

Victor

MATERIAL SAFETY DATA SHEET

Date Prepared: October 12, 1988

Emergency Phone No. 214/590-5000

File No. MSDS8/1

Identity: AK-1 Aluma-Weld Kit 0386-0423, Flux

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This MSDS is based on air/fuel or oxy/fuel process. There may be other cautions for electric process.

SECTION II - Hazardous Ingredients/Identify Information

(Specific Chemical Identity)	mg/m ³		OTHER LIMITS
	OSHA PEL	ACGIH TLV	RECOMMENDED
Hazardous Components			
Zinc Chloride Fumes	1	1	N/A
Inorganic Florides	2.5	2.5	N/A
Bismuth Trichloride	N/A	N/A	N/A

SECTION III - Physical/Chemical Characteristics

Boiling Point - N/A | Vapor Pressure (mmHg) - N/A | Vapor Density (AIR=1) - N/A | Solubility in Water - Partially
 Melting Point N/A | Evaporation Rate (Butyl Acetate=1 0 | Appearance & Odor - Grey powder, low odor

SECTION IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Non Flammable	Flammable Limits	N/A	LEL	N/A	UEL	N/A
Extinguishing Media	N/A						
Special Fire Fighting Procedures	Wear NIOSH approved self-contained breathing apparatus.						

Unusual Fire and Explosion Hazards: May release fumes of hydrogen chloride, ammonium chloride, zinc oxide, zinc chloride and ammonia when exposed to fire.

SECTION V - Reactivity Data

Stability	Unstable		Conditions to Avoid: Do not store unused, wet product. Slow evolution of flammable hydrogen gas may occur.
	Stable	X	
Incompatibility (Materials to Avoid)	Cyanides, Sulfides, Acids, Bases		
Hazardous Decomposition or Byproducts:	May release fumes of hydrogen chloride, ammonium chloride, zinc oxide, ammonia, hydrogen.		
Hazardous Polymerization	May Occur		Conditions to Avoid: N/A
	Will not Occur	X	

SECTION VI - Health Hazard Data

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

Health Hazards (Acute and Chronic)

EYES: Irritating. May cause eye burns. SKIN: Irritating. May cause skin burns.

INHALATION: Irritating to lungs and upper respiratory tract. May cause difficult breathing.

INGESTION: Toxic. May cause kidney and liver damage.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	No	No	No

Signs and Symptoms of Exposure: Irritation at site of contact. Abdominal pain, difficult breathing, weakness, convulsions, loss of consciousness, nausea, diarrhea.

Medical Conditions Generally aggravated by Exposure: Pre-existing lung conditions.

Emergency and First Aid Procedures - Eyes: Flush with plenty of water for at least 15 minutes. Get medical attention. Skin: Wash with soap & water. Get medical attention if irritation occurs. Inhalation: Remove victim to fresh air. Give oxygen or artificial respiration as needed. Get medical attention. Ingestion: If victim is conscious, administer large quantities of water and induce vomiting by touching back of throat with finger. Get medical attention immediately.

SECTION VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled - Put on recommended protective equipment (see Section VIII below), sweep up spill and dispose of waste in container. Avoid dusting. Flush spill area with water.

Waste Disposal Method:

Dispose of in accordance with local, state and federal regulations.

Precautions to Be Taken in Handling and Storing:

Avoid physical contact and breathing dust or fumes. Store in a cool, dry place.

Other Precautions:

Dispose of any unused, wet product. Do not store.

SECTION VIII - Control Measures

Respiratory Protection (Specify Type):

NIOSH approved dust respirator (such as 3M Model 9920) in conjunction with ventilation.

Ventilation	Local Exhaust	Recommended	Special	N/A
	Mechanical (General)	Yes	Other	N/A

Protective Gloves	Rubber Gloves	Eye Protection	Goggles

Other Protective Clothing or Equipment:

N/A

Work/Hygienic Practices - Avoid physical contact and breathing dust or fumes. Wash thoroughly with soap and water after use and before eating, drinking or smoking.