



# SAFETY DATA SHEET

## Section 1. Identification

<b>Product Name:</b>	<a href="#">Tetraallyltin</a>
<b>Product Type:</b>	Liquid
<b>CAS Number:</b>	7393-43-3
<b>Product Number:</b>	SN3433
<b>Product Manufacturer:</b>	Ereztech LLC 11555 Medlock Bridge Road, Suite 100 Johns Creek, GA 30097
<b>Product Information:</b>	(888) 658-1221
<b><u>In Case of an Emergency:</u></b>	CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International); CCN836180 *** Contact manufacturer for all non-emergency calls.

## Section 2. Hazards Identification

<b>Appearance/Odor:</b>	Light yellow liquid, odor not determined.
<b>Classification:</b>	FLAMMABLE LIQUID – Category 4, H227 ACUTE TOXICITY; ORAL - Category 3, H301 ACUTE TOXICITY; DERMAL – Category 3, H311 SKIN CORROSION/IRRITATION – Category 2, H315 SERIOUS EYE DAMAGE/EYE IRRITATION – Category 2A, H319 ACUTE TOXICITY; INHALATION – Category 3, H331 SPECIFIC TARGET ORGAN TOXICITY, SINGLE EXPOSURE; RESPIRATORY TRACT IRRITATION – Category 3, H335 HAZARDOUS TO THE AQUATIC ENVIRONMENT, ACUTE TOXICITY – Category 1, H400 HAZARDOUS TO THE AQUATIC ENVIRONMENT, CHRONIC TOXICITY – Category 1, H410

### GHS Label Elements

<b>Signal Word:</b>	DANGER
<b>Hazard Statements:</b>	H227: Combustible liquid. H301: Toxic if swallowed. H311: Toxic in contact with skin. H315: Causes skin irritation. H319: Causes serious eye irritation.

# Tetraallyltin

## Safety Data Sheet

### Section 2. Hazards Identification

**Hazard Statements (cont.):** H331: Toxic if inhaled.  
H335: May cause respiratory irritation.  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.

**Hazard Pictograms:**



#### Precautionary Statements

**Prevention:**

P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  
P261: Avoid breathing sprays/mists/vapors/gases.  
P264: Wash skin thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P271: Use only outdoors or in a well-ventilated area.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P311: Call a POISON CENTER or doctor/physician.  
P330: Rinse mouth.  
P332 + P313: If skin irritation occurs: Get medical advice/attention.  
P337 + P313: If eye irritation persists: Get medical advice/attention.  
P361: Remove/Take off immediately all contaminated clothing.  
P363: Wash contaminated clothing before reuse.  
P370 + P378: In case of fire: Use water spray, dry sand, carbon dioxide, dry chemical or foam for extinction.  
P391: Collect spillage.

**Storage:**

P403 + P233 + P235: Store in a well ventilated place. Keep container tightly closed. Keep cool.  
P405: Store locked up.

# Tetraallyltin

## Safety Data Sheet

### Section 2. Hazards Identification

<b>Disposal:</b>	P501: Dispose of contents/ container to an approved wasted disposal plant.
<b>General:</b>	None identified.
<b>OSHA/HCS Status:</b>	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
<b>Hazards Not Otherwise Classified (HNOC):</b>	Product reacts vigorously with water to release flammable gases.

### Section 3. Composition/Information on Ingredients

#### Substances

<b>Synonyms</b>	: Tetraallylstannane; Stannane, tetra-2-propenyl-; Stannane, tetraallyl.
<b>Formula</b>	: C <sub>12</sub> H <sub>20</sub> Sn
<b>Molecular Weight</b>	: 282.98 g/mol
<b>CAS-No.</b>	: 7393-43-3

Ingredient Name	%	CAS Number
<a href="#">Tetraallyltin</a>	≥ 95	7393-43-3

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First Aid Measures

#### Description of Necessary First Aid Measures

<b>General Advice:</b>	Move out of dangerous area. Call a POISON CENTER or doctor/physician immediately. Show this safety data sheet to the doctor in attendance. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
<b>Eye Contact:</b>	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Rinse for a minimum of 15 minutes. Check for and remove any contact lenses after initial rinse period and continue rinsing for an additional 15 minutes. Keep eyes wide open during rinsing process. Call a POISON CENTER or doctor/physician immediately.
<b>Skin Contact:</b>	Remove all contaminated clothing and shoes. Wash off contaminated skin with soap and plenty of water. Call a POISON CENTER or doctor/physician immediately.

# Tetraallyltin

## Safety Data Sheet

### Section 4. First Aid Measures

- Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Call a POISON CENTER or doctor/physician immediately.
- Ingestion:** Do NOT induce vomiting. Rinse mouth. Remove dentures if any. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician immediately.

#### Most Important Symptoms/Effects, Acute and Delayed Potential Acute Health Effects

- Eye Contact:** Symptoms may include stinging, tearing, redness, swelling and blurred vision.
- Inhalation:** Product is toxic if inhaled and may be irritating to mucous membranes and tissues of the upper respiratory tract. Symptoms may include a burning sensation, coughing, wheezing, laryngitis, shortness of breath/ difficulty in breathing (dyspnea), nausea and headaches.
- Skin Contact:** Product is toxic in contact with the skin and may be expected to be irritating to the skin. Symptoms may include reddening of skin, a burning or itching sensation and pain.
- Ingestion:** Product is toxic if ingested. Symptoms may include pain when swallowing (odynophagia), difficulty swallowing (dysphagia), fever, nausea, recurrent vomiting (emesis) and vomiting of blood (hematemesis).

#### Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary

- Notes to Physician:** Poisoning by the product may initially be asymptomatic. Treat symptomatically.
- Specific Treatments:** No specific treatment.
- Protection of First Responders:** No action taken shall be taken involving any personal risk without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See Toxicological Information (Section 11)

### Section 5. Fire Fighting Measures

- General Hazards:** Combustible liquid.
- Suitable Extinguishing Media:** Use water spray, vermiculite, sand, dry chemical or carbon dioxide (CO<sub>2</sub>).
- Unsuitable Extinguishing Media:** None identified
- Unusual Fire and Explosion Hazards:** None identified.

# Tetraallyltin

## Safety Data Sheet

### Section 5. Fire Fighting Measures

<b>Product of Combustion:</b>	Decomposition products may include carbon oxides (CO <sub>x</sub> ), and tin oxides. Irritating fumes and organic acid vapors may be generated during exposure to elevated temperatures or open flame.
<b>Protection of Firefighters:</b>	<p>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Avoid contact with skin or eyes. Avoid the formation and inhalation of sprays, mists, vapors or gases.</p> <p>Eliminate all local and distant ignition sources. Move containers from fire area if process can be accomplished without risk to firefighters.</p> <p>Fire-fighters should wear appropriate protection equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in a positive pressure mode.</p>

### Section 6. Accidental Release Measures

#### Personal Precautions, Protective Equipment and Emergency Procedures

<b>For Non-Emergency Personnel:</b>	No action shall be taken involving any personal risk or without suitable training. Remove all sources of ignition – NO SMOKING. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid the formation and inhalation of sprays, mists, vapors and gases. Provide adequate ventilation. Wear respiratory protection. Put on appropriate personal protective equipment.
<b>For Emergency Responders:</b>	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For Non-Emergency Personnel".
<b>Environmental Precautions:</b>	Do not allow dispersal of spilled material and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
<b><u>Methods for Containment</u></b>	
<b>General:</b>	Eliminate all local and distant ignition sources. Move containers from spill area if safe to do so.

# Tetraallyltin

## Safety Data Sheet

### Section 6. Accidental Release Measures

- Small Spill:** Contain and collect spillage with a dry, non-combustible absorbent material (e.g. sand, earth, vermiculite or diatomaceous earth) and place in dry, sealed container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor.
- Large Spill:** Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with a dry, non-combustible absorbent material (e.g. sand, earth, vermiculite or diatomaceous earth) and place in dry, sealed container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

### Section 7. Handling and Storage

- Precautions:** Keep away from all sources of ignition – NO SMOKING. Keep container tightly sealed. Avoid contact with skin, eyes and clothing. Avoid the formation and inhalation of sprays, mists, vapors and gases. Do not ingest. Avoid prolonged exposure. Ensure adequate ventilation.
- Protective Measures:** Put on appropriate personal protective equipment (see Section 8). Keep in the original container kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- General Occupational Hygiene:** Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Safe Storage Conditions:** Keep away from all sources of ignition – NO SMOKING. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use. Store locked up.

# Tetraallyltin

## Safety Data Sheet

### Section 8. Exposure Controls/Personal Protection

#### Introductory Remarks:

These recommendations provide general guidance for handling this product. Because work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and conduct regular repairs. Waste from these procedures should be handled in accordance with Section 13.

#### Occupational Exposure Limits

List	Components	CAS-No.	Type	Value
ACGIH	Methyltin trichloride	993-16-8	TLV	0.1 mg/m <sup>3</sup> (TWA) Sn 0.2 mg/m <sup>3</sup> (STEL) Sn
OSHA Z1	Methyltin trichloride	993-16-8	PEL	0.1 mg/m <sup>3</sup> (TWA) Sn

#### Engineering Controls:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Provide an eyewash/shower station.

#### Environmental Exposure Controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual Protection Measures

##### Hygiene Measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Remove all soiled and contaminated clothing immediately. Do not inhale sprays, mists, vapors or gases. Avoid contact with eyes and skin. Ensure that eyewash stations and safety showers are close to the workstation location.

##### Eye/Face Protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to dusts and aerosols. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles, faceshield (8-inch minimum). Refer to 29 CFR 1910.133, ANSI Z87.1, or European Standard EN166.

# Tetraallyltin

## Safety Data Sheet

### Section 8. Exposure Controls/Personal Protection

#### Skin Protection

##### **Hand Protection:**

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Chemical-resistant gloves.

Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. For full contact, wear gloves made from Neoprene or nitrile rubber.

##### **Other Skin Protection:**

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

##### **Respiratory Protection:**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Section 9. Physical and Chemical Properties

##### **Physical State:**

Liquid.

##### **Color:**

Light yellow.

##### **Odor:**

Not determined.

##### **Odor Threshold:**

No data available.

##### **pH:**

No data available.



# Tetraallyltin

## Safety Data Sheet

### Section 9. Physical and Chemical Properties

<b>Melting Point:</b>	No data available.
<b>Boiling Point:</b>	69 - 70 °C (156 - 158 °F).
<b>Flash Point:</b>	75 °C (167 °F) – closed cup.
<b>Auto-ignition temperature:</b>	No data available.
<b>Relative Density:</b>	1.179 g/cm <sup>3</sup> @ 25 °C (77 °F).
<b>Vapor Pressure:</b>	No data available.
<b>Vapor Density:</b>	No data available.
<b>Water Solubility:</b>	No data available.

### Section 10. Stability and Reactivity

<b>Reactivity:</b>	No additional information available.
<b>Chemical Stability:</b>	Stable at normal ambient temperature and pressure and under recommended storage conditions.
<b>Conditions to Avoid:</b>	Exposure to sources of ignition (heat, flames, sparks, electrostatic discharge), extremes of temperature and direct sunlight.
<b>Incompatible Materials:</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products:</b>	Carbon oxides (CO <sub>x</sub> ), tin oxides and organic acid vapors.
<b>Possibility of Hazardous Reactions:</b>	Under normal conditions of storage and use noted above, hazardous reactions will not occur. Hazardous reactions or instability may occur under certain conditions of storage or use.

### Section 11. Toxicological Information

#### Information on Toxicological Effects

<b>Acute Toxicity</b>	: Product is toxic if swallowed, inhaled or in contact with skin.
<b>Irritation/Corrosion</b>	: No specific data available. Product is irritating to exposed eye and skin tissues as well as to exposed mucous membranes.
<b>Sensitization</b>	: No specific data available. Product is suspected of causing skin sensitization.
<b>Germ Cell Mutagenicity</b>	: No specific data available.
<b><u>Carcinogenicity</u></b>	
<b>IARC</b>	: No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

# Tetraallyltin

## Safety Data Sheet

### Section 11. Toxicological Information

#### Carcinogenity (cont.)

**ACGIH** : No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

**NTP** : No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

**OSHA** : No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

**Reproductive Toxicity** : No specific data available.

**Teratogenicity** : No specific data available.

**Specific Target Organ Toxicity (Single Exposure)** : May cause respiratory irritation.

**Specific Target Organ Toxicity (Repeated Exposure)** : No specific data available.

**Aspiration Hazard** : No specific data available.

**Information on the Likely Routes of Exposure** : Common routes of exposure: inhalation, dermal (failure to use skin protection), eye (failure to use safety eyewear). Less common: ingestion (failure to employ recommended hygiene measures (e.g. smoking or eating after handling product without washing hands or using hand protection)).

**Additional Information** : To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### Section 12. Ecological Information

#### Numerical Measures of Toxicity

**Toxicity to Fish** : No specific data available.

**Toxicity to Daphnia and other Aquatic Invertebrates** : No specific data available.

**Toxicity to Algae** : No specific data available.

#### Persistence and Degradability

**Biodegradability** : No specific data available.

**Bioaccumulative Potential** : No specific data available.

**Mobility in Soil** : No specific data available.

# Tetraallyltin

## Safety Data Sheet

### Section 12. Ecological Information

#### Other Adverse Effects

: Product is very toxic for aquatic organisms, may cause long-lasting harmful effects to aquatic life. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

### Section 13. Disposal Considerations

#### Waste Treatment Methods

##### Product

Dispose of in accordance with local, state, and federal regulations. Refer to 40 CFR 260-299 for complete waste disposal regulations. Consult your local, state, or federal agency before disposing of any chemicals.

##### Contaminated Packaging

Empty containers retain product residue (dusts, aerosols and/or vapors) and can be dangerous. Keep product and container away from heat and all ignition sources. Dispose of in the same manner as unused product.

### Section 14. Transport Information

	DOT	IMDG	IATA
UN Number	UN2788	UN2788	UN2788
UN Proper Shipping Name	Organotin compound, liquid, n.o.s. (Tetraallyltin)	ORGANOTIN COMPOUND, LIQUID, N.O.S. (Tetraallyltin)	Organotin compound, liquid, n.o.s. (Tetraallyltin)
Transport Hazard Classes	6.1	6.1	6.1
Packing Group	III	III	III
Environmental Hazards	Yes	Yes	Yes
Additional Information	-	EMS No: F-A, S-A	-

#### Special Precautions for User

: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

#### Transporting in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

: Not applicable.

# Tetraallyltin

## Safety Data Sheet

### Section 15. Regulatory Information

#### **TSCA (Toxic Substance Control Act):**

This product is not listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory). Use of this product is restricted to research and development only. This product must be used under the supervision of a technically qualified individual as defined by the TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes.

#### **SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### **SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### **SARA 311/312 Hazards**

Fire Hazard (Flammable Liquid); Acute Health Hazard ((Acute Toxicity – Ingestion, Inhalation, Dermal); Skin Corrosion or Irritation; Serious Eye Damage or Eye Irritation).

#### **Massachusetts Right to Know Components**

No components are subject to Massachusetts Right to Know Act.

#### **Pennsylvania Right to Know Components**

No components are subject to Pennsylvania Right to Know Act.

#### **New Jersey Right to Know Components**

No components are subject to New Jersey Right to Know Act.

#### **California Proposition 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### Section 16. Other Information

#### National Fire Protection Association (U.S.A.)



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# Tetraallyltin

## Safety Data Sheet

### Section 16. Other Information

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### HMIS Rating

<b>HEALTH</b>	<b>3</b>
<b>FLAMMABILITY</b>	<b>2</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

#### History

**Date of Issue/Date of Revision** : 8/20/2021

**Date of Previous Issue** : None.

**References** : None available.

#### Abbreviations and Acronyms

ACGIH: American Conference of Governmental Industrial Hygienists.

ATE: Acute Toxicity Estimate

CAS: Chemical Abstracts Service (division of the American Chemical Society).

DOT: US Department of Transportation.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

HMIS: Hazardous Materials Identification System.

HNOC: Hazards Not Otherwise Classified.

IARC: International Agency for Research on Cancer.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA).

IDLH: Immediately Dangerous to Life or Health (US National Institute for Occupation Health and Safety (NIOSH)).

IMDG: International Maritime Code for Dangerous Goods.

NFPA: National Fire Protection Association.

NIOSH: National Institute of Occupational Safety and Health.

NTP: National Toxicology Program.

OSHA: Occupational Safety and Health Administration.

PEL: Permissible Exposure Limits.

REL: Recommended Exposure Limits.

SARA: Superfund Amendments and Reauthorization Act.

STOT: Specific Target Organ Toxicity.

TLV: Threshold Limit Values (ACGIH).

TWA: Time Weighted Average.

VOC: Volatile Organic Compound.

# Tetraallyltin

## Safety Data Sheet

### Section 16. Other Information

#### Disclaimer

The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by Ereztech LLC regarding the accuracy or completeness of the information. Ereztech LLC shall not be liable for any damages resulting from the handling, or from the contact with the above product.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

