



MSDS Name	Silver Brazing
Revised	July 2012

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 ³)	
			OSHA PEL	ACGIH TLV
Potassium Fluoroborate	30-45	12228-71-6	2.5 mg/m ³	
Potassium Tetraborate	15-25	1332-77-0	5.0 mg/m ³	
Boric Acid	15-30	10043-35-3	10 mg/m ³	
Potassium Fluoroborate	7-15	14075-53-7	2.5 mg/m ³	

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

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

Section IV – Fire and Explosion Hazard

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

Section V – Health Hazard Data

EMERGENCY AND FIRST AID PROCEDURES

Inhalation:	Remove to Fresh Air
Eyes:	Flush with Water for 10 Minutes. Call Physician.
Skin:	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/m³

ACGIH Threshold Limit Value (TLV): 2.5 mg/m³

VI – Stability and Reactivity

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

Section VII – Accidental Release Measures

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

Section VIII – Control Measures

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

Section IX - Handling and Storage

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.

Section X – Transportation and Disposal Considerations

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.

Disclaimer of Liability

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