

SECTION 1: PRODUCT DESCRIPTION**PRODUCT IDENTIFIER**

Product form: Solid
Product Name: TIN/LEAD METAL
Formula: SnPb
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 SUBSTANCE OR MIXTURE

Signal Word:
DANGER

**HAZARD STATEMENTS:**

H302: Harmful if swallowed.
H350: May cause cancer.
H360: Suspected of damaging fertility or the unborn child.
H372: May cause damage to organs through prolonged or repeated exposure.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENTS:

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P280: Wear Protective gloves/protective clothing/eye protection/face protection.
P301 + P312: IF SWALLOWED: Call a POISON CONTROL center or doctor if you feel unwell
P308+P313: If exposed or concerned: Get medical advice/attention.
P405: Store locked up.
P501: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
P260: Do not breathe dust/fume/gas/mist/vapors/spray.
P264: Wash thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P314: Get medical advice/attention if you feel unwell.
P273: Avoid release to the environment.
P391: Collect spillage.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE:

Name	Product Identifier	%	Classification (GHS-US)
Tin, Metal	7440-31-5	4-96	N/A
Lead, Metal	7439-92-1	4-96	Carc, 1B, H302, H350, H360 1, H372 1, H400 1, H410 1

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)

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.

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)₂, K₂O₂.

HAZARDOUS COMBUSTION PRODUCTS: Metal Oxides.

SECTION 6: SPILL OR LEAK MEASURES/PROCEDURES

STEPS TO TAKE IN CASE MATERIAL IS RELEASED OR SPILLED:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid creating and inhaling dust. 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, Collect spillage.

SECTION 7: HANDLING AND STORAGE

HANDLING: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Use personal protective equipment as required. Keep container tightly closed in a cool, well-ventilated place. Keep container dry. Do not breathe gas/fumes/vapor/spray.

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/LEAD, METAL

<u>TWA</u> 0.05 MG/M3	<u>ACGIH</u>	<u>STEL</u> N/A	<u>TWA</u> 50 µg/m3	<u>OSHA PEL</u>	<u>STEL</u> N/A
<u>TWA</u> 2 MG/M3	<u>ACGIH</u>	<u>STEL</u> N/A	<u>TWA</u> 2 Mg/m3	<u>OSHA PEL</u>	<u>STEL</u> 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, safety boots, 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 chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. 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

MOLECULAR WEIGHT: 118.69

APPEARANCE: Grey Metallic Solid

ODOR: None

PHYSICAL STATE: Solid

pH: No data available

MELTING POINT: 450° F (232°C)

BOILING POINT: 4717° F (2603°C)

FORMULA: Pb

MOLECULAR WEIGHT: 207.19

APPEARANCE: Bluish– gray soft metal

ODOR: No data available

PHYSICAL STATE: Solid

pH: No data available

MELTING POINT: 621°F (327°C)

BOILING POINT: 3164°F (1740°C)

FREEZING POINT: No data available

FLAMMABILITY: No data Available

FLASH POINT: No data available

AUTO IGNITION TEMPERATURE: No data available

DECOMPOSITION TEMPERATURE: No data available

VAPOR PRESSURE : 1.3332 hPa at 1492°C

SPECIFIC GRAVITY: 7.28 (Water = 1)

RELATIVE VAPOR DENSITY AT 20°C: No data available

FREEZING POINT: No data available

FLAMMABILITY: No data Available

FLASH POINT: No data available

AUTO IGNITION TEMPERATURE: No data available

DECOMPOSITION TEMPERATURE: No data available

VAPOR PRESSURE: 1mm Hg at 1783°F (973°C)

SPECIFIC GRAVITY: 11.3 (Water = 1)

RELATIVE VAPOR DENSITY AT 20°C

SECTION 10: REACTIVITY DATA

REACTIVITY: Molten form may react violently with water.

CHEMICAL STABILITY: Stable under recommended handling and storage conditions. (see section 7)

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.

CONDITIONS TO AVOID: Incompatible materials. In molten form: Moisture, Chlorine, Halogens, Bromine, Trifluoride, strong acids, strong oxidizing agents, Sulfur, Alkali, and Alkaline metals.

INCOMPATIBLE MATERIALS: Strong Acids, strong bases, strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition generates: Lead fumes.

SECTION 11: TOXICITY DATA

ROUTES OF ENTRY: Inhalation and ingestion.

SYMPTOMS (ACUTE): Reproductive systems

DELAYED EFFECTS: No data available

ACUTE TOXICITY:

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

CARCINOGENICITY:

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

ACUTE TOXICITY:

<u>CHEMICAL NAME:</u>	<u>CAS NUMBER</u>	<u>ORAL LD50</u>	<u>DERMAL LD50</u>	<u>INHALATION LC50</u>
Lead, Metal	7439-92-1	N/A	N/A	N/A

CARCINOGENICITY:

<u>CHEMICAL NAME:</u>	<u>CAS NUMBER</u>	<u>IARC</u>	<u>NTP</u>	<u>OSHA</u>
Lead, Metal	7439-92-1	2A	Human Carcinogenic	N/A

CHRONIC EFFECTS:

MUTAGENICITY: No evidence of a mutagenic effect.
TERATOGENICITY: Evidence of a teratogenic effect (Birth defect)
SENSITIZATION: No evidence of a sensitization effect.
REPRODUCTIVE: Evidence of negative reproductive effects.

TARGET ORGAN EFFECTS:

ACUTE: See section 2
CHRONIC: Mutation data cited, Teratogen data cited, Listed by NTP, IARC as causing Cancer.

SECTION 12: ECOLOGICAL DATA

OVERVIEW: Moderate ecological hazard. This product may be dangerous to plants and/or wildlife. Highly/very toxic to fish and other water organisms.

MOBILITY: N/A

PERSISTANCE: N/A

BIOACCUMULATION: N/A

DEGRADABILITY: N/A

OTHER ADVERSE EFFECTS: N/A

<u>CHEMICAL NAME:</u>	<u>CAS NUMBER</u>	<u>ECO TOXICITY</u>
TIN.METAL	7440-31-5	N/A

<u>CHEMICAL NAME:</u>	<u>CAS NUMBER</u>	<u>ECO TOXICITY</u>
LEAD,METAL	7439-92-1	96 HR LC50 ONCORHYNCHUS-MYKISS 1.32 MG/L 48 HR EC50 WATER FLES 600 µG/L

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:

UN number 3077 Class 9 packaging group: III Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Lead group entry Annex I) Reportable Quantity (RQ): 10lbs Marine pollutant: Poison Inhalation Hazard: No

AIR– IATA PROPER SHIPPING NAME:

UN number 3077 Class 9: Packing Group: III Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Lead group entry Annex I)

SECTION 15: REGULATORY INFORMATION

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
Lead, Metal	7439-92-1	Lead	No	10lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of solid metal released is >100)	No	No

TSCA STATUS: CALIFORNIA PROP 65:

All components in this product are on the TSCA Inventory.
WARNING: This product contains a chemical known to the state of California to cause cancer and birth defects or other reproductive harm.

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