SIGMA-ALDRICH

Material Safety Data Sheet

Version 3.0 Revision Date 08/27/2009 Print Date 01/01/2012

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Tetraethyltin

Product Number : 229229 Brand : Aldrich

Company : Sigma-Aldrich

3050 Spruce Street

SAINT LOUIS MO 63103

USA

Telephone : +1 800-325-5832 Fax : +1 800-325-5052 Emergency Phone # : (314) 776-6555

2. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C₈H₂₀Sn Molecular Weight : 234.95 g/mol

CAS-No.	EC-No.	Index-No.	Concentration	
Tetraethyltin				
597-64-8	209-906-2	050-006-00-2	-	

3. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards

Combustible Liquid, Highly toxic by inhalation, Highly toxic by ingestion, Highly toxic by skin absorption

HMIS Classification

Health Hazard: 4
Flammability: 2
Physical hazards: 0

NFPA Rating

Health Hazard: 4
Fire: 2
Reactivity Hazard: 0

Potential Health Effects

InhalationSkinMay be fatal if inhaled. May cause respiratory tract irritation.May cause skin irritation. May be fatal if absorbed through skin.

Eyes May cause eye irritation. **Ingestion** May be fatal if swallowed.

4. FIRST AID MEASURES

General advice

Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Flammable properties

Flash point 53 °C (127 °F) - closed cup

Ignition temperature no data available

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods for cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

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).

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Hand protection

Handle with gloves.

Eye protection

Face shield and safety glasses

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form liquid
Colour colourless

Safety data

pH no data available

Melting point -112 °C (-170 °F) - lit.

Boiling point 181 °C (358 °F) - lit.

Flash point 53 °C (127 °F) - closed cup

Ignition temperature no data available
Lower explosion limit no data available
Upper explosion limit no data available

Density 1.187 g/mL at 25 °C (77 °F)

Water solubility no data available

10. STABILITY AND REACTIVITY

Storage stability

Stable under recommended storage conditions.

Materials to avoid

Strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Tin/tin oxides

11. TOXICOLOGICAL INFORMATION

Acute toxicity

LD50 Oral - rat - 6.25 mg/kg

Remarks: Behavioral:Ataxia. Gastrointestinal:Changes in structure or function of salivary glands. Diarrhoea

LC50 Inhalation - rat - 114 mg/m3

Remarks: Behavioral:Muscle weakness. Lungs, Thorax, or Respiration:Dyspnea. Blood: Hemorrhage.

Irritation and corrosion

no data available

Sensitisation

no data available

Chronic exposure

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as

a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as

a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as

a carcinogen or potential carcinogen by OSHA.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated., General signs of toxicity for overexposure to tetraalkyl tin compounds include muscular weakness and paralysis, leading to respiratory failure, tremors, convulsive movements, closure of the eyelids, and photophobia. Histologically, tetraalkyl tin compounds show a decrease in cytoplasmic basophilia of the liver, chromatolysis of the Purkinje cells of the cerebellum, and increase in the water content of the brain and spinal cord.

Potential Health Effects

Inhalation May be fatal if inhaled. May cause respiratory tract irritation.Skin May cause skin irritation. May be fatal if absorbed through skin.

Eyes May cause eye irritation. **Ingestion** May be fatal if swallowed.

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

no data available

Ecotoxicity effects

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 0.011 mg/l - 96 h

Toxicity to algae EC50 - Skeletonema costatum - 0.142 mg/l - 72 h

Further information on ecology

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

no data available

13. DISPOSAL CONSIDERATIONS

Product

Contact a licensed professional waste disposal service to dispose of this material. This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN-Number: 3384 Class: 6.1 (3) Packing group: I

Proper shipping name: Toxic by inhalation liquid, flammable, n.o.s. (Tetraethyltin)

Marine pollutant: No

Poison Inhalation Hazard: Hazard zone B

IMDG

UN-Number: 3384 Class: 6.1 (3) Packing group: I EMS-No: F-E, S-D Proper shipping name: TOXIC BY INHALATION LIQUID, FLAMMABLE, N.O.S. (Tetraethyltin)

Marine pollutant: No

IATA

UN-Number: 3384 Class: 6.1 (3)

Proper shipping name: Toxic by inhalation liquid, flammable n.o.s. (Tetraethyltin)

IATA Passenger: Not permitted for transport IATA Cargo: Not permitted for transport

15. REGULATORY INFORMATION

OSHA Hazards

Combustible Liquid, Highly toxic by inhalation, Highly toxic by ingestion, Highly toxic by skin absorption

DSL Status

This product contains the following components listed on the Canadian NDSL list. All other components are on the Canadian DSL list.

CAS-No. Tetraethyltin 597-64-8

SARA 302 Components

Tetraethyltin CAS-No. Revision Date 597-64-8 2007-07-01

SARA 313 Components

SARA 313: 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, Acute Health Hazard

Massachusetts Right To Know Components

Tetraethyltin CAS-No. Revision Date 597-64-8 2007-07-01

Pennsylvania Right To Know Components

Tetraethyltin CAS-No. Revision Date 597-64-8 2007-07-01

New Jersey Right To Know Components

Tetraethyltin CAS-No. Revision Date 597-64-8 2007-07-01

California Prop. 65 Components

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

16. OTHER INFORMATION

Further information

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