

TALLADIUM, INC.
SAFETY DATA SHEET

27360 W. Muirfield Lane, Valencia • California 91355
(661) 295-0900 • (800) 221-6449

Section 1 - Product and Company Identification

Date of SDS: 10/23/2013

Review Date: 02/26/2018

Revision Date: 02/26/2018

Product Identification: Talladium Ti-Cam

Product Synonym: Titanium Cad-Cam Disc Grade 23

Product Class/Use: Ti-6Al-4V ELI

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	ACGIH TLV (mg/m ³)
Titanium	7440-32-6	46 - 99%	10
Aluminum	7429-90-5	0 - 7%	10
Vanadium	7440-62-2	0 - 4%	10 (Total Dust)
Iron	7439-89-6	0 - 48%	5 (as iron oxide)

In compliance with ADA Guidelines and Directive ISO: 15854:2005. TALLADIUM is an ISO 9001:2000 / ISO 13485:2003 certified company. This device was manufactured to this standard.

Section 3 - Hazards Identification, Including Emergency Overview

NOTE: This product in the solid state does not represent an inhalation, ingestion, or contact hazard. However operations such as grinding, cutting, welding, brazing and melting may release fumes and / or dust, may present health hazards if TLV's are exceeded.

Emergency Overview: Explosion / fire hazards may be present when dust or fines are dispersed in the air or come into contact with certain metal oxides (e.g. rust)

In cases of overexposure the following effects may occur:

Inhalation: Excessive dust or fumes may cause irritation of the upper respiratory tract

Eyes: Excessive dust or fumes may cause irritation

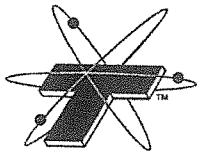
Skin: Prolonged or repeated contact with the skin can cause dermatitis

Section 4 - First Aid Measures

Inhalation: Exposure to excessive levels of metal fumes may cause breathing problems, remove to fresh air and seek immediate medical attention.

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

Skin: Contact with dust may cause irritation. Wash with soap and water for at least 15 minutes. If irritation develops, seek medical attention



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Section 5 - Fire Fighting Measures

NOTE: Dust, small chips, turnings and fines from processing may be readily explosive and ignitable. Keep floor, ledges and beams from accumulating dust or fines to help prevent explosion and igniting of the waste. If waste is ignited, follow the firefighting procedures listed:

Extinguishing Media: Use Class D extinguishing agents on dusts, small chips, turnings and fines or use fluxing salts or dry sand to smother the burning area.

DO NOT USE: Water spray, carbon dioxide, foam or standard dry chemical extinguishers

Section 6 - Accidental Release Measures

Spill Release Procedures: Collect material and place in disposal container or recycle. Follow local, state, and federal regulations.

Section 7 - Handling and Storage

Handling and Storage Precautions: Use with adequate ventilation. Avoid dust generation and accumulation when machining, grinding, sanding or drilling use a water base coolants. Dust collection system must be equipped with a water-type dust collector. **DO NOT USE** compressed air to remove settled material from equipment, floors or ledges. Use non-sparking equipment. Prohibit smoking in the area. Store in cool dry area.

Section 8 - Exposure Controls & Personal Protection

Ventilation: Use with adequate explosion-proof ventilation and water-type dust collector system

Respiratory Protection: Use appropriate NIOSH-approved respiratory protective mask.

Eye Protection: Wear safety glasses with side shields.

Skin Protection: Gloves and protective clothing may be desirable for specific work situations.

Section 9 - Physical & Chemical Properties

Melting Point: 2840 - 3344°F (1560 - 1840°C)

Physical State: Solid

Appearance: Gray color

Odor: Odorless

Density: 4.51 g/cm³

Solubility in Water: Insoluble

Section 10 - Stability & Reactivity Data

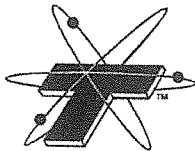
Stability: Stable

Conditions to Avoid:

- 1) Keep work areas free of the waste
- 2) Keep waste away from any source of heat and open flame and store wet
- 3) Use non-spark causing metal equipment
- 4) Maintain a humidity level above 50% to prevent an electrostatic build-up

Incompatibility with Other Materials: Explosion / fire hazards may be present when dust or fines are dispersed in the air or come into contact with certain metal oxides (e.g. rust)

Hazardous Decomposition Products: Metallic dust or fumes may be produced during machining, grinding, or welding



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Section 11 - Toxicological Information

Toxicological Information: The toxicity of titanium has been found to be relatively inert. Under normal conditions it does not represent an inhalation, ingestion or contact health hazard.

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

SARA: Some components of this product are classified as toxic by the EPA in 40 CFR 372.65 and subject to reporting requirements of SARA Title III Section 313 and 40 CFR 372.45

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.