

# SAFETY DATA SHEET

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## SECTION 1. IDENTIFICATION

**Product Name:** Phenyltin Trichloride

**Product Number:** All applicable American Elements product codes, e.g. PHSN-CL-01

**CAS #:** 1124-19-2

**Relevant identified uses of the substance:** Scientific research and development

**Supplier details:**

American Elements  
10884 Weyburn Ave.  
Los Angeles, CA 90024  
Tel: +1 310-208-0551  
Fax: +1 310-208-0351

**Emergency telephone number:**

+1 800-424-9300

## SECTION 2. HAZARDS IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: Eye Damage/Irritation [Category 1]

Corrosive to Metals [Category 1]

Skin Corrosion/Irritation [Category 1B]

Signal word: Danger!

Hazard Statement(s): Causes serious eye damage

Causes severe skin burns and eye damage

May be corrosive to metals

Pictogram(s) or Symbol(s):



**Precautionary Statement(s):**

[Prevention] Do not breathe dusts or mists. Use only outdoors or in a well-ventilated area. Wear protective gloves,

protective clothing, eye protection and face protection. Wear eye protection. Wear face protection (full length face shield). Keep only in original container.

[Response] If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all

contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison

center

or doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Absorb spillage to prevent material damage.

[Storage] Store locked up. Store in corrosive resistant container with a resistant inner liner.

[Disposal] Dispose of contents and container in accordance with US EPA guidelines for the classification and

determination of hazardous waste listed in 40 CFR 261.3. (See Section 13)

Hazards not otherwise classified: [HNOC] Lachrymator

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## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Substance

Phenyltin Trichloride

Percent: >98.0%(T)

CAS Number: 1124-19-2

Molecular Weight: 302.17

Chemical Formula: C<sub>6</sub>H<sub>5</sub>Cl<sub>3</sub>Sn

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## SECTION 4. FIRST AID MEASURES

Inhalation: Immediately call a poison center or doctor. Effects of exposure (inhalation) to substance may be delayed.

Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is

difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Skin contact: For severe burns, immediate medical attention is required. Immediately call a poison center or doctor.

Remove and wash contaminated clothing before re-use. In case of contact with substance, immediately

flush skin with running water for at least 20 minutes. Treat symptomatically and supportively. Ensure that

medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Eye contact: IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Eye contact

with vapors or substance may cause severe injury, burns, or death. Call emergency medical service. Move

victim to fresh air. Check for and remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of exposure to substance may be delayed. Ensure that medical

personnel are aware of the material(s) involved and take precautions to protect themselves.

Ingestion: Do not induce vomiting with out medical advice. Call a physician or Poison Control Center immediately. Do

not use mouth-to-mouth method if victim ingested the substance; give artificial respiration with the aid of a

pocket mask equipped with a one-way valve or other proper respiratory medical device. Loosen tight clothing such as a collar, tie, belt or waistband. If a person vomits place them in the recovery position so

that vomit will not reenter the mouth and throat. Rinse mouth. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved

and  
take precautions to protect themselves.  
Symptoms/effects:  
Acute: Pain. Redness.  
Delayed: No data available  
Immediate medical attention: WARNING: It might be hazardous to the person providing aid to give mouth-to-mouth respiration, because the inhaled material is corrosive. For severe burns, immediate medical attention is required. If breathing has stopped, perform artificial respiration. Use first aid treatment according to the nature of the injury. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

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## **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media: Dry chemical, CO<sub>2</sub> or water spray. Consult with local fire authorities before attempting large scale fire fighting operations.  
Specific hazards arising from the chemical  
Hazardous combustion products: These products include: Carbon oxides Halogenated compounds  
Other specific hazards: WARNING: Highly toxic HCl gas is produced during combustion.  
Special precautions for fire-fighters:  
Use water spray or fog; do not use straight streams. Dike fire-control water for later disposal; do not scatter the material. Containers may explode when heated. Move containers from fire area if you can do it without risk.  
Special protective equipment for fire-fighters:  
Wear positive pressure self-contained breathing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations ONLY; it may not be effective in spill situations. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.

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## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions: Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (Section 8).  
Warn unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation.  
Isolate the hazard area and deny entry to unnecessary and unprotected personnel.  
Personal protective equipment: Wear eye protection (splash goggles) and face protection (full length face shield). Lab coat. Vapor respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile).  
Emergency procedures: In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and exercise caution. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements or confined areas; dike if needed.

Methods and materials for containment and cleaning up:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if without risk. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material. Ventilate the area.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage.

Prevent entry into sewers, basements or confined areas; dike if needed.

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## SECTION 7. HANDLING AND STORAGE

Precautions for safe handling: Do NOT breathe gas, fumes, vapor, or spray. Manipulate under an adequate fume hood. Avoid contact with skin and eyes. May corrode metallic surfaces. Use process enclosures, local exhaust ventilation, or other

engineering controls to keep airborne levels below recommended exposure limits. Keep container dry. Handle and open container with care. Wear suitable protective clothing, gloves and eye/face protection.

When using do not eat, drink, or smoke. Keep away from sources of ignition.

Conditions for safe storage: Store in corrosive resistant container with a resistant inner liner. Keep containers tightly closed in a cool, well-ventilated place. Store locked up. Keep away from incompatibles. Containers which are opened must

be carefully resealed and kept upright to prevent leakage. Avoid prolonged storage periods. Store under

inert gas (e.g. Argon). Moisture sensitive.

Storage incompatibilities: Combustible substances, Store away from oxidizing agents

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits:

ACGIH TLV (TWA): 0.1 mg(Sn)/m<sup>3</sup> (skin)

ACGIH TLV (STEL): 0.2 mg(Sn)/m<sup>3</sup> (skin)

OSHA PEL (TWA): 0.1 mg(Sn)/m<sup>3</sup>

Appropriate engineering controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

Personal protective equipment

Respiratory protection: Vapor respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.

Hand protection: Nitrile gloves.

Eye protection: Wear eye protection (splash goggles) and face protection (full length face shield).

Skin and body protection: Wear protective clothing (lab coat and chemical resistant boots).

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Liquid  
Form: Clear  
Color: Colorless - Slightly pale yellow  
Odor: No data available  
Odor threshold: No data available  
Melting point/freezing point: No data available  
Relative density: 1.84  
Boiling point/range: 143°C (289°F)/3.3kPa  
Phenyltin Trichloride  
Flash point: 113°C (235°F)  
Vapor pressure:  
Autoignition temperature: No data available  
No data available  
Flammability (solid, gas): No data available  
Flammability or explosive limits:  
Decomposition temperature: No data available  
Solubility(ies):  
Water: Insoluble  
Dynamic Viscosity: No data available  
Kinematic Viscosity: No data available  
pH: No data available  
Partition coefficient:  
n-octanol/water (log Pow)  
No data available  
Evaporation rate:  
(Butyl Acetate = 1)  
No data available  
Boiling point/range: 143°C (289°F)/3.3kPa  
Flash point: 113°C (235°F)  
Vapor pressure: No data available  
Autoignition temperature: No data available  
Flammability (solid, gas): No data available  
Flammability or explosive limits:  
Decomposition temperature: No data available  
Lower: No data available  
Upper: No data available

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## SECTION 10. STABILITY AND REACTIVITY

Reactivity: Corrodes in contact with metals.  
Chemical Stability: Moisture sensitive.  
Possibility of Hazardous Reactions: No hazardous reactivity has been reported.  
Conditions to avoid: Exposure to moisture. Moisture sensitive.  
Incompatible materials: Moisture, Strong oxidizing agents  
Hazardous Decomposition Products: No data available

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## SECTION 11. TOXICOLOGICAL INFORMATION

RTECS Number: WH8730000  
Acute Toxicity:

No data available  
Skin corrosion/irritation:  
No data available  
Serious eye damage/irritation:  
No data available  
Respiratory or skin sensitization:  
No data available  
Germ cell mutagenicity:  
No data available  
Carcinogenicity:  
No data available  
IARC: No data available  
NTP: No data available  
OSHA: No data available  
Reproductive toxicity:  
No data available  
Routes of Exposure: Inhalation, Eye contact, Ingestion, Skin contact.  
Symptoms related to exposure:  
Skin contact may produce burns. Skin contact may result in inflammation; characterized by itching, scaling, reddening, or occasionally blistering. Eye contact can result in corneal damage or blindness. Inflammation of the eye is characterized by redness, watering, and itching.  
Potential Health Effects:  
No specific information available; skin and eye contact may result in irritation. May be harmful if inhaled or ingested.  
Target organ(s): No data available

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## **SECTION 12. ECOLOGICAL INFORMATION**

Ecotoxicity  
Fish: No data available  
Crustacea: No data available  
Algae: No data available  
Persistence and degradability: No data available  
Bioaccumulative potential (BCF): No data available  
Mobility in soil: No data available  
Partition coefficient:  
n-octanol/water (log Pow)  
No data available  
Soil adsorption (Koc): No data available  
Henry's Law:  
constant (PaM<sup>3</sup>/mol)  
No data available

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## **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal of product: Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to

provide  
assistance but does not replace these laws, nor does compliance in accordance with this section  
ensure  
regulatory compliance according to the law. US EPA guidelines for Identification and Listing of  
Hazardous  
Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment,  
drains,  
water ways, or the soil.  
Disposal of container: Dispose of as unused product. Do not re-use empty containers.  
Other considerations: Observe all federal, state and local regulations when disposing of the  
substance.

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## **SECTION 14. TRANSPORT INFORMATION**

DOT (US)  
UN number: UN2788  
Proper Shipping Name: Organotin compound, liquid, n.o.s.  
Class or Division: 6.1 Toxic material.  
Packing Group: III  
IATA  
UN number: UN2788  
Proper Shipping Name: Organotin compound, liquid, n.o.s.  
Class or Division: 6.1 Toxic material.  
Packing Group: III  
imgd  
UN number: UN2788  
Proper Shipping Name: Organotin compound, liquid, n.o.s.  
Class or Division: 6.1 Toxic material.  
Packing Group: III  
Marine Pollutant: Severe Marine Pollutant  
EmS number: F-A, S-A

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## **SECTION 15. REGULATORY INFORMATION**

Toxic Substance Control Act (TSCA 8b.):  
This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following  
notices are required by 40 CFR 720.36 (C) for those  
products not on the inventory list:  
(i) These products are supplied solely for use in research and development by or under the  
supervision of a technically qualified individual as defined in  
40 CFR 720.0 et sec.  
(ii) The health risks of these products have not been fully determined. Any information that is or  
becomes available will be supplied on a SDS sheet.  
US Federal Regulations  
CERCLA Hazardous substance and Reportable Quantity:  
SARA 313: Not Listed  
SARA 302: Not Listed  
State Regulations  
State Right-to-Know  
Massachusetts Not Listed  
New Jersey Not Listed

Pennsylvania Not Listed  
California Proposition 65: Not Listed  
Other Information  
NFPA Rating:  
Health: 0  
Flammability: 1  
Instability: 0  
HMIS Classification:  
Health: 0  
Flammability: 1  
Instability: 0  
International Inventories  
WHMIS hazard class: E: Corrosive material.  
EC-No: 214-393-3

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## **SECTION 16. OTHER INFORMATION**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.