

**Safety Data Sheet**  
**According to Hazard Communication Standard (29 CFR 1910.1200)**

Methyl tin Mercaptide

Issue date: 05/14/2015

Version 1.0

Revision date: 05/14/2015

## 1. Product and Company Identification

**Material name** Methyl tin Mercaptide  
**CAS #** See section 3  
**Product code** -  
**Product use** As heat stabilizers for PVC molding process, suitable for all kinds of hard, soft PVC processing.  
**Manufacturer/Supplier**  
**Supplier(Manufacturer):** YUNNAN TIN CO.LTD  
**Address:** NO 121, Jinhu East Road, Gejiu City, Yunnan Province.  
**Contact person(E-mail):** ZJB6942@163.com  
**Telephone:** +86-873-3116942  
**Fax:** +86-873-3116942  
**Emergency telephone Number:** +86-873-3117360

## 2. Hazards identification

### GHS classification

<b>Physical hazards</b>	Not classified	
<b>Health hazards</b>	Acute toxicity, oral	Category 4
	Skin sensitization	Category 1
	Reproductive toxicity	Category 1
	Specific target organ toxicity after repeated exposure	Category 1
<b>Environmental hazards</b>	Not classified	

### GHS label elements

#### Hazard Pictograms



#### Signal word

Danger

#### Hazard statement

Harmful if swallowed  
May cause an allergic skin reaction  
Suspected of damaging fertility or the unborn child  
Causes damage to organs (nervous system, immune system)

### Precautionary statement

#### Prevention

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.  
Avoid breathing dust/fume/ gas/mist/vapors/spray.  
Wash hands thoroughly after handling.  
Do not eat, drink or smoke when using this product.

<b>Response</b>	Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Call a poison center/doctor if you feel unwell. If on skin: Wash with plenty of water. If exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell. Rinse mouth. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
<b>Storage</b>	Store locked up.
<b>Disposal</b>	Dispose of contents/container in corroding with local regulation.

### 3. Composition / Information on Ingredients

Components	CAS#	Percent
2-ethylhexyl-10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate	57583-35-4	90-10%
2-ethylhexyl-10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-methyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate	57583-34-3	10-90%

### 4. First Aid Measures

#### First aid procedures

<b>Eye contact</b>	Rinse with plenty of water. If eye irritation persists, consult a specialist.
<b>Skin contact</b>	Take off all contaminated clothing immediately. Wash off with soap and plenty of water. Wash contaminated clothing before re-use. Do not take clothing home to be laundered. In the case of skin irritation or allergic reactions see a physician.
<b>Inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
<b>Ingestion</b>	Induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.
<b>Notes to physician</b>	Treat symptoms.

### 5. Fire Fighting Measure

<b>Flammable properties</b>	This product is non-flammable.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Water spray. Foam.
<b>Unsuitable extinguishing media</b>	Not Available
<b>Firefighting equipment/instructions</b>	Wear self-contained breathing apparatus and protective suit. Use water spray to cool unopened containers.
<b>Hazardous combustion products</b>	Carbon oxides, sulfur oxides, tin oxide.

### 6. Accidental Release Measures

<b>Personal precautions</b>	Use personal protective equipment. Keep people away from and upwind of spill/leak. Material can create slippery conditions.
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**Environmental precautions**

Should not be released into the environment. If the product contaminates rivers and lakes or drains inform respective authorities.

**Methods for cleaning up**

Large spills: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.

Small spills: Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

**7. Handling and Storage****Handling**

Ensure adequate ventilation. When using do not eat, drink or smoke. Avoid breathing vapors. Avoid contact with eyes. Wear protective equipment. Keep unprotected persons away.

**Storage**

Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

**8. Exposure Controls / Personal Protection****Control parameters:****OCCUPATIONAL EXPOSURE LIMITS (OEL)****INGREDIENT DATA:**

Source	Ingredient	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Levels (PELs)- Table Z1	2-ethylhexyl10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate	0.1mg/m3	Not Available	Not Available	(as Sn)
US ACGIH Threshold Limit Values (TLV)	2-ethylhexyl10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate	0.1mg/m3	0.2 mg/m3	Not Available	TLV® Basis: Eye & URT irr; headache; nausea; CNS & immune eff
US OSHA Permissible Exposure Levels (PELs)- Table Z1	2-ethylhexyl10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-methyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate	0.1mg/m3	Not Available	Not Available	(as Sn)
US ACGIH Threshold Limit Values (TLV)	2-ethylhexyl10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-methyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate	0.1mg/m3	0.2 mg/m3	Not Available	TLV® Basis: Eye & URT irr; headache; nausea; CNS & immune eff

**EMERGENCY LIMITS:**

Ingredient	TEEL-1	TEEL-2	TEEL-3
2-ethylhexyl10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-methyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
2-ethylhexyl10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate	Unknown mg/m3 / Unknown ppm	25 mg/m3
2-ethylhexyl10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-methyl-7-oxo-8-oxa-3,5-	Unknown mg/m3 / Unknown ppm	25 mg/m3

**Exposure controls:**

**Appropriate engineering controls:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Individual protection measures, such as personal protective equipment:**

**Eye / face protection** Chemical resistant goggles.

**Skin protection** Chemical-resistant gloves. Impervious clothing. Chemical resistant apron.

**Respiratory protection** Suitable respiratory protective device recommended.

**General hygiene considerations** 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.

**9. Physical & Chemical Properties****Appearance**

**Physical state** Liquid

**Form** Liquid

**Color** Colorless or light yellow transparent liquid

**Odor** Mercaptan odor

**Odor threshold** Not available

**pH** Not available

**Vapor pressure** Not available

**Vapor density** 4.5(air=1)

**Boiling point** 221.1°C

**Melting point/Freezing point** Not available

**Solubility (water)** Insoluble in water

**Specific gravity** Not available

**Relative density** 1.17

**Density** Not available

**Flash point** 150°C(closed cup)

**Flammability limits in air, upper, %by volume** Not available

**Flammability limits in air, lower, % by volume** Not available

**Auto-ignition temperature** Not available

**VOC** Not available

**Percent volatile** Not available

**Other data**

**Viscosity** Not available

**10. Chemical Stability & Reactivity Information**

**Reactivity** The substance is stable under normal storage and handling conditions.

**Chemical stability** Material is stable under normal conditions.

**Conditions to avoid** Incompatible materials.

**Incompatible materials** Strong acids and strong bases.

**Hazardous decomposition products** Carbon oxides, sulfur oxides, tin oxide.

**Possibility of hazardous reactions** No dangerous reactions known.

## 11. Toxicological Information

### Toxicokinetics, metabolism and distribution:

Non-human toxicological data: Not available

### Information on toxicological effects:

#### Acute toxicity:

**2-ethylhexyl10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia- 4-stannatetradecanoate(CAS#57583-35-4)**

LD50(Oral, Rat): 1150 mg/kg bw

LD50(Dermal, Rabbit): > 1050 mg/kg bw

LC50(Inhalation, Rat): Not available

**2-ethylhexyl10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-methyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (CAS#57583-34-3)**

LD50(Oral, Rat): 880 mg/kg bw

LD50(Dermal, Rabbit): 2150 mg/kg bw(male)

LC50(Inhalation, Rat): 240 mg/L 1h

Skin corrosion/Irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Suspected of damaging fertility or the unborn child .

STOT- single exposure: Not classified

STOT-repeated exposure: Causes damage to organs (nervous system, immune system).

Aspiration hazard: Not classified

## 12. Ecological Information

### Toxicity:

**2-ethylhexyl10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia- 4-stannatetradecanoate(CAS#57583-35-4)**

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	> 1000 mg/L	96h	Fish	OECD 203	N/A	N/A
EC50	32 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	270 mg/L	72h	Algae	OECD 201	N/A	N/A

**2-ethylhexyl10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-methyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (CAS#57583-34-3)**

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	> 6 mg/L	96h	Fish	OECD 203	N/A	N/A
EC50	N/A	48h	Daphnia	OECD 202	N/A	N/A
EC50	> 1.8 mg/L	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability: Not available.

Bioaccumulative potential: Not available.

Mobility in soil: Not available.

Results of PBT&vPvB assessment: Not available.

Other adverse effects: No known significant effects or critical hazards.

## 13. Disposal Considerations

Material name: Methyl tin Mercaptide

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**Disposal instructions**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Contaminated packaging**

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

**14. Transport Information****DOT****Basic shipping requirements:**

<b>UN number</b>	Not regulated
<b>Proper shipping name</b>	Not regulated
<b>Hazard class</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>Environmental hazards</b>	No

**IATA**

<b>UN number</b>	Not regulated
<b>UN proper shipping name</b>	Not regulated
<b>Transport hazard class(es)</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>Environmental hazards</b>	No

**IMDG**

<b>UN number</b>	Not regulated
<b>UN proper shipping name</b>	Not regulated
<b>Transport hazard class(es)</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>Environmental hazards</b>	No

**15. Regulatory Information****Safety, health and environmental regulations / legislation specific for the substance or mixture**

<b>2-ethylhexyl10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (57583-35-4) is found on the following regulatory lists</b>	"US - Hawaii Air Contaminant Limits", "US - Idaho - Limits for Air Contaminants", "US - Alaska Limits for Air Contaminants", "US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants", "US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory",
<b>2-ethylhexyl10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-methyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (57583-34-3) is found on the following regulatory lists</b>	"US - Hawaii Air Contaminant Limits", "US - Idaho - Limits for Air Contaminants", "US - Alaska Limits for Air Contaminants", "US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants", "US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory",

**16. Other Information****HMIS® ratings**

Health: 2  
Flammability: 1

**NFPA ratings**

Physical hazard: 0

Health: 2

Flammability: 1

Instability: 0

**Disclaimer**

The information in the sheet was written based on the best knowledge and experience currently available.

**Issue date**

05-14-2015