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Oak Ridge National Laboratory Oak Ridge, Tennessee 37831

IBO-MSDS-05678

MATERIAL SAFETY DATA SHEET

The issuance of this document complies with the U. S. Department of Labor, Occupational Safety and Health Administration's (OSHA) Hazard Communication Standard 29 CFR 1910.1200. Standard must be consulted for specific requirements.

Definitions:	<u>ACGII</u>	American	American Conference of Governmental Industrial Hygienists						
	NIOSH	Mational Institute for Occupation		onal Safety and Health			45 0		
	<u>NE</u>	Not Establ	ished	<u>NISS</u>	Not In Sources S	earched	الإقوالية الخرية الآق - الإقوالية الخرية الآقا		
	$\underline{\mathbf{N}}\underline{\mathbf{A}}$	Not Applic	able	TLV	Threshold Limit	Value	Carlo		
	TWA Time Weighted Average			PEL					
							T		
IDEN	TITY (As ı	sed on label and	d list): Platinum	(-190, -192, -	194, -195, -196, -19	98) Metal Powder	~m		
M	N		SECTION I. Manu	facturer's Id					
Manufacturer's	Name:				Emergency Tel-	ephone Number:			
IIT_R	attelle			Lab Shift Superintendent (865) 574-6606					
		tional Laborat		Telephone Number for Assistance:					
	e Business		ory		Isotope	Business Office (865) 574-6984		
	Box 2008	Office							
	Box 2008 Ridge, Tenn	negoo 27021			Date Prepared:	06-March-1987			
Oak I	duge, Tenn	C33CC 3/831			Date Reviewed:	25-July-2003			
		SECTIO	N II. Hazardous II	gredients/Id	lentity Information	<u> </u>			
Exposure Limits									
OSHA				TWA 1 r	ng/m³				
ACGIH TLV:				TWA 1 mg/m ³ (1989-90)					
NIOSI				NE					
Chaminal Farmer	liately Dang	erous to Life and	d Health:	NE					
Chemical Formu	<u>ıla</u> :	Pt			gistry Number:	007440-06-4			
Hoolth Hannal D	-41		_	RTECS 1		TP2160000			
Fire Horand Dati	Health Hazard Rating: 3, high health hazard				<u>ss</u> :	4.1, Flammable Solid			
Fire Hazard Rating: 1, slightly flammable			mable	DOT Label:		Flammable Solid			
Reactivity Rating	Reactivity Rating: 0, nonreactive				<u>mber</u> :	UN 3089			
		SEC	TION III. Physical	/Chemical C	haracteristics				
Physical Descrip			Silver-gray, lustro	us metal or b	lack powder. Resist	ant to corrosion			
Molecular Weigh	t (naturally	occurring):	195.09		,				
Melting Point:			1773°C	Vapor Pro	essure:	NISS			
Boiling Point:			3827°C	Vapor De		NISS			
Specific Gravity:			21.45 (water=1)	Percent V	'olatiles:	NISS			
Evaporation Rate	<u>:</u> :		NISS	Solubility		Insoluble in water.	*		
		SEC	CTION IV. Fire and	l Evulacion I	Hazand Data				
Flash Point (meth	nod):	NISS	invalid		mmability Limit:	Micc			
Autoignition Ten	perature:	NISS			mmability Limit:	NISS NISS			
Extinguishing Me		Extinguishing	media suitable for s	urrounding m	naterials	1/199			
Firefighting Proce	<u>suishing Media:</u> Extinguishing media suitable for surrounding materials. Firefighting techniques should concentrate on controlling the spread of the fire to other combustible to the								
		materials. We	ear pressure-demand	self-contain	ed breathing and appare	tus and full firefighting	ombustible		
		clothing.	,	our contain	ed oreathing appara	ius and tuit thetightin	g protective		
Fire and Explosion Hazards: Flammable in powder form. At extremely high temperatures (3218°F), this metal could melt a									
		continuous he	ating could produce	metal vapor.	tomperatures (5216	1), this metal could h	nen and		
			SECTION V.	Reactivity D	ata				
Stability:			Unstable:		ible: X				
Conditions to Avo			NISS						
ncompatibility (n	naterials to a	void):	NISS						
Hazardous Decom	position or	Byproducts:	NISS						
Hazardous Polyme	erization:	· 	May Occur:	Wi	ll Not Occur:	X			

	SECTION '	VI. Health	Hazard Data	a					
Routes of Entry:	Inhalation:			Skin:	Ingestion:				
Signs and Symptoms of Exposure:									
Acute Inhalation:	NISS								
Acute Swallowing:	NISS								
Acute Skin Contact:	Irritant								
Acute Eye Contact:	Irritant								
Chronic:	NISS								
Health Hazards (Target organs/systems):									
Acute:	Blood, centr	Blood, central nervous system, digestive system, eyes, lungs, peripheral nervous							
	system, resp	system, respiratory system, skin (cutaneous hazard).							
Chronic:	NISS		,						
Emergency and First Aid Procedures:									
Inhalation:	Remove to f	resh air. No	emergency	care antic	ipated.				
Swallowing:		Induce vomiting only after massive ingestion.							
Skin contact:	Remove con	Remove contaminated clothing and immediately wash skin with plenty of water.							
Eye contact:	Flush eyes a	Flush eyes at once with water for at least 15 minutes. Get medical aid.							
Physicians' notes:	NISS								
<u>Carcinogenicity</u> : NTP <u>NO</u> IARC Monographs <u>NO</u> OSHA Regulated <u>NO</u> <u>Medical Conditions Generally Aggravated by Exposure</u> : NISS									
SECTION VII. Precautions for Safe Handling and Use									
Steps to be Taken in Case Material is Released or Spilled: Notify safety personnel of leaks or spills. Remove spills by vacuuming									
or wet sweeping in order to keep airborne dust at a minimum.									
Waste Disposal Method: Collect in an appropriate container for salvage or disposal. Treat unsalvageable waste as a toxic solid in									
accordance with federal, state, and le									
Precautions to be Taken in Handling and Storing: Store in closed container in a cool, dry, well-ventilated, low fire-risk area. Protect									
container from physical damage.									
Other Precautions: Avoid breathing dust. Avoid skin and eye contact. Eyewash stations and washing facilities should be accessible to areas of use.									
SECTION VIII. Control Measures									
Respiratory Protection (specify type):									
Ventilation:	Use a NIOS	in-approved	i inorganic di	ist respira	tor when dust levels exceed the PEL.				
Local Exhaust:	Employ to I	room dust ba	January Alban 1707 A.7	11-					
Mechanical (general):		Employ to keep dust below the TLV levels. Employ to keep dust below the TLV levels.							
Special:		NISS							
Other:		NISS							
Protective Gloves:		Compatible chemical resistant gloves.							
Eye Protection:	Wear approx	Wear approved chemical safety goggles/glasses.							
Other Protective Clothing or Equipment:	Wear protective clothing.								
Work/Hygienic Practices:		Wash thoroughly after handling.							
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