



Safety Data Sheet

TIN

SECTION 1: PRODUCT DESCRIPTION

PRODUCT IDENTIFIER

Product form: Solid
Product Name: Tin
Formula: Sn
Synonyms: N/A

SUPPLIER

NATHAN TROTTER & COMPANY
241 W. STEWART HUSTON DRIVE
COATESVILLE, PA 19320
PH. 610-524-1440
FX. 610-524-2496

INTENDED USE OF PRODUCT

Use: Industrial; professional use only

EMERGENCY TELEPHONE NUMBER

CHEMTREC 24 HR Emergency number: 1-800-424-9300
INTERNATIONAL CHEMTREC call: 1-703-527-3887

SECTION 2: HAZARD IDENTIFICATION

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

Not a dangerous substance according to GHS classification criteria.

No known OSHA hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE

Name	Product Identifier	%	Classification (GHS-US)
Tin, Metal	7440-31-5	100	N/A

SECTION 4: FIRST AID MEASURES

General First-aid Measures: Never give an unconscious person anything by mouth. If you feel unwell, seek medical attention. (show label when possible)

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: In case of accident by inhalation: remove casualty to fresh air and keep at rest.

EYES: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

SKIN CONTACT: After contact with skin, wash immediately with plenty of water. **Molten Metal:** Flush contact area to solidify and cool but do not attempt to remove encrusted material or clothing. Cover burns and seek medical attention immediately.

INGESTION: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

SECTION 5: FIRE FIGHTING PROCEDURES

EXTINGUISHING MEDIA: Use Media suitable to extinguish surrounding fire.

FIRE FIGHTING METHODS AND PROTECTION: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

FIRE AND/OR EXPLOSION HAZARDS: Combustible in the form of dust when exposed to heat or by spontaneous chemical reaction with Br₂, BrF₃, S, Cl₂, ClF₃, Cu(NO₃), K₂O₂.

HAZARDOUS COMBUSTION PRODUCTS: Tin compounds.

SECTION 6: SPILL OR LEAK MEASURES/PROCEDURES

STEPS TO TAKE IN CASE MATERIAL IS RELEASED OR SPILLED:

No health effects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

SECTION 7: HANDLING AND STORAGE

HANDLING: Avoid creating and inhaling dust.

STORAGE: Store locked up. Keep container tightly closed in a cool, well-ventilated place.

STORAGE CODE: Green - general chemical storage.

SECTION 8: PROTECTION INFORMATION

CHEMICAL NAME: TIN, METAL

<u>ACGIH</u>		<u>OSHA PEL</u>	
<u>TWA</u>	<u>STEL</u>	<u>TWA</u>	<u>STEL</u>
2 MG/M3	N/A	2 Mg/m ³	N/A

CONTROL PARAMETERS/ ENGINEERING MEASURES: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

PERSONAL PROTECTIVE EQUIPMENT (PPE): Heat resistant gloves, eye wash, safety shower.

RESPIRATORY PROTECTION No respiratory protection required under normal conditions of use. Respiratory protection may be required in addition to ventilation depending upon conditions of use.

EYE PROTECTION: Wear Safety glasses when handling this product. Have an eye wash station available.

SKIN PROTECTION: Avoid skin contact by wearing heat resistant gloves and other protective equipment depending upon conditions of use. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

GLOVES: Heat resistant gloves.

SECTION 9: PHYSICAL DATA

FORMULA: Sn

FREEZING POINT: No data available

MOLECULAR WEIGHT: 118.69

FLAMMABILITY: No data Available

APPEARANCE: Grey Metallic Solid

FLASH POINT: No data available

ODOR: None

AUTO IGNITION TEMPERATURE: No data available

PHYSICAL STATE: Solid

DECOMPOSITION TEMPERATURE: No data available

pH: No data available

VAPOR PRESSURE : 1.3332 hPa at 1492°C

MELTING POINT: 450° F (232°C)

SPECIFIC GRAVITY: 7.28 (Water = 1)

BOILING POINT: 4717° F (2603°C)

RELATIVE VAPOR DENSITY AT 20°C: No data available

SECTION 10: REACTIVITY DATA

REACTIVITY: Not generally reactive under normal conditions.

CHEMICAL STABILITY: Stable under normal conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.

CONDITIONS TO AVOID: None known.

INCOMPATIBLE MATERIALS: Chlorine, Halogens, Bromine, Trifluoride, strong acids, strong oxidizing agents, Sulfur, Alkali, and Alkaline metals.

HAZARDOUS DECOMPOSITION PRODUCTS: Tin Compounds.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11: TOXICITY DATA

ROUTES OF ENTRY: Inhalation and ingestion.

SYMPTOMS (ACUTE): Reproductive systems

DELAYED EFFECTS: No data available

ACUTE TOXICITY:

CHEMICAL NAME:	CAS NUMBER	ORAL LD50	DERMAL LD50	INHALATION LC50
Tin, Metal	7440-31-5	N/A	N/A	N/A

CARCINOGENICITY:

CHEMICAL NAME:	CAS NUMBER	IARC	NTP	OSHA
Tin, Metal	7440-31-5	N/A	N/A	N/A

CHRONIC EFFECTS:

MUTAGENICITY: No evidence of a mutagenic effect.

TERATOGENICITY: No evidence of a teratogenic effect (Birth defect)

SENSITIZATION: No evidence of a sensitization effect.

REPRODUCTIVE: No evidence of negative reproductive effects.

TARGET ORGAN EFFECTS:

ACUTE: None

CHRONIC: None

SECTION 12: ECOLOGICAL DATA

OVERVIEW: This material is not expected to be harmful to the ecology.

MOBILITY: N/A

PERSISTANCE: N/A

BIOACCUMULATION: N/A

DEGRADABILITY: N/A

OTHER ADVERSE EFFECTS: N/A

CHEMICAL NAME:

TIN.METAL

CAS NUMBER

7440-31-5

ECO TOXICITY

N/A

SECTION 13: DISPOSAL INFORMATION

DISPOSAL METHODS: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance

WASTE DISPOSAL CODE(S): Not determined

SECTION 14: TRANSPORT INFORMATION

GROUND– DOT PROPER SHIPPING NAME:

Not regulated for transport by US DOT

AIR– IATA PROPER SHIPPING NAME:

Not regulated for air transport by IATA

SECTION 15: REGULATORY INFORMATION

TSCA STATUS:

All components in this product are on the TSCA Inventory.

CHEMICAL NAME:	CAS NUMBER	§ 313 NAME	§ 313 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Tin, Metal	7440-31-5	Tin	No	No	No	No

SECTION 16: ADDITIONAL INFORMATION

REVISED: MAY 2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Nathan Trotter & Co. Inc. makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

GLOSSARY:

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Service Number

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DOT: U.S. Department of Transportation

IARC: International Agency for Research on Cancer

N/A: Not Available

IDLH: Immediately dangerous to life and health

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

PPM: Parts per million

RCRA: Resource Conservation and Recovery Act

SARA: Superfund Amendments and Reauthorization Act

TLV: Threshold Limit Value

TSCA: Toxic Substances Control Act

END OF SDS