



## SECTION 1: Product Identification

Chemical Name:	Rhodium (III) chloride hydrate(38-41% Rh)
Product Number:	303
CAS Registry Number:	20765-98-4
Formula:	$\text{RhCl}_3 \cdot x\text{H}_2\text{O}$
EINECS Number:	233-165-4
Chemical Family:	metal halide
Synonym:	Rhodium trichloride hydrate

## SECTION 2: Composition and Information on Ingredients

Ingredient	CAS Number	Percent	ACGIH (TWA)	OSHA (PEL)
Title Compound	20765-98-4	100	0.01mg/m3 (as Rh)	0.001mg/m3 (as Rh)

## SECTION 3: Hazards Identification

Emergency Overview:	Irritating to skin, eyes and respiratory tract. Harmful if swallowed.
Primary Routes of Exposure:	Ingestion
Eye Contact:	Causes slight to mild irritation of the eyes
Skin Contact:	Causes slight to mild irritation of the skin.
Inhalation:	Irritating to the nose, mucous membranes and respiratory tract.
Ingestion:	Harmful if swallowed.
Acute Health Effects:	Irritating to skin, eyes and respiratory tract. Harmful if swallowed.
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.
<b>SECTION 5: Fire Fighting Measures</b>	
Flash Point:	none
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:	Non-flammable solid. No unusual fire or explosion hazards.
<b>SECTION 6: Accidental Release Measures</b>	
Spill and Leak Procedures:	Small spills can be mixed with vermiculite or sodium carbonate and swept up.
<b>SECTION 7: Handling and Storage</b>	
Handling and Storage:	Store in a tightly sealed container. Keep away from heat and direct sunlight. Material is hygroscopic and may pick up moisture from prolonged exposure to the atmosphere.



## 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:	If possible, 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 Respiratory 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:	dark red powder
Molecular Weight:	209.28
Melting Point:	100°C dec.
Boiling Point:	no data
Vapor Pressure:	not applicable
Specific Gravity:	no data
Odor:	none
Solubility in Water:	soluble

## SECTION 10: Stability and Reactivity

Stability:	hygroscopic
Hazardous Polymerization:	no hazardous polymerization
Conditions to Avoid:	none
Incompatibility:	active metals
Decomposition Products:	hydrogen chloride and rhodium salts.

## SECTION 11: Toxicological Information



RTECS Data: For rhodium chloride anhydrous (CAS# 10049-07-7): Oral (rat); LD50: 1302 mg/kg. Intraperitoneal (rat); LD50: 280 mg/kg. Intravenous (rat); LD50: 198 mg/kg. Intraperitoneal (mouse); LD10: 879 mg/kg. Intravenous (rabbit); LD50: 215 mg/kg. Oral (mouse); TDLo: 940 mg/kg/66W-C. Intratesticular (rat); TDLo: 16741 ug/kg. Bacteria-Bacillus subtilis; DNA repair: 5 nmol/L.

Carcinogenic Effects: No data available

Mutagenic Effects: No data available

Tetratogenic Effects: No data available

## 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: listed in the TSCA inventory as RhCl<sub>3</sub> (CAS# 10049-07-7)

SARA (Title 313): not reportable under SARA Title (313)

Second Ingredient: none

Third Ingredient: none