



SECTION 1: Product Identification

Chemical Name:	Diammineplatinum (II) nitrite, solution in ammonium hydroxide (50.0 w.% as Pt)
Product Number:	216
CAS Registry Number:	14286-02-3
Formula:	(NH ₃) ₂ Pt(NO ₂) ₂
EINECS Number:	none
Chemical Family:	metal-ammine complexes
Synonym:	Diammineplatinum (II) dinitrite, solution in ammonium hydroxide

SECTION 2: Composition and Information on Ingredients

Ingredient	CAS Number	Percent	ACGIH (TWA)	OSHA (PEL)
Title Compound	14286-02-3	40	0.002mg/m ³ (Pt)	0.002mg/m ³ (Pt)
ammonia	7664-41-7	60	25ppm	35mg/m ³ (as NH ₃)

SECTION 3: Hazards Identification

Emergency Overview:	Harmful if swallowed. Irritating to skin, eyes and respiratory tract.
Primary Routes of Exposure:	Ingestion, skin, inhalation of dust
Eye Contact:	Causes moderate irritation of the eyes.
Skin Contact:	Causes moderate irritation of the skin and dermatitis. Contact through a break in the skin can induce an allergic reaction.
Inhalation:	Inhalation of dust will cause wheezing, coughing, shortness of breath and asthma like symptoms, typical of allergy.
Ingestion:	Harmful if swallowed. Ingestion may cause nitrite poisoning including intense cyanosis, nausea, dizziness, vomiting, collapse, coma, and death.
Acute Health Effects:	Irritating to skin, eyes and respiratory tract. Upon repeated exposure, certain people may develop allergic reactions to platinum salts causing coughing, shortness of breath and runny nose.
Chronic Health Effects:	The chloroplatinate allergic reaction known as platinosis ceases when exposure is terminated. No permanent long term effects are reported.



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:	no data
Explosion Limits:	no data
Extinguishing Medium:	none required
Special Fire Fighting Procedures:	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 nitrogen oxides and ammonia.
Unusual Fire or Explosion Hazards:	Explosive when dry.
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.
SECTION 7: Handling and Storage	
Handling and Storage:	Store liquid in a tightly sealed container in a cool place away from direct sunlight.
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. Consult with glove manufacturer to determine the proper type of glove.
Ventilation:	Material has a choking pungent odor. Always handle material in an efficient fume hood.
Respirator:	In the absence of adequate ventilation a respirator should be worn. The use of a respirator 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:	colorless to light yellow liq.
Molecular Weight:	321.19
Melting Point:	no data
Boiling Point:	no data
Vapor Pressure:	no data
Specific Gravity:	no data
Odor:	choking pungent odor
Solubility in Water:	material is a water solution
SECTION 10: Stability and Reactivity	
Stability:	air and moisture stable
Hazardous Polymerization:	no hazardous polymerization



Conditions to Avoid:	excessive heat
Incompatibility:	strong mineral acids
Decomposition Products:	ammonia gas, platinum metal, platinum oxide, nitrogen oxides, and water.
SECTION 11: Toxicological Information	
RTECS Data:	ammonia (CAS# 7664-41-7) Oral (human); TDLo: 15 microL/kg. Inhal (human); TCLo: 20 ppm. Inhal (human); TCLo: 5000 ppm/5M. Unrep (Human); LDLo: 132 mg/kg. Inhal (rat); LC50: 2000 ppm/4H. Inhal (mouse); LC50: 4230 ppm/1H. Inhal (cat); LC50: 7 gm/m3/1H. Inhal (rat); LC50: 7 gm/m3/1H. Inhal (mammal); LCLo: 5000 ppm/5M. Oral (rat); TDLo: 173 mg/kg/1W-C. Inhal (rat); TCLo: 300 ppm/6H/5D-I. Inhal (rat) TCLo: 455 mg/m3/8H/90D-I
Carcinogenic Effects:	Insufficient data
Mutagenic Effects:	Insufficient data
Teratogenic Effects:	No data available
SECTION 12: Ecological Information	
Ecological Information:	No information available
SECTION 13: Disposal Considerations	
Disposal:	Dispose of according to federal, state, and local 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: Listed in the TSCA inventory.

SARA (Title 313): Title compound not listed.

Second Ingredient: Ammonia (CAS# 7664-41-7) listed SARA 313

Third Ingredient: none