

# Material Safety Data Sheet

## Acid Cored Solder Wires MSDS2.5

### Section 1: Identification

Info furnished by: Federated-Fry Metals  
Address: 4100 Sixth Avenue  
Altonna, PA 16602  
Date Effective: 3/31/97  
Emergency Phone: (814) 946-1611  
Chemtec 800-424-9300 (Use only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals.)  
Product or Trade Name: Acid Cored Solder Wires  
Person to Contact: Mark Stalter/Jack Wagner

### Section 2: Constituents

Chem:	CAS	%WT	Carcinogen	TLV ACGIH	OSHA PEL
Tin	7440-31-5	The product Contains one or More of these Metals	No	2.0mg/cu m	2.0mg/cu m (inorganic compounds except oxides)
Lead	7439-92-1	in various	Yes	0.05mg/cu m	0.05mg/cu m
Silver	7440-22-4	percentages.	No	0.1mg/cu m	0.01mg/cu m (dust & Fume)
Bismuth	7440-69-9	“ “ “	No	None estab.	None Estab.
Indium	7440-74-6	“ “ “	No	0.1mg/cu m	0.1 mg/cu m
Antimony	7440-36-0	“ “ “	No	0.5mg/cu m	0.5mg/cu m
Zinc			No	1mg/cu m	1mg/cu m (fume)
Chloride	7646-85-7	1-4		(fume)	
Water	7732-18-5	0-1	No	None Estab.	None Estab.

This product contains a chemical subject to SECTION 313 of SARA Title III. IARC classifies lead and some lead compounds as Group 2B carcinogens (possibly carcinogenic to humans). This classification based primarily on carcinogenicity of certain soluble lead salts in lab animals. Neither lead nor its insoluble salts appear to be carcinogenic to humans or lab animals.

**WARNING:** This product contains a chemical known to the State of California to cause cancer, or birth defects or other reproductive harm.

### Section 3: Physical Data

Melting Point: Depends on alloy composition  
Boiling Point: N/A  
Vapor Pressure: N/A  
Vapor Density (air is 1): N/A  
Solubility in Water: Flux is water soluble  
Appearance & Color: Silver gray wire  
Specific Gravity: Depends on alloy and flux  
Odor: N/A  
% Volatile: N/A  
pH: N/A  
Evaporation Rate (nBuAc=1): N/A

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#### Section 4: Fire & Explosion Hazard Data

Flash Point/Method Used	N/A
Flammable Limits	N/A
Extinguishing Media	N/A
Fire-Fighting equipment	Wear self-contained breathing equipment if product is involved in a fire.
Special precautions	When heated to high temperatures, lead emits toxic fumes.

#### Section 5: Reactivity Data

Stability:	Stable
Conditions to avoid:	None
Hazardous Polymerization:	None
Conditions to avoid:	None
Incompatibility:	Oxidizers, strong acids
Hazardous Decomposition Products:	The fumes emitted in a soldering operation may contain zinc chloride.

#### Section 6: Spill, Leak and Disposal Procedures

Action to take for Spills/Leaks:	If molten, allow to cool and solidify then scrape up.
Disposal Method:	Return for reprocessing of metal.

#### Section 7: Health Hazard Data

Eye:	Flux fumes may be severe irritant.
Skin Contact:	Molten solder will cause burns. Exposure to flux will cause burns and ulceration.
Skin Absorption:	Not known to be absorbed through skin.
Ingestion:	Unlikely to occur. Lead is toxic and can cause internal injury and affect kidneys and liver.
Inhalation:	Flux fumes may irritate mucosal surfaces. Excessive exposure could lead to internal ulceration or burns. Overexposure to lead is unlikely as significant fume is not produced below 700°F. Prolonged overexposure to tin, silver, antimony, indium and bismuth is not expected.
General:	Inorganic tin compounds are irritants of the eyes and skin. No systemic effects have been reported from industrial exposure.

#### Section 8: First Aid Procedures

Eyes:	Remove from exposure, flush eyes with water 10 minutes. Get medical attention.
Skin:	For burns, cool with cold water and get medical attention.
Ingestion:	Get medical attention immediately.
Inhalation:	Remove to fresh air. If breathing is difficult, administer oxygen and get medical attention.

#### Section 9: Special Handling Information

Ventilation:	Required to prevent operators breathing fumes during soldering.
Respiratory Protection:	Required if TLV's are not being maintained. Use fume masks.
Eye Protection:	Wear face shield or goggles during soldering.
Skin Protection:	Not usually necessary.

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#### Section 10: Special Precautions & Additional Information

Storage: No special requirements.  
Hygiene: No food, drink or tobacco should be allowed where core solder is used. Wash hands thoroughly after handling core solder and before eating, drinking or smoking or applying cosmetics.  
Labelling: Lead warning labels (if applicable). Keep out of reach of children. For industrial use Only. DO NOT TAKE INTERNALLY.

#### Section 11: Hazard Rating

Health – 2  
Flammability – 0  
Reactivity – 0  
Special Hazard –

The information is given to good faith, but no warranty, express or implied, is made.