

ANTIMONIAL LEAD

SECTION 1: PRODUCT DESCRIPTION

PRODUCT IDENTIFIER

Product form: Solid
Product Name: Antimonial Lead
Formula: Sb/Pb
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

GHS CLASSIFICATION: Acute toxicity, Oral (Category 4), Carcinogenicity Category 1, Acute toxicity, Inhalation (Category 4), Hazardous to the aquatic environment, Acute and Prolonged Category 1, Reproductive Toxicity Category 2, Specific Target Organ Toxicity - Repeated Exposure Category 2

HAZARD STATEMENTS:

H302+332: Harmful if swallowed or inhaled
H350: May cause cancer.
H361: Suspected of damaging fertility or the unborn child.
H373: May cause damage to organs through prolonged or repeated exposure.
H410: Very toxic to aquatic life with long lasting effects

**DANGER**

PRECAUTIONARY STATEMENTS:

P264: Wash hands thoroughly after handling
P260: Do not breathe dust/fumes/gas/mist/vapors/spray
P270: Do not eat, drink or smoke when using product
P271: Use only outdoors or in well ventilated area
P301 + P312: IF SWALLOWED: Call a POISON CONTROL center or doctor if you feel unwell
P330: Rinse mouth
P501: Dispose of in accordance with local and federal regulations. Always contact a permitted waste disposer to assure compliance.
P304+340: If inhaled, remove person to fresh air and keep comfortable for breathing
P312: Call a POISON CONTROL CENTER/DOCTOR if you feel unwell
P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P280: Wear protective clothing/gloves/eye and face protection
P308+P313: If exposed or concerned: Get medical advice/attention.
P314: Get medical advice/attention if you feel unwell.
P405: Store locked up
P501: Dispose of in accordance with local and federal regulations. Always contact a permitted waste disposer to assure compliance.
P273: Avoid release to the environment.
P391: Collect spillage.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE

Name	Product Identifier	%	Classification (GHS-US)
Antimony, Metal	7440-36-0	0-20	See section 2
Lead, Metal	7439-92-1	70-100	See section 2

SECTION 4: FIRST AID MEASURES

General First-aid Measures: Under normal handling and use, exposure to solid forms of this material present few health hazards. Subsequent operations such as grinding, melting or welding may produce hazardous dust or fumes which can be inhaled or come in contact with the skin or eyes.

INHALATION: Remove to fresh air, keep warm and quiet, give oxygen if breathing is difficult. Seek immediate medical attention. Treat pulmonary edema as a priority, even if no symptoms (i.e. wheezing, coughing, shortness of breath, etc.) are apparent. Symptoms of pulmonary edema can be delayed up to 48 hours after exposure. Quickly transport victim to an emergency care facility.

INGESTION: Rinse mouth with water. Do not induce vomiting. Seek immediate medical attention. Never induce vomiting or give anything by mouth to an unconscious person. Ingested cadmium may lead to spontaneous vomiting. If vomiting occurs naturally, have victim rinse mouth with water again.

SKIN: Remove contaminated clothing, wash affected area with soap and water. Seek medical attention. Wash contaminated clothing before reusing. **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 dry chemical, CO2 or appropriate foam, Water spray.

FIRE FIGHTING METHODS AND PROTECTION: Use dry chemical or cover with a dry sand or lime. Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

FIRE AND/OR EXPLOSION HAZARDS: Fire or excessive heat may produce hazardous decomposition products. Avoid dusting. May become explosive when dispersed in air.

HAZARDOUS COMBUSTION PRODUCTS: Antimony, 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. 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:

LEAD, METAL

<u>TWA</u>	<u>ACGIH</u>	<u>STEL</u>	<u>TWA</u>	<u>OSHA PEL</u>	<u>STEL</u>
0.05 MG/M3		N/A	50 µg/m3		N/A

ANTIMONY, METAL

<u>TWA</u>	<u>ACGIH</u>	<u>STEL</u>	<u>TWA</u>	<u>OSHA PEL</u>	<u>STEL</u>
0.05 MG/M3		N/A	50 µg/m3		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 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, smoking and when leaving work.

GLOVES: Heat resistant gloves.

SECTION 9: PHYSICAL DATA

FORMULA: Pb/Sb

FREEZING POINT: No data available

MOLECULAR WEIGHT: No data available

FLAMMABILITY: No data Available

APPEARANCE: Silvery-Gray Metal

FLASH POINT: No data available

ODOR: Odorless

AUTO IGNITION TEMPERATURE: No data available

PHYSICAL STATE: Solid

DECOMPOSITION TEMPERATURE: No data available

pH: No data available

VAPOR PRESSURE : No data available

MELTING POINT: 360-620°F

SPECIFIC GRAVITY: No data available

BOILING POINT: 2984°F

Insoluble in water

SECTION 10: REACTIVITY DATA

REACTIVITY: No data.

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

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.

CONDITIONS TO AVOID: None known. Avoid creating and inhaling dust. Keep away from oxidizing materials and strong acids. Store in a cool dry place. Isolate from incompatible material.

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

HAZARDOUS DECOMPOSITION PRODUCTS: Antimony

SECTION 11: TOXICITY DATA

ROUTES OF ENTRY: Inhalation, ingestion, eye or skin contact.

SYMPTOMS (ACUTE): Respiratory disorders, Cardiovascular system, Gastrointestinal.

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>
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	

ACUTE TOXICITY:

<u>CHEMICAL NAME:</u>	<u>CAS NUMBER</u>	<u>ORAL LD50</u>	<u>DERMAL LD50</u>	<u>INHALATION LC50</u>
Antimony, Metal	7440-36-0	Rat 100mg	N/A	N/A

CARCINOGENICITY:

<u>CHEMICAL NAME:</u>	<u>CAS NUMBER</u>	<u>IARC</u>	<u>NTP</u>	<u>OSHA</u>
Antimony, Metal	7440-36-0	N/A	N/A	

CHRONIC EFFECTS:

MUTAGENICITY: No evidence of a mutagenic effect.

TERATOGENICITY: Evidence of a teratogenic effect (Birth defect) (Lead)

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	CHEMICAL NAME: LEAD, METAL	CAS NUMBER 7439-92-1	ECO TOXICITY Not available
PERSISTENCE: N/A			
BIOACCUMULATION: N/A	CHEMICAL NAME: ANTIMONY, METAL	CAS NUMBER 7440-36-0	ECO TOXICITY 96 HR LC50 ONCORHYNCHUS
DEGRADABILITY: N/A			
OTHER ADVERSE EFFECTS: N/A	MYKISS 1.32 MG/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

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
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 µm):4.54kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal is >100µm)	No	No

CHEMICAL NAME:	CAS NUMBER	§ 313 NAME	§ 313 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Antimony, Metal	7440-36-0	Antimony	No	500lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of solid metal released is >100 µm): 2270kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal is >100µm)	No	No

SECTION 16: ADDITIONAL INFORMATION

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GLOSSARY:

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
IDLH: Immediately dangerous to life and health

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