



TALLADIUM, INC.
SAFETY DATA SHEET
27360 W. Muirfield Lane, Valencia • California 91355
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Section 1 - Product and Company Identification

Issue Date: 09/06/1985

Review Date: 02/20/2015

Product Identification: Vi-Star Partial Alloy

Product Synonym: Chromium Nickel Partial Alloy

Product Class/Use: Dental Alloy

Company Name: Talladium, Incorporated

Company Address: 27360 West Muirfield Lane
Valencia, California 91355
United States of America

General Information Telephone: (661)-295-0900

Emergency Telephone: Not required by regulations.

Section 2 - Composition/Information on Ingredients

SUBSTANCE	C.A.S	% Range By Weight	OSHA PEL (mg/m ³)	ACGIH TLV (mg/m ³)
Nickel	7740-02-0	60 – 65 %	1.0	1.0
Chromium	7440-47-3	17 – 32 %	0.1	0.2
Molybdenum	7439-98-7	4.0 – 8.0 %	0.05	0.05
Aluminum	7429-90-5	4.0 – 6.0 %	0.05	0.05
Titanium	7440-32-6	4.0 – 6.0 %	0.05	0.05

In compliance with ADA Guidelines for Partial Dental Alloys

Section 3 - Hazards Identification, Including Emergency Overview

This alloy contains Chromium, Molybdenum. All of the alloyed contents are in a compounded state with no raw metals available. Dental Laboratory Technicians work with a variety of potentially toxic substances, including various dusts from silica, silicon carbide, ceramics (porcelain) and metallic alloys. It is recommended to follow good industrial hygiene practice, which includes reducing airborne exposures to the lowest feasible level for all constituents of all dental laboratory substances. NTP anticipates or confirms that Chromium to be human carcinogens. IARC classifies Chromium as possibly carcinogenic to humans.

Inhalation: May cause irritation to the nose, throat, lungs and mucous membranes.

Eyes: May cause irritation

Skin: May cause in some sensitive individuals an allergic response.

Ingestion: Not considered as a potential route.

Section 4 - First Aid Measures

Inhalation: Remove to fresh air. If breathing is becomes difficult seek immediate medical attention.

Eyes: If contact occurs, flush eyes immediately with water for 15 minutes. If irritation develops, seek medical attention.

Skin: If contact occurs, wash skin immediately with soap and water. If product is hot, immediately immerse or flush the affected area with large amounts of cold water to dissipate heat. Cover the affected area with gauze and seek medical attention.

Ingestion: Do not induce vomiting. Never give anything by mouth to unconscious person. Seek medical attention.



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Section 5 - Fire Fighting Measures

Extinguishing Media: Not combustible	Auto-ignition Temperature: N/A
OSHA Flammability Classification: None	Explosive Limit(s): No known unusual hazards
Flash Point/ Method: N/A	

Section 6 - Accidental Release Measures

Spill Release Procedures:

Allow molten material to solidify and scrape up. Collect material and place in disposal container. Dispose in accordance with local, state, provincial and federal laws and regulations. Avoid contamination of ground water and soil.

Section 7 - Handling and Storage

Handling: Do not inhale fumes from heated material or dust when grinding. Use with adequate ventilation. Wear protective eye and clothing during usage. Minimize dust generation and accumulation.

Storage Precautions: Store in closed container in a dry place away from incompatible materials.

Section 8 - Exposure Controls & Personal Protection

Occupational Exposure Limits:

Nickel	0.1 mg/m ³ OSHA PEL, 0.1 mg/m ³ OSHA TWA
Chromium	0.1 mg/m ³ OSHA PEL, 0.5 mg/m ³ OSHA TWA
Molybdenum	15 mg/m ³ OSHA PEL, 5 mg/m ³ OSHA TWA

Ventilation: Use adequate local ventilation to control airborne exposure to keep below occupational exposure limits.

Respiratory Protection: In case of exposure to fumes from hot processing or dust from grinding, use appropriate NIOSH-approved respiratory protective equipment.

Eye Protection: Wear safety glasses with side shields.

Skin Protection: Gloves may be desirable for specific work situations. Wear a flame retardant apron when melting.

Other Protective Equipment: A safety shower and eye wash fountain should be readily available. It is recommended that a hazard assessment in accordance with the OSHA Personal Protective Equipment (PPE) Standard in 29 C.F.R. §1910.132 be conducted before using this product in order to identify additional PPE requirements.

Section 9 - Physical & Chemical Properties

Boiling Point: N/A	Specific Gravity: 7.7
Melting Range: 2250 - 2350° F (1232 - 1288° F)	Evaporation Rate: N/A
pH: N/A	Solubility in Water: N/A
Vapor Pressure: N/A	Appearance: Solid
Vapor Density: Heavier than air (i.e., > 1)	Odor: Odorless

Section 10 - Stability & Reactivity Data

Stability: Stable

Hazardous Polymerization: Will not occur under normal conditions.

Conditions to Avoid: None in applicable use.

Incompatibility with Other Materials: No known incompatibility with other materials



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Hazardous Decomposition Products: No known hazardous decomposition products.

Section 11 - Toxicological Information

Toxicological Information: None available

Section 12 - Ecological Information

Ecological Information: Considered chemically inert in the environment.

Section 13 - Disposal Considerations

Waste Disposal Methods: Follow all federal, state, and local regulations.

Section 14 - Transport Information

U.S. DOT Information: Not regulated.

Section 15 - Regulatory Information

Federal Regulatory Information:

OSHA: This product does contain hazardous material as defined in Section 3. Standard 29 CFR 1910.132.

EPA: This product is not defined as hazardous waste per 40 CRF 261.

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III

Section 313: This product contains components subject to reporting requirements.

State Regulatory Information:

Canada: This product is listed on the DSL.

California: Proposition 65: This product contains substances known to the State of California to cause cancer.

Section 16 - Other Information

The information and recommendations above are believed to be accurate and represent the best information currently available to us. The person receiving the above material should make their own determination as to the suitability for their use. Talladium makes no warranty expressed or implied with respect to this information and assumes no liability resulting from its use.