

MSDS - 0307

REVISION: N/C
JULY 28, 2000


MATERIAL SAFETY DATA SHEET
FOR PALLADIUS-V+

VIDENT

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Prepared by: 

SECTION 1 - PRODUCT IDENTIFICATION: PALLADIUS-V+ ALLOY

TRADE NAMES:

PALLADIUS-V+ ALLOY

CHEMICAL NAME:

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MSDS - 0307 APPLIES TO THE FOLLOWING VIDENT PRODUCTS (BY PART NUMBER)

M20-132

INFORMATION PRESENTED HEREIN HAS BEEN COMPILED FROM SOURCES CONSIDERED TO BE DEPENDABLE AND IS ACCURATE AND RELIABLE TO THE BEST OF OUR KNOWLEDGE AND BELIEF. IT IS THE USER'S RESPONSIBILITY TO DETERMINE FOR HIMSELF THE SUITABILITY OF ANY MATERIAL FOR A SPECIFIC PURPOSE AND TO ADOPT SUCH SAFETY PRECAUTIONS AS MAY BE NECESSARY. WE MAKE NO WARRANTY AS TO THE RESULTS TO BE OBTAINED IN USING ANY MATERIAL AND, SINCE CONDITIONS OF USE ARE NOT UNDER OUR CONTROL, WE MUST NECESSARILY DISCLAIM ALL LIABILITY WITH RESPECT TO THE USE OF ANY MATERIAL SUPPLIED BY US.

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SECTION II - HAZARDOUS INGREDIENTS / IDENTIFY INFORMATION

HAZARDOUS INGREDIENTS / OSHA:

INGREDIENT	CAS#	OSHA PEL TWA .mg/m.3b)	ACGIH TLV TWA .mg/m.3b)
Boron	[7440-42-8]	--	10
Copper	[7440-50-8]	0.1-0.2	0.1-1.0
Gallium	[7440-55-3]	--	--
Gold	[7440-57-5]	--	--

INGREDIENT	CAS#	OSHA PEL TWA .mg/m.3b)	ACGIH TLV TWA .mg/m.3b)
Indium	[7440-74-6]	--	0.1
Palladium	[7440-05-3]	--	--
Ruthenium	[7440-06-4]	--	--
Tin	[7440-31-5]	2	2

CARCINOGENIC INGREDIENTS/OSHA : NONE

SECTION III - PHYSICAL AND CHEMICAL DATA

APPEARANCE AND ODOR: White color, No odor.

SOLUBILITY IN WATER: Insoluble

CASTING TEMP: 2350 F

MELTING POINT: 2105-2150 F

VAPOR PRESSURE: Not Applicable

SPECIFIC GRAVITY: 11.2g/cm3

FLASH POINT: Non Flammable

FLAMMABLE LIMITS: N/A

LEL: Not applicable

EXTINGUISHING MEDIA: N/A

SPECIAL FIREFIGHTING PROCEDURES: None.

UNUSUAL FIRE HAZARD: None.

SECTION V - REACTIVITY DATA

STABILITY: Stable

MATERIAL TO AVOID: Will dissolve in some acids.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Overheating- at very high temperatures the alloy produces fumes, which are not flammable.

HAZARDOUS DECOMPOSITION OF BY PRODUCTS: Fumes

SECTION VI - HEALTH HAZARD DATA

ROUTES OF ENTRY: Inhalation, Ingestion, Skin and Eyes

HEALTH HAZARDS: Breathing dust may cause irritation of the upper respiratory tract
Indium is toxic when ingested
Metal may cause irritation.
Contact may cause skin irritation or industrial dermatitis.

CARCINOGENICITY: None

SIGNS AND SYMPTOMS OF EXPOSURE: Redness, rash, wheezing, blue-gray discoloration of skin, metallic taste in mouth

EMERGENCY FIRST AID PROCEDURES:
Inhalation: Remove affected person to fresh air and assist with additional oxygen if necessary
Ingestion: Give large quantities of water to induce vomiting
Eyes: Contact physician.
Skin: Flush eyes thoroughly with running water. Scrub skin thoroughly with soap and water

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

CLEAN - UP PROCEDURES: Remove dust by vacuuming or wet sweeping to prevent powdering in the air. Wear NIOSH approved respirators and protective clothing. No special precautions required for bulk (solid) shapes, such as ingots.

WASTE DISPOSAL METHOD: May have reclaimable Value. Dispose of according to all Federal, State and local regulations

HANDLING AND STORAGE PRECAUTIONS: Keep in a cool dry place.

SECTION VII - CONTROL MEASURES

RESPIRATORY PROTECTION: Wear a NIOSH approved respirator for dust exceeding the TLV's.

VENTILATION: Provide general ventilation and local exhaust to keep levels below the TLV stated in section II

EYE PROTECTION: Wear safety goggles with side shields or face shield during grinding.

PROTECTIVE CLOTHING: Latex gloves recommended while grinding, heat resistant gloves should be worn while casting and handling hot metals or molds. Wear apron, lab coat or other protective clothing

WORKHYGENIC PRACTICE: Avoid inhalation of fumes while melting and dust while grinding. Wash hands thoroughly before eating or smoking to avoid ingestion.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA