



## ALCHEMY CASTINGS INC.

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# Material Safety Data Sheet

SECTION I: Product and Company Identification			
Common Name:	TIN	<b>In Case Of Emergency</b>	
Trade Name:	TIN	Canutec (CAN):	(613) 996-6666
Chemical Family:	METAL	Infotrac (USA):	(800) 535-5053
Material Use:	Soldering, Plating	International:	(352) 323-3500
Supplier Name:	Alchemy Castings 563 Kenilworth Ave. N. Hamilton, Ontario Canada L8H 4T8	Date Prepared:	February 2006

SECTION II: Composition and Information on Ingredients				
Name	CAS #	% by Weight	Exposure Limit	LD50 oral, rat
Tin (Sn)	7440-31-5	99.90	2.0 mg/m <sup>3</sup>	72 mg/kg (mouse)

SECTION III: Physical Information			
Boiling Point (°C)	2507	Specific Gravity	7.3
Vapour Pressure (mm Hg)	1492	% Volatile (By Volume)	Not Pertinent
Vapour Density (Air=1)	Unknown	Evaporation Rate (Ether=1)	Not Pertinent
Solubility In Water	Nil	pH	Not Pertinent
Appearance	Gold to Silver Tinge	Melting Point (°C)	231
Odour	None	Form	Bar, Ingot

SECTION IV: Transport Information			
Shipping Name	Not Regulated	Class/Division	Not Pertinent
UN Number	Not Pertinent	Packing Group	Not Pertinent

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<b>SECTION V: Fire and Explosion Hazards</b>	
<b>Flash Point (°C) and Method</b>	Dust may generate a fire
<b>Flammable Limits in Air (Vol %)</b>	<b>Upper:</b> Not Pertinent <b>Lower:</b> Not Pertinent
<b>Means of Extinction</b>	Class D – Dry Chemical or Sand

<b>SECTION VI: Health Hazard and First Aid Data</b>					
<b>Ingestion</b>	<b>Effects:</b>	Metallic taste, abdominal cramps, frequent headaches			
	<b>First Aid:</b>	If particles ingested, give 1-2 glasses of water or milk. Do induce vomiting. Seek medical assistance.			
<b>Eye Contact</b>	<b>Effects:</b>	Irritation of eyes.			
	<b>First Aid:</b>	Flush with large amounts of water.			
<b>Skin Contact</b>	<b>Effects:</b>	Not considered a risk			
	<b>First Aid:</b>	If dust or mist gets on skin, wash skin with soap and water. Remove clothing and launder.			
<b>Skin Absorption</b>	Not Pertinent				
<b>Inhalation</b>	Tin oxide dust/fume leads to pneumoconiosis without symptoms of interference to pulmonary tract.				
<b>Effects of Acute Exposure</b>	NP				
<b>Effects of Chronic Exposure</b>	NP				
<b>Carcinogenicity</b>	IARC (No)				
<b>Mutagenicity</b>	N/A	<b>Teratogenicity</b>	N/A	<b>Reproductive Effects</b>	N/A

<b>SECTION VII: Reactivity Data</b>					
<b>Stability</b>	Stable - Yes	<b>Conditions to Avoid</b>		Not Pertinent	
<b>Incompatible Materials</b>	<b>Water</b>	No	<b>Acid</b>	No	<b>Oxidizers</b> No
	<b>Corrosive</b>	No	<b>Alkali</b>	No	<b>Reducers</b> No
	<b>Other</b>	Yes			
<b>Hazardous Decomposition Products</b>	Not Pertinent				
<b>Hazardous Polymerization</b>	<b>May Occur</b>	No	<b>Will Not Occur</b>	X	
	<b>Conditions to Avoid</b>	Not Pertinent			

<b>SECTION VIII: Preventative Measures</b>	
<b>Steps to be taken in case Material is Released or Spilled:</b> If spill of dust, use cleanup methods which avoid dust generation. Use water and wet sweep or vacuum.	
<b>Waste Disposal Method:</b> Dispose of in accordance with appropriate federal and local regulations.	
<b>Respiratory Protection:</b> When engineering controls are not feasible to control overexposure, use appropriate <b>NIOSH</b> approved respirators.	
<b>Engineering Controls</b>	<b>Local Exhaust</b> Essential to keep worker exposure within allowable limits during welding or grinding.
	<b>Mechanical (General)</b> Not Applicable
	<b>Special</b> Not Applicable   <b>Other</b> Not Applicable
	Not Applicable
<b>Protective Gloves:</b> As needed to protect against physical hazards.	<b>Eye Protection:</b> Safety glasses, goggles or face shield if molten.
<b>Other Protective Equipment:</b> Heat resistant leggings and gloves if pouring molten metal.	

<b>SECTION IX: Special Precautions</b>	
<b>Precautions to be taken in Handling and Storing:</b> The scrap metal itself presents no health hazard unless it is welded, burned, ground or cut. Possible fumes may be generated. Should have complete evaluation done. Wash hands and arms after handling.	
<b>Special Precautions and Waste Disposal Methods:</b> Return to manufacturer, scrap dealer, or dispose of in accordance to local & federal regulations.	

<b>SECTION X: Notice to Reader</b>	
The information contained in this MSDS was obtained from sources which are believed to be reliable. It is the user's responsibility to determine the suitability of this information for adoption of necessary safety precautions. The manufacturer does not assume responsibility and expressly disclaims liability for any loss, damage, or expense arising out of or in any way connected with, the handling, storage, use or disposal of the product identified in this MSDS.	

Prepared by: Health, Safety and Environment Department of Alchemy Castings