

LTS Research Laboratories, Inc. Safety Data Sheet Tin

1. Product and Company Identification			
Trade Name:	Tin		
Chemical Formula:	Sn		
Recommended Use:	Scientific res	search and development	
Manufacturer/Supplier:	LTS Researc	ch Laboratories, Inc.	
Street:	2001 Oaks P	Pkwy	
City:	Belmont		
State:	North Caroli	ina	
Zip Code:	28012		
Country:	USA		
Tel #:	855-587-243	86 / 855-lts-chem	
24-Hour Emergency Contact:	800-424-930	00 (US & Canada)	
		3887 (International)	
	2. Hazards	Identification	
Signal Word:	Wa	rning	
Hazard Statements:	H228: Flami	nesearch mable solid	
Precautionary Statements:	P261 Avoid	breathing dust/fume/vapor	
	P280: Wear protective gloves/protective clothing/eye protection/face		
	protection		
	P240: Ground/bond container and receiving equipment		
	P241: Use explosion-proof electrical/ventilating/lighting/equipment P370+P378: In case of fire: Use CO ₂ , Powder for extinction		
HMIS Health Ratings (0-4):	Powder	Bulk	
Health:	1	0	
Flammability:	2	0	
Physical:	1	0	
	3. Con	position	
Chemical Family:	Metal		
Additional Names:	None		
Tin (Sn):			
	0 100 .0/		
Percentage:	0-100 wt%		
	0-100 wt% 7440-31-5 231-141-8		

	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion:	Seek medical attention.
Skin:	Wash affected area with mild soap and water. Remove any
Eyes:	contaminated clothing. Flush eyes with water, blinking often for several minutes. Remove
	contact lenses if present and easy to do. Continue rinsing
	5. Firefighting Measures
	Non-flammable, except as powder
Extinguishing Media:	Do not use water for metal fires – use CO ₂ , sand, extinguishing powder
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective
	clothing to prevent contact with skin and eyes. See section 10 for
	decomposition products.
	6. Accidental Release Measures
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in
	special protection information. Isolate spill area and provide
	ventilation. Vacuum up spill using a high efficiency particulate
	absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.
	isolate fution to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store apart from
Work/Hygienic Maintenance:	materials and conditions listed in section 10.
	Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with
	compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below
	threshold limit.
8.	Exposure Controls and Personal Protection
Permissible Exposure Limits:	2 mg/m ³ as Sn, long-term value
Threshold Limit Value:	2 mg/m ³ as Sn, long-term value
Special Equipment:	None
Respiratory Protection:	Dust Respirator
Protective Gloves:	Rubber gloves
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long
	sleeves/pants.

9. Physical and Chemical Characteristics		
Color	Grey	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	Odorless	
Water Solubility:	Insoluble	
Boiling Point:	2270 °C	
Melting Point:	231.9 °C	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	7.31 g/cc	
Molecular weight:	118.7 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Acids, Halogens, Inter-halogens, Oxidizing agents	
Incompatible Conditions:	Protect against electrostatic charges	
Hazardous Decomposition Products:	Metal oxide fume	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	May cause irritation	
Skin:	May cause irritation	
Ingestion:	May cause irritation	
Inhalation:	May cause irritation	
Chronic:	N/A	
Signs & Symptoms:	N/AResearch	
Aggravated Medical Conditions:	N/A N/A	
Median Lethal Dose:	N/A	
Carcinogen:	N/A	
	12. Ecological Information	
Aquatic Toxicity:	Low	
Persistent Bioaccumulation Toxicity:	No	
Very Persistent, Very Bioaccumulative:	No	
Notes:	N/A	
	13. Disposal Considerations	

Dispose of in accordance with local, state, national, and international regulations.

	14. Transportation Data		
Hazardous:	Hazardous as powder only.		
Hazard Class:	4.1 Flammable solids, self-reactive substances and solid desensitized explosives		
Packing Group:	III		
UN Number:	UN3089		
Proper Shipping Name:	Metal powder, flammable, n.o.s. (Tin)		
	15. Regulatory Information		
Sec 302 Extremely Hazardous:	No		
	N/A		
Sec 304 Reportable Quantities:			

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

Document Last Revised:

08/25/2023