



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

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**Section 1 - Product and Company Identification**

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**Date of SDS:** 09/06/1987

Review Date: 04/27/2016

**Revision Date:** 04/27/2016

**Product Identification:** Premium Pre-Solder Flux #700

**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.

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**Section 2 - Composition/Information on Ingredients**

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SUBSTANCE	C.A.S	% Range by Weight	OSHA PEL (mg/m <sup>3</sup> )
Potassium Fluoroborate	12228-71-6	30 – 45 %	2.5
Potassium Tetraborate	1332-77-0	15 – 25 %	5.0
Boric Acid	10043-35-3	15 - 30%	10
Potassium Fluoroborate	14075-53-7	7 – 15 %	2.5

None of the materials in this product are listed in NTP, IARC OR OSHA as carcinogens.

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**Section 3 - Hazard Identification**

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**Health hazards:**

**Inhalation:** Irritating to the respiratory system.

**Skin:** Irritating to skin.

**Eyes:** Will cause irritation.

**Ingestion:** Toxic if ingested.

**Other:** May cause infertility and may cause harm to unborn child.

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**Section 4 - First Aid Measures**

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

**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. Rinse out mouth, drink 8 ounces or more of water or milk 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

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**Extinguishing Media:** This product is non-flammable. Use appropriate means to extinguish surrounding fire.

**Specific hazards during a fire:** Avoid inhalation of fumes or vapors. Normal caution when using chemicals.

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

**General fire hazards:** Fluorides can produce poisonous gases during a fire.

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### Section 6 - Accidental Release Measures

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**Spill Release Procedures:** Avoid inhalation of airborne dust. Ensure adequate ventilation. Absorb in dry sand or earth and place into appropriate container. Avoid runoff into storm sewers and ditches. Do not allow contamination of ground water and soil. Place into proper disposal container(s). Follow local, state, provincial and federal laws and regulations.

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### Section 7 - Handling and Storage

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**Handling and Storage Precautions:**

Use with adequate ventilation. Avoid breathing vapors from heated material. Avoid contact with eyes, skin and clothing. 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, do not store above 104°F (40°C) and well ventilated locked area away from incompatible materials (*see section 10*).

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### Section 8 - Exposure Controls & Personal Protection

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*(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 chemical goggles and face shield with UV/IR protection based on the welding process in use.

**Skin Protection:** Wear PVA/Latex or other chemical resistant gloves, lab coat or coveralls.

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### Section 9 - Physical & Chemical Properties

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**Boiling Point:** N/A

**Melting Point:** 932°F (500°C)

**Specific Gravity (water=1):** 1.6

**Appearance:** Black paste

**Odor:** Odorless

**Solubility in Water:** Moderate

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### Section 10 - Stability & Reactivity Data

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**Stability:** Stable

**Reactions:** Hazardous polymerization will not occur.

**Incompatible materials:** Glass or porcelain

**Hazardous Decomposition Products:** Fluorides with high heat.

**Conditions to avoid:** Elevated temperatures.



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## Section 11 - Toxicological Information

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**Inhalation of dust/vapors:** May cause irritation and burns to nose and throat.

**Skin:** May cause irritation.

**Eyes:** May cause irritation.

**Ingestion is not a likely route of exposure:** Avoid ingestion.

**Carcinogenicity:** Non-carcinogenic.

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## Section 12 - Ecological Information

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**Biodegradability:** Unknown

**Environmental toxicity:** This material has not been tested for environmental effects.

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## Section 13 - Disposal Considerations

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**Waste Disposal Methods:** Collect and dispose of in accordance with federal, state, and local regulations for wastes containing inorganic fluorides.

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## Section 14 - Transport Information

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**DOT:** Non-hazardous

**Identification Number:** N/A

**DOT shipping description:** N/A

**Packing Group:** N/A

**Hazard Class:** N/A

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## Section 15 - Regulatory Information

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**OSHA hazardous chemical according to 29 CFR 1910.1200:** None

**Carcinogenicity Classification (Components Present at 0.1% or more):** Non-carcinogenic.

**International Agency for Research on Cancer (IARC):** Not listed

**American Conference of Governmental Industrial Hygienists (ACGIH):** Not listed

**National Toxicology Program (NTP):** Not listed

**Occupational Safety and Health Administration (OSHA):** Not listed

None of the components of this product are listed on the U.S. toxic substances control act inventory or otherwise comply with TSCA pre-manufacture notification requirements.

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## Section 16 - Other Information

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### H.M.I.S. information:

Health – 2

Flammability – 0

Reactivity – 1

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.