



SECTION 1: Product Identification

Chemical Name:	Rhodium (III) nitrate, solution (10% Rh)
Product Number:	329
CAS Registry Number:	10139-58-9
Formula:	Rh(NO ₃) ₃
EINECS Number:	233-397-6
Chemical Family:	metal nitrate salts
Synonym:	Nitric acid, rhodium(3+) salt

SECTION 2: Composition and Information on Ingredients

Ingredient	CAS Number	Percent	ACGIH (TWA)	OSHA (PEL)
Title Compound	10139-58-9	10	0.01mg/m ³ (as Rh)	0.001mg/m ³ (as Rh)
water	7732-18-5	90	no data	no data

SECTION 3: Hazards Identification

Emergency Overview:	Corrosive to skin, eyes, and mucous membranes. May cause coughing, wheezing, shortness of breath, headache, nausea and vomiting. Ingestion may cause damage to the mouth, throat and esophagus.
Primary Routes of Exposure:	Ingestion, inhalation, skin, eyes.
Eye Contact:	Corrosive to eyes.
Skin Contact:	Corrosive to skin.
Inhalation:	Inhalation may cause inflammation of the respiratory tract, edema and chemical pneumonitis.
Ingestion:	Ingestion may cause damage to the mouth, throat and esophagus.
Acute Health Effects:	Corrosive to skin, eyes and respiratory tract. Inhalation causes coughing, wheezing, shortness of breath, headache, nausea and vomiting. Ingestion may cause damage to the mouth, throat and esophagus.
Chronic Health Effects:	No information available on long-term chronic effects.



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 irritating fumes.
Unusual Fire or Explosion Hazards:	Metal nitrates can be oxidizers. Contact with strong reducing agents could lead to fires and/or explosions.
SECTION 6: Accidental Release Measures	
Spill and Leak Procedures:	Small spills can be mixed with vermiculite or sodium carbonate and swept up.



SECTION 7: Handling and Storage

Handling and Storage: Store in a tightly sealed container. Keep away from heat and 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 gloves and clothing.

Ventilation: If possible, handle the material in an efficient fume hood.

Respirator: No respirator required.

Additional Protection: No additional protection required.

SECTION 9: Physical and Chemical Properties

Color and Form: amber liq.

Molecular Weight: 288.60

Melting Point: no data

Boiling Point: no data

Vapor Pressure: no data

Specific Gravity: no data

Odor: none

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: Contact with strong reducing agents or organic matter. Some nitrates can explode if heated to high temperatures.

Incompatibility: reducing agents, organic matter, phosphorus and sulfur

Decomposition Products: nitrogen oxides and rhodium salts



SECTION 11: Toxicological Information

RTECS Data: No specific information available on this product.

Carcinogenic Effects: No data available

Mutagenic Effects: No data available

Tetratogenic Effects: No data available

SECTION 12: Ecological Information

Ecological Information: No data available

SECTION 13: Disposal Considerations

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

SECTION 14: Transportation

Shipping Name (CFR): Corrosive Liquids, N.O.S.

Hazard Class (CFR): 8

Additional Hazard Class (CFR): NA

Packaging Group (CFR): III

UN ID Number (CFR): UN# 1760

Shipping Name (IATA): Corrosive Liquid, N.O.S.

Hazard Class (IATA): 8

Additional Hazard Class (IATA): NA

Packaging Group (IATA): III

UN ID Number (IATA): UN# 1760



SECTION 15: Regulatory Information

TSCA:	Listed in the TSCA inventory.
SARA (Title 313):	Title compound: See Category Code N511 for reporting.
Second Ingredient:	none
Third Ingredient:	none