

MATERIAL SAFETY DATA SHEET - J79-200

I. MATERIAL IDENTIFICATION

Manufacturer's Name: Ampco Metal  
Address: 1745 So. 38th Street, P.O. Box 2004  
Milwaukee, WI 53201  
Telephone Number: (414) 645-3750  
Material Name: Ampco Weld Flux

II. HAZARDOUS INGREDIENTS

	<u>CAS Number</u>	<u>%</u>	<u>OSHA 8-hr TWA</u>	<u>ACGIH 8-hr TWA</u>
Sodium Fluoraluminate	15096-52-3	40 max.	2.5 mg/m <sup>3</sup> (F)	2.5 mg/m <sup>3</sup> (F)
Sodium Fluoride	7681-49-4	Balance	2.5 mg/m <sup>3</sup> (F)	2.5 mg/m <sup>3</sup> (F)

III. PHYSICAL DATA

Melting Point (F): Not Applicable  
Vapor Pressure: NA  
% Volatile by Volume: G/100 ML sample at 110 C -- 0.019  
Evaporation Rate (at 110 C) Less than 0.0001  
Solubility in Water: G/L ML H<sub>2</sub>O at 25 C--5.74  
Appearance and Odor: White Powder with No Odor  
Specific Gravity: 2.5 G/ML  
Vapor Density: NA

IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point: NA  
Flammable Limits: LEL = NA  
Extinguishing Media: Use firefighting medium appropriate for surrounding fire.  
Method Used: NA  
UEL = NA

Special Fire Fighting Procedures: Use fire fighting methods that are appropriate for surrounding fire. Firefighters should wear self contained breathing apparatus and protective clothing.

V. HEALTH HAZARD DATA

Permissible Exposure Limits and Threshold Limit Values: See Section II

Route(s) of Entry:  
Inhalation: Yes  
Skin: Yes  
Ingestion: Yes

## MATERIAL SAFETY DATA SHEET - J79-200, Continued

## Effects of Overexposure:

Hazards associated with excessive exposure to fluorides include corrosive burns to the eyes, nose, throat, and skin; chronic bone changes, and acute systemic poisoning (usually associated with ingestion). Fluorides are irritants to the eyes and respiratory tract and long continued exposure by inhalation and/or ingestion may lead to chronic poisoning. Fluoride which is absorbed by the body is partly removed by the skeletal system and excessive accumulation in the bones can be disabling through bone damage. The IARC has identified fluorides as an indefinite animal carcinogen.

## Emergency and First Aid Procedures:

Eye Contact: Flush well with running water occasionally lifting the lower and upper eyelids. Get medical attention immediately. Contact lenses should not be worn when working with this material.

Skin Contact: Wash immediately with mild detergent or soap and water and flush for 15-60 minutes. Seek medical attention for burns.

Inhalation: Remove to fresh air. Get medical attention immediately.

Ingestion: Seek medical attention immediately.

## VI. REACTIVITY DATA

Stability: Stable

Conditions to Avoid: Avoid contact with strong acids. Sodium fluoride reacts with acids evolving hydrogen fluoride. This is a toxic, irritating, corrosive gas which is apparent as white fumes.

Incompatibility (Materials to avoid): Acids.

Hazardous Polymerization: Will Not Occur

## VII. PRECAUTIONS FOR SAFE HANDLING OR USE

Steps to Be Taken in Case Material is Released or Spilled: If large quantities of dust are spilled, prevent generation of airborne dust. Follow federal, state, and local regulations concerning the disposal of waste.

Waste Disposal Method: Dispose of in accordance with federal, state, and local regulations. Cleanup personnel should wear respirators and protective clothing.

Precautions to be Taken in Handling and Storing: Store material away from incompatible materials.

Other Precautions: See all other sections of this MSDS.

## VIII. CONTROL MEASURES

Respiratory Protection: If exposure above the PEL or TLV, NIOSH approved respirator for fluorides. Always evaluate the fume produced by the welding process and provide adequate respiratory protection as required.

Ventilation: Required if dust or fume created in handling or working with this material.

Local Exhaust: Required if dust or fume created in handling or working on this material.

Mechanical (general): As above to reduce airborne dust or fume levels.

Protective gloves: Required for handling the product as well as for welding operations. Select glove approved for the specific operation.

Eye Protection: Use approved Dust resistant goggles in handling material. Special eye protection required for welding operations. Minimum requirements include welding helmet and/or specially tinted lenses during weld operations.

Other Protective Clothing or Equipment: Prevent skin contact with powder. Use faceshields, body clothing, gloves, or whatever coverings are required to prevent skin contact. Use leather or equal protective gloves and body clothing while welding.

Work/Hygiene Practices: Wash hands and face before eating, drinking, or smoking after contact with powder. If clothing becomes contaminated with powder, remove and place in closed containers for proper washing.

MATERIAL SAFETY DATA SHEET - J79-200, Continued

IX. SPECIAL PRECAUTIONS

WARNING

Avoid contact of the skin and eyes with this material. Wear proper protective clothing when handling and working with this product and always wear approved, recommended safety protective equipment.

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