TWA)	OSHA (PEL)
Title Compound	13782-33-7	100	no data	no data

SECTION 3: Hazards Identification

Emergency Overview:	Dust may be irritating to skin, eyes and respiratory tract. May be harmful if swallowed.
Primary Routes of Exposure:	Ingestion, inhalation
Eye Contact:	(if dust) May cause mild to moderate irritation of the eyes.
Skin Contact:	May cause slight to mild irritation of the skin.
Inhalation:	Dust may be irritating to the nose, mucous membranes and respiratory tract.
Ingestion:	Ingestion may lead to dizziness, abdominal cramps, and vomiting.
Acute Health Effects:	May be irritating to skin, eyes, mucous membranes, and respiratory tract.
Chronic Health Effects:	The chronic toxicological properties of this compound have not been thoroughly investigated. Unrecognized hazards may be present.
NTP:	No
IARC:	No
OSHA:	No



SECTION 4: First Aid Measures

Eye Exposure:	Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. A victim may need assistance in keeping their eye lids open. Get immediate medical attention.
Skin Exposure:	Wash the affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.
Inhalation:	Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.
Ingestion:	Seek medical attention immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5: Fire Fighting Measures

Flash Point:	not applicable
Autoignition Temperature:	none
Explosion Limits:	none
Extinguishing Medium:	carbon dioxide, foam or dry powder
Special Fire Fighting Procedures:	If this product is involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.
Hazardous Combustion and Decomposition Products:	If involved in a fire this material may emit toxic and corrosive fumes.
Unusual Fire or Explosion Hazards:	No unusual fire or explosion hazards.

SECTION 6: Accidental Release Measures

Spill and Leak Procedures:	Small spills can be mixed with vermiculite, sodium carbonate or other suitable non combustible adsorbent and swept up.
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SECTION 7: Handling and Storage

Handling and Storage:	Store in a cool, dry place in a tightly sealed container.
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Storage:

SECTION 8: Exposure Controls and Personal Protection

Eye Protection:

Always wear approved safety glasses when handling a chemical substance in the laboratory.

Skin Protection:

Wear protective clothing and gloves.

Ventilation:

To minimize exposure, handle the material in an efficient fume hood.

Respirator:

If ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 1910.134.

Additional Protection:

No additional protection required.

SECTION 9: Physical and Chemical Properties

Color and Form:

yellow powdr.

Molecular Weight:

211.37

Melting Point:

no data

Boiling Point:

no data

Vapor Pressure:

not applicable

Specific Gravity:

no data

Odor:

none

Solubility in Water:

slightly soluble

SECTION 10: Stability and Reactivity

Stability:

air and moisture stable

Hazardous

Polymerization:

no hazardous polymerization

Conditions to Avoid:

none

Incompatibility:

active metals

Decomposition

Products:

ammonium chloride, nitrogen oxides, and palladium salts.



SECTION 11: Toxicological Information

RTECS Data: No information available in the RTECS files.

Carcinogenic Effects: No data

Mutagenic Effects: No data

Teratogenic Effects: No data

SECTION 12: Ecological Information

Ecological Information: No information available

SECTION 13: Disposal Considerations

Disposal: Dispose of according to local, state and federal regulations.

SECTION 14: Transportation

Shipping Name
(CFR): Non-hazardous

Hazard Class (CFR): NA

Additional Hazard
Class (CFR): NA

Packaging Group
(CFR): NA

UN ID Number (CFR): NA

Shipping Name
(IATA): Non-hazardous

Hazard Class (IATA): NA

Additional Hazard
Class (IATA): NA

Packaging Group
(IATA): NA

UN ID Number
(IATA): NA

SECTION 15: Regulatory Information

TSCA: Not listed in the TSCA inventory.



SARA (Title 313): Not regulated by Title 313.

Second Ingredient: None

Third Ingredient: None