



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: 11/25/1985 **Review Date:** 04/25/2016
Revision Date: 04/25/2016
Product Identification: Post Solder Flux #701
Product Class/Use: For brazing 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)
Potassium Fluoride	7789-23-3	20 - 30%	2.5	2.5
Potassium Difluorodihydroxyborate	85392-66-1	> 50%	2.5	2.5
Water			^	^

^ This material is a non-hazardous substance

Section 3 - Hazards Identification, Including Emergency Overview

Avoid breathing dust or fumes. Use only in well ventilated area.

Physical hazards: Not classified

OSHA defined hazards: Not Classified

Health hazards:

Inhalation: Acute toxicity, category 4

Eyes: Will cause irritation.

Reproductive: toxicity (unborn child)
expected by the ingestion route only, category 2

Skin: Acute toxicity, category 4

Ingestion: Acute toxicity, category 4



Section 4 - First Aid Measures

Inhalation: If irritation to the respiratory system or difficulty of breathing occurs, remove to fresh air and seek medical attention.

Eyes: If contact occurs, remove any contact lenses, flush eyes immediately with water for 15 minutes, holding the eyelids apart to ensure rinsing of the whole eye area. Seek immediate medical attention.

Skin: If contact occurs, wash thoroughly with soap and water then rinse. If irritation occurs seek medical attention.

Ingestion: Do NOT induce vomiting. If vomiting occurs, keep head low to keep out of the lungs. Drink 8 ounces or more of water if conscious. If the person is unconscious do not give anything by mouth. Seek immediate medical attention.



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Section 5 - Fire Fighting Measures

This product is non-flammable and non-explosive.

Extinguishing Media: Dry chemical, foam, carbon dioxide, water spray. Do not use water jet to extinguish as that would spread the fire.

Specific hazards: During fire hazardous combustion products are released that may include: Hydrogen fluoride, fluorine, boron and potassium-containing compounds.

Special precautions: Firefighters need self-contained breathing apparatus and full protective clothing during fire.

General fire hazards: No unusual fire or explosion hazards noted.

Section 6 - Accidental Release Measures

Spill Release Procedures: Avoid inhalation of vapors and spray mists. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not return spills to original container for re-use. Absorb in vermiculite, dry sand or earth and place into appropriate container. Avoid contamination of ground water and soil. Follow local, state, provincial and federal laws and regulations.

Section 7 - Handling and Storage

Handling and Storage Precautions:

Use with adequate ventilation. Avoid breathing vapors from heated material. Do not handle food, drink or smoke while using this product. Wash thoroughly after handling.

Keep out of the reach of children. Keep away from food and drink. Store in tightly closed original container in a dry cool and well ventilated area away from incompatible materials (*see section 10*).

Section 8 - Exposure Controls & Personal Protection

(*See section 2 for exposure control*)

Ventilation: Use adequate exhaust ventilation to maintain exposure levels below applicable limits.

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

Eye Protection: Wear safety glasses with side shields.

Skin Protection: Wear protective gloves. Use of impervious apron is recommended.

Section 9 - Physical & Chemical Properties

Boiling Point: No data

Melting Point: No data

Relative Density temperature: 1.5 – 1.7

Appearance: White paste

Odor: Odorless

Solubility in Water: miscible in water

Section 10 - Stability & Reactivity Data

Stability: Stable under normal conditions.

Reactions: Stable and non-reactive under normal conditions of use, storage and transport.

Hazardous Decomposition Products: Hydrogen fluoride, fluorine-, boron-, and potassium-containing compounds.

Conditions to avoid: Contact with incompatible materials.

Incompatibility Materials: Strong oxidizing agents, strong acids, halogenated compounds and Silicate-based materials.



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Section 11 - Toxicological Information

Acute toxicity: Harmful if inhaled, swallowed or contact with skin. Causes eye burns. Prolonged or repeated contact with product may cause burns to the skin. Dust irritates the respiratory system and may cause coughing and difficulties in breathing.

Inhalation: Harmful by inhalation. Dust may irritate respiratory system.

Skin: Harmful with prolonged or repeated contact on skin. May dry skin, itching, redness, burning and cause edema. Hydrogen fluoride, a possible decomposition product, is extremely corrosive and a poison by all routes of entry. It can penetrate the skin and produce burns, which may not be immediately painful or visible; the burns impact the lower layers of skin and bone tissue. 20 percent or more exposures of the body to hydrogen fluoride can be fatal through systemic fluoride poisoning.

Eye contact: May cause eye burns, itching, redness, burning, and tearing. Risk of serious damage to eyes.

Ingestion: Harmful if swallowed. May produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract.

Symptoms related to the physical, chemical and toxicological characteristics: Over exposure may cause headache, dizziness, tiredness, nausea and vomiting. Symptoms may be delayed.

Section 12 - Ecological Information

Eco toxicity: The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. Large amounts of the product may affect the acidity (pH-factor) in water with possible risk of harmful effects to aquatic organisms.

Degradability: No data available

Bio accumulative potential: No data available

Mobility in soil: No data available

Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Section 13 - Disposal Considerations

Waste Disposal Methods: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not dispose waste product into sewers, water or soil. Follow all federal, state, and local regulations.

Section 14 - Transport Information

U.S. DOT; TDG; IATA; IMO Information: Not regulated as dangerous goods.

Section 15 - Regulatory Information

United States Federal Regulations:

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory list.

CERCLA/SARA Hazardous Substances: N/A

TSCA Section 12(b) Export Notification (40CFR 707, Subpt. D): Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed

CERCLA Hazardous Substance List (40 CFR 302.4): Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA): Hazard categories: *Immediate Hazard - Yes; Delayed Hazard - Yes; Fire Hazard - No; Pressure Hazard - No; Reactivity Hazard - No.*



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SARA 302 Extremely hazardous substance: Not listed

SARA 311/312 Hazardous chemical: Yes

SARA 313 (TRI reporting): Not regulated

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Not regulated

Safe Drinking Water Act (SDWA): Not regulated

US state regulations: This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US. Massachusetts RTK – Substance List: Not regulated

US. New Jersey Worker and Community Right-to-know Act: Fluorides (CAS 16984-48-8); Potassium Fluoride (CAS 7789-23-3)

US. Pennsylvania Worker and Community Right-to-know Law: Fluorides (CAS 16984-48-8); Potassium Fluoride (CAS 7789-23-3)

US. Rhode Island RTK: Not regulated

US. California Proposition 65: This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories:

Australian Inventory of Chemical Substances (AICS): Yes

Canada Domestic Substances List (DSL): Yes

Canada Non-Domestic Substances List (NDSL): No

China Inventory of Existing Chemical Substances in China (IECSC): Yes

Europe European Inventory of Existing Commercial Chemical Substances (EINECS): Yes

Europe European List of Notified Chemical Substances (ELINCS): No

Korea Existing Chemicals List (ECL): Yes

New Zealand Inventory: Yes

Philippine Inventory of Chemicals and Chemical Substances (PICCS): Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory: Yes

Note: A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Section 16 - Other Information

HMIS® Ratings:

Health – 3*

Flammability – 0

Physical Hazard – 0

NFPA Ratings:

Health – 3

Flammability – 0

Reactivity - 0

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.