E0229

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:

ACGIH	American Conference of Governmental Industrial Hygienists		
NIOSH	National Institute for Occupational Safety and Health		
NE	Not Established	**NISS**	Not In Sources Searched
NA	Not Applicable	**TLV**	Threshold Limit Value
TWA	Time Weighted Average	**PEL**	Permissible Exposure Limit

IDENTITY (As used on label and list): Platinum (-190, -192, -194, -195, -196, -198) Metal Powder

SECTION I. Manufacturer's Identification

Manufacturer's Name:

UT-Battelle
c/o Oak Ridge National Laboratory
Isotope Business Office
P. O. Box 2008
Oak Ridge, Tennessee 37831

Emergency Telephone Number:
Lab Shift Superintendent **(865) 574-6606**
Telephone Number for Assistance:
Isotope Business Office **(865) 574-6984**

Date Prepared: 06-March-1987
Date Reviewed: 25-July-2003

SECTION II. Hazardous Ingredients/Identity Information

Exposure Limits:

OSHA:	TWA 1 mg/m^3
ACGIH TLV:	TWA 1 mg/m^3 (1989-90)
NIOSH:	NE
Immediately Dangerous to Life and Health:	NE

Chemical Formula:	Pt	CAS Registry Number:	007440-06-4
		RTECS Number:	TP2160000
Health Hazard Rating:	3, high health hazard	DOT Class:	4.1, Flammable Solid
Fire Hazard Rating:	1, slightly flammable	DOT Label:	Flammable Solid
Reactivity Rating:	0, nonreactive	DOT Number:	UN 3089

SECTION III. Physical/Chemical Characteristics

Physical Description:	Silver-gray, lustrous metal or black powder. Resistant to corrosion.		
Molecular Weight (naturally occurring):	195.09		
Melting Point:	1773°C	Vapor Pressure:	NISS
Boiling Point:	3827°C	Vapor Density:	NISS
Specific Gravity:	21.45 (water=1)	Percent Volatiles:	NISS
Evaporation Rate:	NISS	Solubility:	Insoluble in water.

SECTION IV. Fire and Explosion Hazard Data

Flash Point (method):	NISS	Lower Flammability Limit:	NISS
Autoignition Temperature:	NISS	Upper Flammability Limit:	NISS

Extinguishing Media: Extinguishing media suitable for surrounding materials.

Firefighting Procedures: Firefighting techniques should concentrate on controlling the spread of the fire to other combustible materials. Wear pressure-demand, self-contained breathing apparatus and full firefighting protective clothing.

Fire and Explosion Hazards: Flammable in powder form. At extremely high temperatures (3218°F), this metal could melt and continuous heating could produce metal vapor.

SECTION V. Reactivity Data

Stability:	Unstable:	____	Stable:	X
Conditions to Avoid:	NISS			
Incompatibility (materials to avoid):	NISS			
Hazardous Decomposition or Byproducts:	NISS			
Hazardous Polymerization:	May Occur:	____	Will Not Occur:	X

SECTION VI. Health Hazard Data

Routes of Entry:	Inhalation: NISS 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, central nervous system, digestive system, eyes, lungs, peripheral nervous system, respiratory system, skin (cutaneous hazard).
Chronic:	NISS
Emergency and First Aid Procedures:	
Inhalation:	Remove to fresh air. No emergency care anticipated.
Swallowing:	Induce vomiting only after massive ingestion.
Skin contact:	Remove contaminated clothing and immediately wash skin with plenty of water.
Eye contact:	Flush eyes at once with water for at least 15 minutes. Get medical aid.
Physicians' notes:	NISS

Carcinogenicity: NTP NO IARC Monographs NO OSHA Regulated NO

Medical Conditions Generally Aggravated by Exposure: 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 local regulations.

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):	Use a NIOSH-approved inorganic dust respirator when dust levels exceed the PEL.
Ventilation:	
Local Exhaust:	Employ to keep dust below the TLV levels.
Mechanical (general):	Employ to keep dust below the TLV levels.
Special:	NISS
Other:	NISS
Protective Gloves:	Compatible chemical resistant gloves.
Eye Protection:	Wear approved chemical safety goggles/glasses.
Other Protective Clothing or Equipment:	Wear protective clothing.
Work/Hygienic Practices:	Wash thoroughly after handling.

DISCLAIMER