

SAFETY DATA SHEET

Issue Date 19-Nov-2013 Revision Date 07-Nov-2016 Version 5

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name THERMOLITE® 892 WF STABILIZER

Other means of identification

SDS Code CA_ROD

Synonyms Monooctyltin 2-Ethylhexylmercaptoacetate, (dioctyltin bis (2-ethylhexyl mercaptoacetate)

Recommended use of the chemical and restrictions on use

Recommended Use Stabilizer.
Uses advised against Consumer use

SU22 - Professional uses: Public domain (administration, education, entertainment,

services, craftsmen) Plastic products: Toys

Biocidal Products (e.g. disinfectants, pest control)

Note REACH - Annex XVII #20

Details of the supplier of the safety data sheet

Supplier Address PMC Organometallix Inc. 2316 Highland Ave Carrollton, KY 41008

Emergency telephone number

Company Phone Number PMC Organometallix Customer Service: 1-855-638-2549; 1-856-638-2156

24 Hour Emergency Phone Number Chemtrec 1-800-424-9300 Chemtrec [INT]: +1-703-527-3887

Emergency Telephone Chemtrec: 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Skin sensitization	Category 1B
Specific target organ toxicity (repeated exposure)	Category 1

Label elements

Emergency Overview

DANGER

Hazard statements

Harmful if swallowed

May cause an allergic skin reaction

Causes damage to organs through prolonged or repeated exposure



Appearance No information available Physical state liquid Odor characteristic

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

Specific treatment (see on this label)

Get medical advice/attention if you feel unwell

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Other Information

Toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

Unknown Acute Toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms Monooctyltin 2-Ethylhexylmercaptoacetate, (dioctyltin bis (2-ethylhexyl mercaptoacetate).

Chemical Family Organotin compounds.

Chemical nature Organic compounds. Tin organic compounds.

Chemical Name	CAS No	Weight-%	Trade Secret
Octyltin tris(2-ethylhexyl mercaptoacetate)	27107-89-7	60-70	*
Dioctyltin bis(2-ethylhexyl mercaptoacetate)	15571-58-1	30-40	*
Dioctyltin mercaptoacetate	15535-79-2	<2	*
2-Ethylhexyl mercaptoacetate	7659-86-1	<2	*

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

General advice Immediate medical attention is required. If symptoms persist, call a physician.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a physician

immediately. If symptoms persist, call a physician.

Skin ContactWash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Immediate medical attention is required. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash off immediately with soap and plenty of water. Immediate medical attention

is not required.

Inhalation Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth

resuscitation. Immediate medical attention is required. If not breathing, give artificial respiration. Immediate medical attention is not required. Move to fresh air in case of

accidental inhalation of vapors. If symptoms persist, call a physician.

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Ingestion Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an

unconscious person. Call a physician or poison control center immediately. Clean mouth

with water and drink afterwards plenty of water. Call a physician.

Self-protection of the first aider

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other

proper respiratory medical device.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians May cause sensitization of susceptible persons. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Do not allow run-off from fire-fighting to enter drains or water courses. Runoff may pollute waterways.

Hazardous combustion products Hazardous metal fumes and oxides. Carbon oxides. Oxides of sulfur. Hydrocarbons.

Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

spill/leak. Evacuate personnel to safe areas.

Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do

not flush into surface water or sanitary sewer system. See section 12 for additional ecological information. The product is insoluble and floats on water. Do not allow into any

sewer, on the ground or into any body of water.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or

tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up Cover liquid spill with sand, earth or other non-combustible absorbent material. Use

personal protective equipment as required. Dam up. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Soak up with

inert absorbent material. Pick up and transfer to properly labeled containers.

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7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not

eat, drink or smoke when using this product. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Use with local exhaust

ventilation.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly

labeled containers. Protect from direct sunlight.

Incompatible materials Incompatible with oxidizing agents, Acids, Bases, Strong reducing agents, Incompatible

with strong acids and bases, Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines Exposure limits are listed below, if they exist.

	Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	PMC OEL
Ī	Octyltin tris(2-ethylhexyl	STEL: 0.2 mg/m ³ Sn	TWA: 0.1 mg/m ³ Sn	IDLH: 25 mg/m ³ Sn	-
	mercaptoacetate)	TWA: 0.1 mg/m ³ Sn	(vacated) TWA: 0.1 mg/m ³	TWA: 0.1 mg/m ³ except	
	27107-89-7	S*	Sn	Cyhexatin Sn	
			(vacated) S*	-	
Ī	Dioctyltin bis(2-ethylhexyl	STEL: 0.2 mg/m ³ Sn	TWA: 0.1 mg/m ³ Sn	IDLH: 25 mg/m ³ Sn	-
	mercaptoacetate)	TWA: 0.1 mg/m ³ Sn	(vacated) TWA: 0.1 mg/m ³	TWA: 0.1 mg/m³ except	
	15571-58-1	S*	Sn	Cyhexatin Sn	
			(vacated) S*	,	
Ī	Dioctyltin mercaptoacetate	STEL: 0.2 mg/m ³ Sn	TWA: 0.1 mg/m ³ Sn	IDLH: 25 mg/m ³ Sn	=
	15535-79-2	TWA: 0.1 mg/m ³ Sn	(vacated) TWA: 0.1 mg/m ³	TWA: 0.1 mg/m³ except	
		S*	Sn	Cyhexatin Sn	
- 1			(vacated) S*		

Legend

S* - Skin Absorber

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Appropriate engineering controls

Engineering Controls Showers, Eyewash stations, Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles. Face protection shield.

Skin and body protection Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene Considerations When using do not eat, drink or smoke. Regular cleaning of equipment, work area and

clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly

after handling. Keep away from food, drink and animal feeding stuffs.

characteristic

No information available

9. PHYSICAL AND CHEMICAL PROPERTIES

Odor

Odor threshold

Decomposes

Remarks • Method

(based on components) CC (closed cup)

Information on basic physical and chemical properties

Physical state liquid

Appearance No information available

Color yellow to amber

Property
DH Values
No information available

pH Melting point / freezing point Boiling point / boiling range

Boiling point / boiling range > 200 °C / 392 °F

Flash point > 124 °C / > 255 °F

Evaporation rate No information available

Flammability (solid, gas) No information available

< 0 °C / 32 °F

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure

No information available
No information available
1.0 × 10(-8) kPa

Vapor density No information available

Specific Gravity 1.100

Water solubility Insoluble in water

Solubility in other solvents No information available Partition coefficient No information available **Autoignition temperature** No information available **Decomposition temperature** No information available No information available Kinematic viscosity **Dynamic viscosity** No information available **Explosive properties** No information available **Oxidizing properties** No information available

Other Information

Softening point No information available Molecular weight No information available

VOC Content (%) 0

DensityNo information availableBulk densityNo information availableSolubility(ies)Heptane isomers

10. STABILITY AND REACTIVITY

Reactivity

No known effects under normal use conditions.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Extremes of temperature and direct sunlight. Exposure to air or moisture over prolonged periods.

Incompatible materials

Incompatible with oxidizing agents, Acids, Bases, Strong reducing agents, Incompatible with strong acids and bases, Strong oxidizing agents.

Hazardous Decomposition Products

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Hazardous metal fumes and oxides, Carbon oxides, Oxides of sulfur, Hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation Inhalation of vapors in high concentration may cause irritation of respiratory system.

Eye contact Irritating to eyes.

Skin Contact Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

May cause sensitization by skin contact. May cause skin irritation and/or dermatitis.

Ingestion Reacts with gastric acid to form organotin chlorides.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Octyltin tris(2-ethylhexyl mercaptoacetate)	= 3400 mg/kg (Rat)	> 2000 mg/kg (Rat)	
Dioctyltin bis(2-ethylhexyl mercaptoacetate)	> 2010 mg/kg (Mice) 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	
Dioctyltin mercaptoacetate	= 943 mg/kg (Rat)		

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization May cause sensitization by skin contact. Repeated or prolonged skin contact may cause

allergic reactions with susceptible persons.

Germ cell mutagenicity No information available.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

IARC or NTP.

Reproductive toxicity Product is or contains a chemical which is a known or suspected reproductive hazard.

STOT - single exposure No information available

STOT - repeated exposure Thymus.

Chronic toxicity Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated

exposure. May cause adverse effects on the bone marrow and blood-forming system. May

cause adverse liver effects.

Target Organ Effects Thymus, blood, Central nervous system, Eyes, kidney, liver, Respiratory system, Skin,

Urinary Tract.

Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 1059 mg/kg ATEmix (dermal) 5714 mg/kg

12. ECOLOGICAL INFORMATION

This product contains a chemical which is listed as a severe marine pollutant according to DOT.

Ecotoxicity

Very toxic to aquatic life, Very toxic to aquatic life with long lasting effects, Toxic to aquatic life with long lasting effects.

1 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

1 70 of the mixture consists of compensation of a minute minute to the advance of the annual management.				
Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	

Octyltin tris(2-ethylhexyl mercaptoacetate) 27107-89-7	= 0.71: 72 h Desmodesmus subspicatus mg/L EC50 > 0.0088: 72 h Pseudokirchneriella subcapitata mg/L EC0	= 73: 96 h Brachydanio rerio mg/L LC50 semi-static > 0.945: 96 h Cyprinus carpio mg/L	> 100 mg/l	= 1: 48 h Daphnia magna mg/L EC50 = 0.023 - 0.039: 48 h Daphnia magna mg/L EC50 = 0.228: 21 d Daphnia magna mg/L EC50
				= 0.036: 21 d Daphnia magna mg/L NOEC
Dioctyltin bis(2-ethylhexyl mercaptoacetate) 15571-58-1	= 0.17: 72 h Desmodesmus subspicatus mg/L EC50	= 93.2: 96 h Brachydanio rerio mg/L LC50 semi-static = 24.8: 96 h Danio rerio	> 100 mg/l	= 0.17 - 0.18: 48 h Daphnia magna mg/L EC50 > 3.2: 21 d Daphnia magna
		mg/L LC50		mg/L EC50
2-Ethylhexyl mercaptoacetate 7659-86-1	0.41: 72 h Pseudokirchneriella subcapitata mg/L EC50 (biomass) 0.91: 72 h Pseudokirchneriella subcapitata mg/L EC50 (growth rate)	0.23 mg/l 96 h (Oncorhynchus mykiss (rainbow trout)) 9: 48 h Leuciscus idus mg/L LC50 4.4: 96 h Pimephales promelas mg/L LC50	= 2.7 mg/l	0.38: 48 h (Daphnia magna (Water flea))mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	Partition coefficient
2-Ethylhexyl mercaptoacetate	4.7
7659-86-1	

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Do not reuse container. Disposal should be in accordance with applicable regional, national

and local laws and regulations.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Octyltin tris(2-ethylhexyl mercaptoacetate)	Toxic
27107-89-7	
Dioctyltin bis(2-ethylhexyl mercaptoacetate)	Toxic
15571-58-1	
Dioctyltin mercaptoacetate	Toxic
15535-79-2	

14. TRANSPORT INFORMATION

DOT Not regulated

Marine pollutant This product contains a chemical which is listed as a severe marine pollutant according to

DOT.

IATA Regulated. 450 L Limit Per Package.

UN/ID No. 3082

Proper shipping name Environmentally Hazardous Substance, Liquid, N.O.S.

Hazard Class 9
Packing Group III

Marine Pollutant This material meets the definition of a marine pollutant

Description (Dioctyltin bis (2-ethylhexyl mercaptoacetate), Octyltin tris (2-ethylhexyl mercaptoacetate))

IMDG Regulated UN/ID No. 3082

Proper shipping name Environmentally Hazardous Substance, Liquid, N.O.S.

Hazard Class 9
Packing Group III

Marine pollutant This material meets the definition of a marine pollutant

Description (Dioctyltin bis (2-ethylhexyl mercaptoacetate), Octyltin tris (2-ethylhexyl mercaptoacetate))

15. REGULATORY INFORMATION

All of the components in the product are on the following Inventory lists

The classification and labeling information in this Safety Data Sheet should be viewed as provisional.

International Inventories

EINECS/ELINCS Complies or Exempt

TSCA Complies **AICS** Complies **DSL/NDSL** Complies Complies **ENCS** Complies **KECL** Complies **PICCS** Complies **IECSC NZIoC** Complies **TCSI** Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances **IECSC** - China Inventory of Existing Chemical Substances **KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances
NZIOC - New Zealand Inventory of Chemicals

TCSI - Taiwan Chemical Substance Inventory

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). Any Substance regulated Title 40 of the Code of Federal Regulations, Part 372 is listed below, if it exists.

SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard Yes
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

CWA (Clean Water Act)

Any Substance regulated as a pollutant pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42) is listed below, if it exists.

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CERCLA

Any Substance regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) is listed below, if it exists.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

16. OTHER INFORMATION

NFPA Health hazards 2 Flammability 1 Instability 0 Physical and Chemical

Properties -

HMIS Health hazards 2* Flammability 1 Physical hazards 0 Personal protection X

Chronic Hazard Star Legend *= Chronic Health Hazard

Prepared By PMC Group Issue Date 19-Nov-2013 Revision Date 07-Nov-2016

Revision Note

(M)SDS sections updated 2

This material safety data sheet complies with the requirements of 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet