

MATERIAL SAFETY DATA SHEET

For Welding Consumables and Related Products Conforms to OSHA Hazard Communication Standard 29CFR 1910.1200 Standard Must Be Consulted for Specific Requirements U.S. ALLOY CO. dba Washington Alloy 7010-G Reames Rd. Charlotte, NC 28216 www.weldingwire.com

American Welding Society Sustaining Company Member

MSDS NO:Solder Kits REVISED7-2008

SECTION I -- IDENTIFICATION

Manufacturer/Supplier: Washington Alloy Company Address: 7010–G Reames Road, Charlotte, NC 28216 **Trade Name:** Superflow USA 96/4 Kit Superflow USA 780 Kit Telephone No: 704-598-1325 Emergency No: 704-598-1325

Family: Soft solder alloy

SECTION II - COMPOSITION INFORMATION for 4 items

Components	CAS Number	%	OSHA PEL
96/4 Solder Wire			
Tin	7440-31-5	Balance	2.0 mg/m^3
Silver ⁽¹⁾	7440-22-4	3.0-5.0	0.01 mg/m^3
96/4 Flux			C
Ammonium Chloride	12125-02-9	4-15	NA
Hydrochloric Acid	7647-01-0	3-15	5PPM
Zinc Chloride	7646-85-7	30-45	1PPM
780 Solder Wire			
Aluminum	7429-90-5	Balance	10.0 mg/ m^3
Zinc	7440-66-6	1.5-3	10.0 mg/m^3
780 Flux			-
Cesium / Aluminum Fluoride			
Compounds	138577	> 65 %	2.0 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. NIOSH classifies brazing fumes as a possible carcinogen. Threshold limit Value for brazing is 5 mg/m^3

SECTION III - HEALTH HAZARDS

EMERGENCY AND FIRST AID PROCEDURES

Remove to Fresh Air or Administer Oxygen. Call Physician.	
Flush with Water for 15 Minutes. Call Physician.	
Wash Thoroughly with Water.	
If Patient is Fully Conscious, Rinse Mouth.	
Obtain Medical Attention Immediately.	

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

Symptoms of Overexposure: Irritation or dryness of the nose and throat, Salivation, Coughing, Choking, Chills, headache, thirstiness and tiredness. Molten alloy may burn on contact.
Medical Conditions Generally Aggravated by Exposure: Respiratory, Skin disorders
Chemical Listed as Carcinogen or Potential Carcinogen: None
OSHA Permissible Exposure Limit (PEL): 0.01 mg/m³ (Silver)

ACGIH Threshold Limit Value (TLV): 0.01 mg/m³(Silver) H.M.I.S. Information: HEALTH = 1 FLAMMABILITY = 0 REACTIVITY = 0 Page 1

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammable Limits: Lower-NA, Upper-NA Flash Point: (Method Used): None **Extinguishing Media:** All Auto Ignition Temperature: None Special Fire Fighting Procedures: Normal Caution When Using metals Unusual Fire and Explosion Hazards: May produce a variety of metal oxides and fumes when melted

SECTION V - ACCIDENTAL RELEASE MEASURES

Steps to be taken in Case Material is spilled: Solid wire - N/A, Flux spill - use appropriate safety equipment and transfer into safe container

SECTION VI - STABILITY AND REACTIVITY

Stability: Product is Stable Conditions to Avoid: Excess Heat Incompatibility: Strong acids, oxidizers or bases like sodium hydroxide Hazardous Decomposition Products: Metal oxides and fumes when melted. Hazardous Polymerization: Will Not Occur

SECTION VII - CONTROL MEASURES

Ventilation: Yes Protective Gloves: Recommend, NIOSH Approved Mechanical (General): Yes **Respiratory Protection (Type):** NIOSH Approved Respirator. Other Protective Clothing or Equipment: Leather Apron as needed

SECTION VIII - HANDLING AND STORAGE

Precautions to be Taken in Handling and Storage: Store in Cool Area. Wash hands and clothing thoroughly after use.

Work/Hygienic Practices: Avoid Contact with Skin, Eves and Clothing, Avoid inhalation or ingestion Other Precautions: Keep Container Away From Excessive Heat with proper labels.

SECTION IX - PHYSICAL AND CHEMICAL CHARACTERISTICS for Solder

Boiling Point: About 4100° F Vapor Pressure (mm Hg): NA Vapor Density (Air = 1): NA **Melting Point:** 430° F (96/4) 780° F (780) Reactivity in Water: None

Specific Gravity (Water = 1): 6.72

Evaporation Rate (Butyl Acetate = 1):NA

Solubility in Water: Insoluble Appearance and Odor: Silver gray, odorless

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.

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Local Exhaust: Yes **Eve Protection:** Safety Goggles