Heegermaterials

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:	Heeger Materials Inc. 230 Steele St	
Street:		
City:	Denver	
State:	CO	
Zip Code:	80206	
Country:	USA	
Tel #:	925-385-8104	
24-Hour Emergency Contact:	800-424-9300 (US & Canada)	
	+1-703-527-3887 (International)	
11	2. Hazards Identification	
Signal Word:	Warning	
Signal Word:		
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%	
	0-100 wt% 7440-16-6 231-125-0	

	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:	Immediately wash affected area with mild soap and water. Remove any contaminated clothing. Seek immediate medical attention.
Eyes:	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
	Non-flammable
Extinguishing Media:	Do not use water for metal fires – use CO ₂ , sand, extinguishing powder
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective
Ha	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
	compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below threshold limit.
	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:	minute. 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	
Boiling Point:	N/A	
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 properties of platinum may promote the oxidation and ignition of organic materials.	
Reacts With:	Oxidizing agents, acids, halogens, chlorine trifluoride, oxygen	
Nearty WIIII.	difluoride, organic materials, alcohols	
Incompatible Conditions:	Heat/flames/sparks	
Hazardous Decomposition Products:	Metal oxide fume, rhodium/rhodium oxides, platinum oxides	
100	11. Toxicological Information	
Potential Health Effects:		
Eyes:	May cause irritation	
Skin:	May cause irritation	
Ingestion:	May cause irritation	
Inhalation:	May cause irritation	
Chronic:	Stomach - Irregularities - Based on Human Evidence	
Signs & Symptoms:	N/A	
Aggravated Medical Conditions:	N/A	
Median Lethal Dose:	N/A N/A 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 or equal to 0.1% is on OSHA's list of regulated carcinogens.	
	12. Ecological Information	
Aquatic Toxicity:	N/A	
Persistent Bioaccumulation Toxicity:	N/A	
Very Persistent, Very Bioaccumulative:	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.
	REAMINABLE TOLIN
Hazard Class:	4.1 Flammable solids
Packing Group: UN Number:	II UN3089
Proper Shipping Name:	Metal powders, flammable, n.o.s. (Platinum Rhodium alloy)
807	15. Regulatory Information
Sec 302 Extremely Hazardous: Sec 304 Reportable Quantities: Sec 313 Toxic Chemicals:	No N/A No
	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.

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