



SECTION 1: Product Identification

Chemical Name:	Rhodium (III) oxide pentahydrate, 99%
Product Number:	309A
CAS Registry Number:	39373-27-8
Formula:	Rh ₂ O ₃ ·5H ₂ O
EINECS Number:	none
Chemical Family:	metal oxide
Synonym:	dirhodium trioxide, pentahydrate

SECTION 2: Composition and Information on Ingredients

Ingredient	CAS Number	Percent	ACGIH (TWA)	OSHA (PEL)
Title Compound	39373-27-8	100	1mg/m ³ (as Rh)	0.1mg/m ³ (as Rh)

SECTION 3: Hazards Identification

Emergency Overview:	May be irritating to skin and eyes and respiratory tract.
Primary Routes of Exposure:	Ingestion, inhalation
Eye Contact:	May be a mild to severe irritant to the eyes.
Skin Contact:	May cause slight to mild irritation of the skin.
Inhalation:	Do not breath dust. Inhalation of powder may lead to irritation of the respiratory tract.
Ingestion:	No information available on the effects of ingestion.
Acute Health Effects:	May be irritating to skin, eyes, mucous membranes and respiratory tract. Do not breath dust.
Chronic Health Effects:	No information available on health effects of prolonged or repeated exposure.
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:	not applicable
Explosion Limits:	not applicable
Extinguishing Medium:	None. Material is non-flammable.
Special Fire Fighting Procedures:	No special fire fighting procedures required for this material.
Hazardous Combustion and Decomposition Products:	No hazardous combustion or decomposition products.
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 or sodium carbonate and swept up.
SECTION 7: Handling and Storage	



Handling and Storage: Store in a tightly sealed container. Handle fine powders in a well-ventilated area.

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 appropriate chemical resistant gloves and protective clothing.

Ventilation: Material may form or contain a fine dust that may become airborne during handling. If possible, handle the material in an efficient fume hood.

Respirator: If handling material in the form of a fine dust and 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: 253.81 (343.89)

Melting Point: dec.

Boiling Point: no data

Vapor Pressure: not applicable

Specific Gravity: no data

Odor: none

Solubility in Water: insoluble

SECTION 10: Stability and Reactivity

Stability: air and moisture stable solid

Hazardous Polymerization: no hazardous polymerization

Conditions to Avoid: none

Incompatibility: active metals, and phosphorous

Decomposition Products: none



SECTION 11: Toxicological Information

RTECS Data: No information available in the RTECS files.

Carcinogenic Effects: No data available

Mutagenic Effects: No data available

Teratogenic 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): 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): Title compound not listed.



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Second Ingredient: none

Third Ingredient: none