SAFETY DATA SHEET

Boreal Science

399 Vansickle Road

St. Catherines, Ontario

GENERAL STORAGE CODE GREEN

Page E1 of E2

Chemical Product and Company Identification Section 1

5100 West Henrietta Rd

PO Box 92912

CHEMTREC 24 Hour Emergency USA Phone Number (800) 424-9300 For laboratory and industrial use only.

SCIE	Rochester, NY 14692-9012 L2S 3T4 Canada Tel: (800) 962-2660 Tel: (800) 387-9393	Not for drug, food or household use.
Product	TIN METAL, GRANULAR	
Synonyms	Tin	
Section 2	Hazards Identification	
to the Globa Chemicals.		Supplementary information: Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.
Pictograms	1: Not classified : Not classified ns: None known	
GHS Label	fication: Not classified information: Hazard statement: Not classified ary statement: Not classified	

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3	Composition / Information on	Ingredients			
Chemical Name		CAS #	%	EINECS	
Tin metal		7440-31-5	100%	231-141-8	
Section 4	First Aid Measures				

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 **Fire Fighting Measures**

Suitable Extinguishing Media: Use triclass, dry chemical fire extinguisher or sand. Do not use water to fight fires involving this material.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Non-flammable, however, air-borne dust may ignite. Molten metals produce fume, vapor and/or dust that may be toxic or respiratory irritants. In contact with acids, emits hydrogen gas. This gas if flammable and can cause explosion.

Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Recover for reuse if not contaminated. Remove all sources of ignition. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources.

Section 8	Exposure Controls / Personal Pro	tection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Linits.	Tin metal	TWA: 2 mg/m ³	TWA: 2 mg/m ³	TWA: 2 mg/m ³

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

-	Physical & Chemica	I Properties					
Odor: No odor Odor threshold: pH: Data not avai	able j point: 2270°C (4118°F) 1.9°C (449°F)	Flammability (s Explosion limit Vapor pressure Vapor density Relative densit	te (= 1): Not applic solid/gas): Data not s: Lower / Upper: N (mm Hg): 1 mm @ (Air = 1): 4.11 y (Specific gravity): Insoluble in water	available lot applicable 1492°C	Auto-ignitie Decompos Viscosity: Molecular f	befficient: Data on temperature ition temperatu Data not availab formula: Sn weight: 118.69	: Not applicable re : Data not available
Section 10	Stability & Reactivity	y					
Chemical stabilit Conditions to ave	y: Stable bid: Avoid contact with acid		us polymerization:	Will not occur.			
Incompatible ma	terials: Strong oxidizers, ch	nlorine, cupric nitrate, po	tassium, sodium perc	xide, sulfur, halogen	s, sulfuric chloi	osulfuric and py	rosulfuric acid.
Hazardous decor	nposition products: Oxide	es of tin may be present.	Reacts with acids, c	ausing evolution of f	lammable hydr	ogen gas.	
Section 11	Toxicological Inform	nation					
Germ cell mutag Carcinogenity: I NTP: No compone IARC: No compor OSHA: No compor STOT-single exp STOT-repeated e Aspiration hazar Potential health Inhalation: Tin du Ingestion: Consid	ent of this product present at ent of this product present a nent of this product present ticity: Data not available poure: Data not available xposure: Data not available d: Data not available effects: st is irritating to the respirate ered to be of low toxicity due	t levels greater than or e at levels greater than or at levels greater than or e e ory tract.	equal to 0.1% is ident equal to 0.1% is ider	ified as probable, po	ssible or confir	med human card	
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NT m, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.