



MATERIAL SAFETY DATA SHEET
COMPLIES WITH 29 CFR 1910.1200.
OSHA HAZARD COMMUNICATION RULE

DATE OF LAST REVISION: 03-00

CHEMICAL IDENTITY

LABEL IDENTITY	PALLADIUM
CHEMICAL NAME/SYNONYMS	ALLOY
FORMULA	Pd
CHEMICAL FAMILY	Metal
CAS REGISTRY NUMBER	7440-05-3
HAZARDOUS INGREDIENTS	Palladium
+99 - 35	OSHA/PEL: N/A
TLV: N/A	

PHYSICAL AND CHEMICAL PROPERTIES

COLOR, FORM	Silver/gray - Red/brown, Odorless
PHYSICAL FORM	Solid metal
VAPOR DENSITY	Varies
VAPOR PRESSURE @ 20°	NA
VOLATILE BY WEIGHT	Essentially zero
SOLUBILITY IN WATER	Insoluble
MELTING POINT	1555° (100% Pd)
SPECIFIC GRAVITY	N/A

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	Non Flammable as a solid
AUTOIGNITION TEMPERATURE (°C)	NA
FLAMMABILITY	Non flammable
EXTINGUISHING MEDIA	This material is non-combustible. Use appropriate extinguishing agent for surrounding fires. Do not use water to extinguish fires around operations involving molten metal, due to the potential for steam explosion
SPECIAL FIRE FIGHTING PROCEDURES	Self-contained breathing apparatus should be worn when fighting metal dust fires. High levels of dust or fine particles in the air may ignite or explode
UNUSUAL FIRE & EXPLOSION HAZARDS	Platinum can catalyze oxidation and ignition of flammable gases and vapors. Can contain occluded hydrogen.



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HAZARDOUS POLYMERIZATION
CONDITIONS TO AVOID

Will Not Occur
Conditions which create dust or fumes.

SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: **In solid form this material poses no special clean-up problems. Use normal clean up procedures; wet sweeping or HEPA vacuum, for clean up of dust or powder. Do not use compressed air for cleaning.**

WASTE DISPOSAL METHOD: **Because of its high intrinsic value this material should be reclaimed. Dispose of in accordance with local, state and federal regulations.**

SPECIAL PROTECTIVE INFORMATION

RESPIRATORY PROTECTION	Use an appropriate NIOSH approved respirator if airborne dust concentration exceed the PEL or TLV
LOCAL EXHAUST	Recommended, when cutting, grinding or melting or any other operation where dust or fumes are created.
PROTECTIVE GLOVES	Protective gloves are recommended, to prevent mechanical irritation.
EYE PROTECTION	Safety glasses are recommended
GENERAL	Recommended
OTHER PROTECTIVE EQUIPMENT	Eye wash fountain should be readily available in areas of use or handling.
EXPOSURE LIMITS	Not established for product as whole.
ENVIRONMENTAL SURVEILLANCE	If the operation generates dust or fumes, exposure to airborne materials should be determined by having air samples taken in the employees breathing zone and work area.

SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING/STORAGE: **In solid form this material poses no special problems. Store metal in a dry area. Do not store adjacent to acids.**

TRANSPORTATION REQUIREMENTS: **No specific D. O. T. requirements.**

DOT SHIPPING NAME:	Not Regulated
TECHNICAL SHIPPING NAME:	Metal Alloy
DOT CLASS:	Not Classified
UN NUMBER:	None



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PRECAUTIONARY LABELING	NONE
OTHER PRECAUTIONS	NONE

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NA= NOT APPLICABLE

ND= NO DATA FOUND