

MATERIAL SAFETY DATA SHEET

Tin / Lead Solder
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Section 01 Identification

Info Furnished By: Amerway Inc.
3701 Beale Avenue
Altoona, PA 16601
Date Effective: 1/1/2004
Emergency Phone: 814-944-0200
Product or Trade Name: Solder
Person to Contact: Terry Buck

Section 02 Constituents

Chem	CAS	%WT	Carcinogen	TLV/TWA
Tin	7440-31-5	0-100	NO	2mg/cu m ACGIH 2mg/cu m (inorganic) OSHA 0.01mg/cu m (organic) OSHA
Lead	7439-92-1	0-100	NO	0.5mg/cu m ACGIH 0.05mg/cu m OSHA (PEL)
Antimony	7440-36-0	0-5	NO	0.5mg/cu m ACGIH/OSHA
Silver	7440-22-4	0-5	NO	0.1mg/CU m ACGIH 0.01mg/cu m OSHA

This product contains a chemical subject to SECTION 313 of SARA Title III.

Section 03 Physical Data

Melting Point 360-620 Degrees depending on composition
Boiling Point N/A
Vapor Pressure Not volatile
Vapor Density (air is 1) Not volatile
Solubility in Water NIL
Appearance and Color Silver or gray colored metal
Specific Gravity 7-11 approx, depending on composition
Odor None
% Volatile NIL
ph N/A
Evaporation Rate (nBuAc=1) N/A

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Section 04 Fire and Explosion Hazard Data

Flash Point/Method Used	Not Flammable
Flammable Limits	N/A
Extinguishing Media	N/A
Fire-Fighting Equipment	If metal is present where there is a fire, wear self-contained breathing apparatus in case of poisonous lead fumes.
Special Precautions	None

Section 05 Reactivity Data

Stability:	Stable
Conditions to avoid	N/A
Hazardous Polymerization	Will not occur
Conditions to avoid	N/A
Incompatibility	Strong acids, oxidizers, reducing agents, halogens.
Hazardous Decomposition Products	Lead fumes at high temperatures (above 800 deg F)

Section 06 Spill, Lead and Disposal Procedures

Action to take for spills/leaks:	Allow to solidify and collect in sealed drums for disposal.
Disposal Method:	Return to supplier for reprocessing

Section 07 Health Hazard Data

Eye:	Dust or fume will be irritant.
Skin Contact:	Not a route of entry into the body.
Skin Absorption:	Not a route of entry into the body.
Ingestion:	Ingestion of dust or fume must be avoided. Lead is toxic and cumulative, affecting the kidneys, reproductive system and nervous system. Symptoms of chronic overexposure include anemia, insomnia, weakness, irritability, constipation and stomach pains. Antimony is toxic and dust or fume can cause nasal septal ulceration and stomach lining irritation. Tin is not regarded as toxic, but excessive exposure can cause fever, nausea, stomach cramps or diarrhea. Alloyed silver is unlikely to be hazardous. This product, when used for welding and similar applications, Produces chemicals known to cause cancer and birth defects (or other reproductive harm.) (California Health & Safety Code 25249.5 et seq).
Inhalation:	Inhalation of dust and fumes must be avoided. Irritation of nose and bronchial tracts may occur as well as effects due to absorption of lead, etc. in blood stream.
Systemic & Other Effects:	UNK.

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Section 08 First Aid Procedures

Eyes: Flush with water for 15 minutes.
Skin: Wash thoroughly with soap and water. Remove contaminated clothes.
Ingestion: Induce vomiting if person is conscious. Get medical attention.
Inhalation: Remove to fresh air. Get medical attention.
Note of Physician: N/A

Section 09 Special Handling Information

Ventilation: If fume or dust is being generated, mechanical ventilation must be provided to maintain exposure levels below TLV's
Respiratory Protection: Only required if TLV's are exceeded. Use a NIOSH/MSHA approved respirator for toxic dust and/or fume. Note: See 29CFR1910.1025 Subpart (f) of OSHA's Lead Standard.
Eye Protection: Wear safety glasses during soldering operations
Skin Protection: Not normally needed.
Other: N/A

Section 10 Special Precautions and Additional Information

Storage: Store in dry conditions.
No expiration date
Information: Lead use is regulated under OSHA 29CFR 1910.1025. No food or drink should be allowed in areas where these products are handled. Personnel must wash thoroughly after handling the metal before drinking, eating or smoking.

Section 11 Transportation

Proper Shipping Name: Not required
UN Number: N/A
NA Number: N/A
Dot Exemption No.: N/A
Hazard Classes: N/A

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