

LTS Research Laboratories, Inc. Safety Data Sheet Platinum Rhodium Alloy

1. Product and Company Identification

Trade Name: Platinum Rhodium Alloy

Chemical Formula: PtRh

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 37 Ramland Road
City: Orangeburg
State: New York
Zip Code: 10962
Country: USA

Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

2. Hazards Identification

Signal Word: Warning



Hazard Statements: H228: Flammable solid.

Precautionary Statements: P210: Keep away from heat/sparks/open flames/hot surfaces. No

smoking.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting/equipment. P280: Wear protective gloves/eye protection/ face protection. P370+P378: In case of fire: Use dry sand, dry chemical or alcohol-

resistant foam to extinguish.

HMIS Health Ratings (0-4):

Health: 1 Flammability: 3 Physical: 3

3. Composition

Chemical Family: Metal alloy Additional Names: N/A

Platinum (Pt):

Percentage: 0-100 wt% CAS #: 7440-06-4 EC #: 231-116-1

Rhodium (Rh):

Percentage: 0-100 wt% CAS #: 7440-16-6 EC #: 231-125-0

4. First Aid Procedures	
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult. Keep patient warm. Seek immediate medical attention.
Ingestion:	Seek immediate medical attention.
Skin: Eyes:	Immediately wash affected area with mild soap and water. Remove any contaminated clothing. Seek immediate medical attention. Flush eyes with water, blinking often for several minutes. Remove
•	contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention.
	5. Firefighting Measures
Flammability:	Non-flammable
Extinguishing Media: Spec. Fire Fighting Procedure:	Do not use water for metal fires – use CO ₂ , sand, extinguishing powder Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for decomposition products.
	6. Accidental Release Measures
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in special protection information. Keep unprotected persons away. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Protect from electrostatic charges. Store away from acids, oxidizing agents, organic materials. Store apart from materials and conditions listed in section 10
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with
Ventilation:	compressed air. Provide sufficient ventilation to maintain concentration at or below threshold limit.
8.	Exposure Controls and Personal Protection
Permissible Exposure Limits:	N/A
Threshold Limit Value:	N/A
Special Equipment:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.
Respiratory Protection:	Dust Respirator
Protective Gloves:	Nitrile rubber gloves with minimum thickness of 0.11 mm
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.

9. Physical and Chemical Characteristics	
Color	N/A
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	N/A
	N/A
Boiling Point:	
Melting Point:	N/A
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	N/A
Molecular weight:	N/A
	10. Reactivity
Stability:	Stable under recommended storage conditions. The catalytic properti
	of platinum may promote the oxidation and ignition of organic materials.
Pagets With	
Reacts With:	Oxidizing agents, acids, halogens, chlorine trifluoride, oxygen
	difluoride, organic materials, alcohols
Incompatible Conditions:	Heat/flames/sparks
Hazardous Decomposition Products:	Metal oxide fume, rhodium/rhodium oxides, platinum oxides
	11. Toxicological Information
Potential Health Effects:	
Eyes:	May cause irritation
Skin:	May cause irritation
Ingestion:	May cause irritation
Inhalation:	
Chronic:	Stomach - Irregularities - Based on Human Evidence
emonie.	Stomach - megularities - Based on Human Evidence
C: 0- C	NI/A
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	Platinum:
	Carcinogenicity - Rat - Implant
	Tumorigenic: Equivocal tumorigenic agent by RTECS criteria.
	Tumorigenic: Tumors at site or application.
	Carcinogenicity - Mouse - Implant
	Tumorigenic: Equivocal tumorigenic agent by RTECS criteria.
	Tumorigenic: Tumors at site or application.
	IARC: No component of this product present at levels greater than or
	equal to 0.1% is identified as probable, possible or confirmed human
	carcinogen by IARC.
	NTP: No component of this product present at levels greater than or
	equal to 0.1% is identified as a known or anticipated carcinogen by
	NTP.
	OSHA: No component of this product present at levels greater than of equal to 0.1% is on OSHA's list of regulated carcinogens.
	12. Ecological Information
Aquatic Toxicity:	N/A
Persistent Bioaccumulation Toxicity:	N/A
	N/A

Notes:

Do not allow material to be released to the environment without proper

governmental permits.

Do not allow undiluted product or large quantities to reach ground

water, water course or sewage system. Avoid transfer into the environment.

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous:

Hazardous as powder only.



Hazard Class: 4.1 Flammable solids

Packing Group: II

UN Number: UN3089

Proper Shipping Name: Metal powders, flammable, n.o.s. (Platinum Rhodium alloy)

15. Regulatory Information

Sec 302 Extremely Hazardous:

Sec 304 Reportable Quantities:

Sec 313 Toxic Chemicals:

No. N/A

N/A HE HESEOI CI

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

Document Last Revised: 05/20/2019