

** This information is given in good faith, but no warranty, expressed or implied is made.

MATERIAL SAFETY DATA SHEET

Pure Tin
ANODES, INGOT, BAR,
WIRE
ASTM B339-95

SECTION 1: IDENTIFICATION

Furnished by: Grant Manufacturing & Alloying, Inc
200-C Furnace Street
Birdsboro, Pa 19508

Effective Date: 01/01/01

Emergency Phone Number: 610-404-1380

Person to Contact: David Charest

SECTION 2: CONSTITUENTS

CHEMICAL	CAS#	%WT	CARCINOGEN	TLV
TIN	7440-31-5	100.0	NO	2mg/cu m ACGIH

SECTION 3: PHYSICAL DATA

Melting Point 360-620 degrees

Boiling Point n/ap

Vapor Pressure not volatile

Vapor Density not volatile

Solubility in Water nil

Apperance/Color silver to gray

Specific Gravity, 68-77 F 7-11 (approx), depending on alloy

Odor none

% Volatile nil

pH n/ap

Evaporation Rate n/ap

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point not flammable

Flammable Limits	n/ap
Extinguishing Methods	n/ap
Fire Fighting Equipment	If metal is present where there is fire, wear self contained breathing device . in case lead fumes

**SECTION 5:
REACTIVITY
DATA**

Stability	stable
Conditions to Avoid	n/ap
Hazardous Polymerization	will not occur
Incompatibility	strong acids, reducing agents, halogens and oxidizers
Hazardous Decomposition	

**SECTION 6: SPILL, LEAK AND
DISPOSAL PROCEDURES**

Actions to take for spills	allow to solidify, collect and place in sealed drum
Disposal Method	return to supplier

**SECTION 7: HEALTH
HAZARD INFORMATION**

Eye	dust or fumes will be an irritant
Skin Contact	not a route of entry to the body
Skin Absorption	not a route of entry to the body
Ingestion	

Ingestion of lead dust or fumes must be avoided. Lead is toxic and cumulative, affecting the kidneys and nervous system. Symptoms will include anemia, insomnia, weakness, irritability, constipation and stomach pains. Tin is not regarded as toxic, but excessive exposure can cause fever, nausea, diarrhea and stomach cramps.

Section 8: First Aid Procedures

Eyes:	Flush thoroughly with water and call a physician.
Skin:	Wash thoroughly with soap and water.

Ingestion: Induce vomiting if person is conscious. Call a physician.
Inhalation: Remove to fresh air. Call a physician.
Note to Physician: Check for effects of antimony

Section 9: Special Handling Information

Ventilation: Required to maintain TLV's
Respiratory Protection: Fume Mask required.
Eye Protection: Wear protective goggles.
Skin Protection: Use protective gloves when handling material.
Other: N/A

Section 10: Special Precautions & Additional Information

Storage: Store metal in clean dry area, away from heat and chemicals that might react with the material.

Section 11: Hazard Rating

Based on NFPA and NPCA Systems

Health-1

Flammability-0

Reactivity-0

Special Hazard-W

END: