



MSDS Name	Silver Brazing
Revised	January 29, 2004

## MATERIAL SAFETY DATA SHEET (MSDS)

For Welding Consumables and Related products  
Conforms to OSHA Hazard Communication Standard 29CFR 191.1200  
Standard Must Be Consulted for Specific Requirements

### Section I – Identification

Supplier: Universal Wire Works Inc.	Telephone Number: 713-649-3828
Address: 15 Drennan St, Houston, TX 77003	Emergency Number: 713-649-3828
Classification:	Specifications: AMS 3410

**H.M.I.S. Information:** HEALTH = 2 FLAMMABILITY = 0 REACTIVITY = 0

### Section II – Hazardous Materials\*

**IMPORTANT:** This section covers the materials for which the product was manufactured. The fumes and gases produced during welding with the normal use of this product are covered.

\*The term "Hazardous Materials" should be interpreted as a term required and defined in OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200); however, the use of this term does not necessarily imply the existence of any hazard.

Flux or other Ingredients	% Of Weight	CAS No.	Exposure Limit (mg/m <sup>3</sup> )	
			OSHA PEL	ACGIH TLV
Potassium Fluoroborate	30-45	12228-71-6	2.5 mg/m <sup>3</sup>	
Potassium Tetraborate	15-25	1332-77-0	5.0 mg/m <sup>3</sup>	
Boric Acid	15-30	10043-35-3	10 mg/m <sup>3</sup>	
Potassium Fluoroborate	7-15	14075-53-7	2.5 mg/m <sup>3</sup>	

Unlisted percentages are non-hazardous stabilizers, activators and water. None of the materials in this product are listed in NTP, IARC or OSHA as carcinogens.

### Section III – Physical

<b>Boiling Point:</b> NA	<b>Specific Gravity (Water = 1):</b> 1.6
<b>Vapor Pressure (mm Hg):</b> NA	<b>Percent Volatile by Volume:</b> 30%
<b>Vapor Density (Air = 1):</b> NA	<b>Evaporation Rate (Butyl Acetate = 1):</b> 0.3
<b>Melting Point:</b> 500 C	<b>Solubility in Water:</b> Moderate
<b>Reactivity in Water:</b> None	<b>Appearance and Odor:</b> White, Odorless Paste

### Section IV – Fire and Explosion Hazard

<b>Flash Point (Method Used):</b> None	<b>Flammable Limits:</b> Lower-NA, Upper-NA
<b>Extinguishing Media:</b> Not Needed	<b>Auto Ignition Temperature:</b> None
<b>Special Fire Fighting Procedures:</b> Normal Caution When Using Chemicals	
<b>Unusual Fire and Explosion Hazards:</b> Fluorides	

### Section V – Health Hazard Data

#### EMERGENCY AND FIRST AID PROCEDURES

<b>Inhalation:</b>	Remove to Fresh Air
<b>Eyes:</b>	Flush with Water for 10 Minutes. Call Physician.
<b>Skin:</b>	Wash Thoroughly with Water.

**Ingestion:** If Patient is Fully Conscious, Give Two Glasses of Water and Induce Vomiting. Obtain Medical Attention Immediately.

**Primary Routes of Entry into Body:** Fume Inhalation, Ingestion, Skin and Eyes.

**Symptoms of Overexposure:** Salivation, Coughing, Choking, Chills, May Cause Weight loss, Brittle Bones, Anemia and Stiff Joints.

**Medical Conditions Generally Aggravated by Exposure:** Any Weakness of the Lungs, Kidneys or Liver will be Aggravated.

**Chemical Listed as Carcinogen or Potential Carcinogen:** None

**OSHA Permissible Exposure Limit (PEL):** 2.5 mg/m<sup>3</sup>

**ACGIH Threshold Limit Value (TLV):** 2.5 mg/m<sup>3</sup>

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## VI – Stability and Reactivity

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**Stability:** Product is Stable

**(Conditions to Avoid):** Excess Heat

**Incompatibility:** Glass or Porcelain

**Hazardous Decomposition Products:** Fluorides with High Heat.

**Hazardous Polymerization:** Will Not Occur

**(Conditions to Avoid):** NA

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## Section VII – Accidental Release Measures

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**Steps to be Taken in Case Material is Spilled:** Clean up Paste and Flush Remaining Material with Lots of Water

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## Section VIII – Control Measures

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**Ventilation:** Yes

**Local Exhaust:** Yes

**Protective Gloves:** Recommend, NIOSH Approved

**Eye Protection:** Safety Goggles

**Mechanical (General):** Yes

**Respiratory Protection (Type):** NIOSH Approved Respirator.

**Other Protective Clothing or Equipment:** Rubber Apron

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## Section IX - Handling and Storage

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**Precautions to be Taken in Handling and Storage:** Store in Plastic Containers in Cool Area. Do Not Store in glass or Porcelain Container. Wash Thoroughly After Use.

**Work/Hygienic Practices:** Avoid Contact with Skin, Eyes and Clothing.

**Other Precautions:** Keep Container Away From Excessive Heat.

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## Section X – Transportation and Disposal Considerations

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**D.O.T. Proper Shipping Name:** Non-Hazardous

**Hazard Class:** NA

**Identification Number:** NA

**Packing Group:** NA

**Type D.O.T. Label Required Information:** NA

**Waste Disposal Method:** Dispose in Accordance with EPA Regulations.

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## Disclaimer of Liability

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