

# TALLADIUM, INC. SAFETY DATA SHEET 27360 W. Muirfield Lane, Valencia • California 91355 (661) 295-0900 • (800) 221-6449

#### Section 1 - Product and Company Identification

Issue Date: 09/06/1985 Review Date: 08/26/2016

Revised Date: 08/08/2016

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 Telephone: (661)-295-0900

General Information Telephone: (661)-295-0900 Emergency Telephone: Not required by regulations.

Section 2 -	${\bf Composition/Information}$	on Ingredients
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C.A.S	% Range By Weight	OSHA	ACGIH
4		PEL (mg/m³)	TLV (mg/m³)
7740-02-0	60 – 65 %	1.0	1.0
7440-47-3	17 – 32 %	0.1	0.2
7439-98-7	4.0 - 8.0 %	0.05	0.05
7429-90 <b>-</b> 5	4.0 - 6.0 %	0.05	0.05
7440-32-6	<1.00 %	0.05	0.05
	7740-02-0 7440-47-3 7439-98-7 7429-90-5	7740-02-0 60 - 65 % 7440-47-3 17 - 32 % 7439-98-7 4.0 - 8.0 % 7429-90-5 4.0 - 6.0 %	PEL (mg/m³) 7740-02-0 60 - 65 % 1.0 7440-47-3 17 - 32 % 0.1 7439-98-7 4.0 - 8.0 % 0.05 7429-90-5 4.0 - 6.0 % 0.05

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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Emergency Telephone: Not required by regulations.

Valencia, California 91355 United States of America General Information Telephone: (661)-295-0900

Section 2 - Composition/Information on Ingredients

SUBSTANCE	C.A.S	% Range By Weight	OSHA	ACGIH
			PEL (mg/m³)	TLV (mg/m <sup>2</sup>
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	<1.00 %	0.05	0.05
In compliance with	ADA Guidelines for Pa	artial Dental Alloys		

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#### Section 5 - Fire Fighting Measures

Extinguishing Media: Not combustible

OSHA Flammability Classification: None

Flash Point/ Method: N/A

Auto-ignition Temperature: N/A

Explosive Limit(s): No known unusual hazards

#### 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<sup>3</sup> OSHA PEL, 0.1 mg/m<sup>3</sup> OSHA TWA

Chromium

0.1 mg/m<sup>3</sup> OSHA PEL, 0.5 mg/m<sup>3</sup> OSHA TWA

Molybdenum

15 mg/m<sup>3</sup> OSHA PEL, 5 mg/m<sup>3</sup> 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.

Eve 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

Melting Range: 2250 - 2350° F (1232 - 1288° F)

pH: N/A

Vapor Pressure: N/A

**Vapor Density:** Heavier than air (i.e., >1)

Specific Gravity: 7.7

Evaporation Rate: N/A Solubility in Water: N/A

Appearance: Solid

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 Hazardous Decomposition Products: No known hazardous decomposition products.

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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.

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