



Material Safety Data Sheet

Tetraethyltin, 97%

MSDS# 32410

Section 1 - Chemical Product and Company Identification

MSDS Name: Tetraethyltin, 97%
Catalog Numbers: AC212070000, AC212070050
Synonyms: Tetraethylstannine.

Company Identification: Acros Organics BVBA
Janssen Pharmaceuticaaan 3a
2440 Geel, Belgium

Company Identification: (USA) Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

For information in the US, call: 800-ACROS-01
For information in Europe, call: +32 14 57 52 11
Emergency Number, Europe: +32 14 57 52 99
Emergency Number US: 201-796-7100
CHEMTREC Phone Number, US: 800-424-9300
CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#: 597-64-8
Chemical Name: Tetraethyl tin
%: 97
EINECS#: 209-906-2

Hazard Symbols: T+



Risk Phrases: 10 26/27/28

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Danger! Flammable liquid and vapor. Combustible liquid and vapor. Air sensitive. May cause central nervous system depression. Poison! May cause eye and skin irritation with possible burns. May be fatal if inhaled, absorbed through the skin or swallowed. Tends to ignite in air. Target Organs: Central nervous system.

Potential Health Effects

Eye: May cause eye irritation and possible burns. May cause chemical conjunctivitis and corneal damage.
Skin: May be fatal if absorbed through the skin. Effects of contact may be delayed. Causes skin irritation and possible burns. Substance is readily absorbed through the skin. May cause cyanosis of the extremities.
Ingestion: May be fatal if swallowed. Causes gastrointestinal irritation with nausea, vomiting and diarrhea. May cause central nervous system effects and/or neurological effects. Ingestion may cause retina and optic nerve damage.
Inhalation: May be fatal if inhaled. May cause effects similar to those described for ingestion. Aspiration may lead to pulmonary edema. Inhalation at high concentrations may cause CNS depression and asphyxiation. Causes irritation of the mucous membrane and upper respiratory tract.

Chronic: Chronic ingestion may cause liver damage. Effects may be delayed.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. **SPEEDY ACTION IS CRITICAL, GET MEDICAL AID IMMEDIATELY.**

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Notes to Physician: Treat symptomatically and supportively. Effects may be delayed.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Water runoff can cause environmental damage. Dike and collect water used to fight fire. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Flammable liquid and vapor. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. Containers may explode when heated.

Extinguishing Media: In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. For large fires, use water spray, fog or regular foam. For small fires, use dry chemical, carbon dioxide, water spray or regular foam.

Autoignition Temperature: Not applicable.

Flash Point: 53 deg C (127.40 deg F)

Explosion Limits: Lower: Not available

Explosion Limits: Upper: Not available

NFPA Rating: health: 3; flammability: 2; instability: 1;

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Use water spray to disperse the gas/vapor. Remove all sources of ignition. Absorb spill using an absorbent, non-combustible material such as earth, sand, or vermiculite. Do not use combustible materials such as sawdust. Use a spark-proof tool. Provide ventilation. Place under an inert atmosphere.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Do not get in eyes, on skin, or on clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep away from heat, sparks and flame. Do not ingest or inhale. Handle under an inert atmosphere. Store protected from air. Use only in a chemical fume hood. Discard contaminated shoes. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Storage: Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Poison room locked. Do not expose to air. Store under an inert atmosphere.

Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Tetraethyl tin	0.1 mg/m ³ TWA (as Sn) (listed under Tin	0.1 mg/m ³ TWA (as Sn, except Cyhexatin)	0.1 mg/m ³ TWA (as Sn) (listed under

	organic	(listed under	Tin organic
	compounds).0.2	Tin organic	compounds).
	mg/m3 STEL (as	compounds).25	
	Sn) (listed	mg/m3 IDLH (as	
	under Tin organic	Sn, except	
	compounds).Skin -	Cyhexatin)	
	potential	(listed under	
	significant	Tin organic	
	contribution to	compounds).	
	overall exposure		
	by the cutaneous		

OSHA Vacated PELs: Tetraethyl tin: 0.1 mg/m3 TWA (as Sn) (listed under Tin organic compounds)

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

Exposure Limits

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Color: Clear

Odor: none reported

pH: Not available

Vapor Pressure: 0.002 mm Hg @25 deg C

Vapor Density: 8.10

Evaporation Rate: Not available

Viscosity: Not available

Boiling Point: 181 deg C (357.80°F)

Freezing/Melting Point: -112 deg C (-169.60°F)

Decomposition Temperature: Not available

Solubility in water: Insoluble

Specific Gravity/Density: 1.1870g/cm3

Molecular Formula: C8H20Sn

Molecular Weight: 234.94

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures. Air sensitive. Forms explosive mixtures with air.

Conditions to Avoid: Ignition sources, exposure to air, excess heat.

Incompatibilities with Other Materials: Strong oxidizing agents, air.

Hazardous Decomposition Products: Carbon monoxide, carbon monoxide, carbon dioxide, tin/tin oxides, tin/tin oxides.

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 597-64-8: WH8625000

RTECS:

CAS# 597-64-8: Inhalation, mouse: LC50 = 180 mg/m3;

Inhalation, rat: LC50 = 114 mg/m3;

LD50/LC50: Oral, mouse: LD50 = 39800 ug/kg;
Oral, rabbit: LD50 = 7 mg/kg;
Oral, rat: LD50 = 6250 ug/kg;

Carcinogenicity: Tetraethyl tin - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Ecotoxicity: Fish: Fathead Minnow: LC50: 11.0 mg/L; 96 hr; Flow-through bioassay w/measured concentrations
Fish: Fathead Minnow: EC50: 7.19 ug/L; 96 hr; Flow-through bioassay w/measured concentrations

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: TOXIC LIQUIDS, FLAMMABLE, ORGANIC, N.O.S.

Hazard Class: 6.1

UN Number: UN2929

Packing Group: I

Canada TDG

Shipping Name: Not available

Hazard Class:

UN Number:

Packing Group:

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T+

Risk Phrases:

R 10 Flammable.

R 26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.

Safety Phrases:

S 16 Keep away from sources of ignition - No smoking.

S 23 Do not inhale gas/fumes/vapour/spray.

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 597-64-8: Not available

Canada

CAS# 597-64-8 is listed on Canada's NDSL List

Canadian WHMIS Classifications: B3, D1A

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 597-64-8 is listed on Canada's Ingredient Disclosure List

US Federal

TSCA

CAS# 597-64-8 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 7/12/1999

Revision #8 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.
