

Section I – Identification

Manufacturer/Supplier: Weldtool Technologies Inc.

Telephone No: (714) 646-7527

Address: 3911 E. La Palma Ave, Anaheim, CA 92807

Emergency No: (714) 646-7527

Trade Name: Superflow USA 96/4 Kit Superflow USA 780 Kit

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		
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/m³

Section III – Health Hazards

Emergency and First Aid Procedures

Inhalation: Remove to Fresh Air or Administer Oxygen. Call Physician.
Eyes: Flush with Water for 15 Minutes. Call Physician.
Skin: Wash Thoroughly with Water.
Ingestion: 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

Section IV – Fire and Explosion Hazard Data

Flash Point: (Method Used): None

Flammable Limits: Lower-NA, Upper-NA

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

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: 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, Eyes 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

Specific Gravity (Water = 1): 6.72

Vapor Pressure (mm Hg): NA

Vapor Density (Air = 1): NA

Evaporation Rate (Butyl Acetate = 1): NA

Melting Point: 430° F (96/4)

780° F (780)

Solubility in Water: Insoluble

Reactivity in Water: None

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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