

RHODIUM TRICHLORIDE, TRIHYDRATE

0746

October 1995

CAS No: 13569-65-8
RTECS No: VI9290000

Rhodium chloride, trihydrate
 $\text{Cl}_3\text{Rh} \cdot 3\text{H}_2\text{O}$
Molecular mass: 263.3

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: use appropriate extinguishing media.
EXPLOSION			
EXPOSURE		PREVENT DISPERSION OF DUST!	
Inhalation	Cough.	Avoid inhalation of fine dust and mist. Local exhaust or breathing protection.	
Skin	Redness.	Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower.
Eyes	Redness.	Safety spectacles.	
Ingestion		Do not eat, drink, or smoke during work.	

SPILLAGE DISPOSAL

Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Personal protection: P3 filter respirator for toxic particles.

PACKAGING & LABELLING

Unbreakable packaging; put breakable packaging into closed unbreakable container.

EMERGENCY RESPONSE**SAFE STORAGE**

Separated from incompatible materials. See Chemical Dangers.

IPCS

International
Programme on
Chemical Safety



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SEE IMPORTANT INFORMATION ON THE BACK.

IMPORTANT DATA

Physical State; Appearance

RED DELIQUESCENT POWDER.

Chemical dangers

The substance decomposes on heating producing toxic and corrosive fumes including hydrogen chloride (see ICSC 0163).
Reacts violently with iron pentacarbonyl and zinc causing explosion hazard.

Occupational exposure limits

TLV: 0.01 mg/m³ as TWA; A4 (not classifiable as a human carcinogen); (ACGIH 2004).
MAK: Carcinogen category: 3B; (DFG 2004).

Routes of exposure

The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.

Inhalation risk

Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed.

PHYSICAL PROPERTIES

Melting point (decomposes): 100°C
Relative density (water = 1): >1

Solubility in water: very good

ENVIRONMENTAL DATA

NOTES

The name of rhodium chloride is often used both the hydrated and the anhydrous form.
Insufficient data are available on the effect of this substance on human health, therefore utmost care must be taken.
Card has been partly updated in October 2005. See sections Occupational Exposure Limits, Emergency Response.

ADDITIONAL INFORMATION

LEGAL NOTICE

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