

# SAFETY DATA SHEET

Issue Date 10-Oct-2013 Revision Date 19-Aug-2015 Version 7

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

Product identifier

Product Name THERMOLITE® 190 STABILIZER

Other means of identification

SDS Code CA\_RSO
Document CA\_RSO
Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Stabilizer.
Uses advised against Consumer use

Details of the supplier of the safety data sheet

Supplier Address

PMC Group Inc. 1288 Route 73 South

Mount Laurel, New Jersey 08054

USA

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 Emergency Telephone CHEMTREC: 1-800-424-9300 Chemtrec [INT]: +1-703-527-3887

# 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
Acute toxicity - Dermal	Category 4
Skin sensitization	Category 1A
Germ cell mutagenicity	Category 2
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2

#### Label elements

# **Emergency Overview**

### Warning

### Hazard statements

Harmful if swallowed

Harmful in contact with skin

May cause an allergic skin reaction

Suspected of causing genetic defects

Suspected of damaging fertility or the unborn child

May cause respiratory irritation. May cause drowsiness or dizziness May cause damage to organs through prolonged or repeated exposure



Appearance clear Physical state liquid Odor Slight Sulphurous

### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

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

Use only outdoors or in a well-ventilated area

### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/physician if you feel unwell. Wash

contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

#### **Precautionary Statements - Storage**

Store locked up. Store in a well-ventilated place. Keep container tightly closed.

# **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. Toxic to aquatic life.

Unknown Acute Toxicity 0.229% of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical FamilyOrganotin compounds.Chemical natureTin organic compounds.

Chemical Name	CAS No	Weight-%	Trade Secret
Organotin Mercaptide	Proprietary	71-76	*
Alkyl tin mercaptide	Proprietary	22-27	*
Mercaptan	Proprietary	1-3	*

<sup>\*</sup> The exact percentage (concentration) of composition has been withheld as a trade secret. If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

# 4. FIRST AID MEASURES

### First aid measures

General advice Immediate medical attention is required.

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.

**Skin Contact** Immediate medical attention is required. Wash off immediately with soap and plenty of

water while removing all contaminated clothes and shoes. Wash off immediately with soap and plenty of water. Remove contaminated clothing and shoes. Wash contaminated

clothing before reuse.

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.

**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.

Self-protection of the first aider

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

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.

### 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.

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

**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

Personal precautions Use personal protective equipment as required. Keep people away from and upwind of

spill/leak.

**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

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

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

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

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.

#### 7. HANDLING AND STORAGE

### Precautions for safe handling

Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or Advice on safe handling

clothing. Wash contaminated clothing before reuse. Use personal protective equipment as

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

#### 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/store only in original container. Packaging materials

Incompatible materials Acids, Strong oxidizing agents.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

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

L	Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	PMC OEL
Γ	Organotin Mercaptide	STEL: 0.2 mg/m <sup>3</sup> Sn	TWA: 0.1 mg/m <sup>3</sup> Sn	IDLH: 25 mg/m <sup>3</sup> Sn	-
1		TWA: 0.1 mg/m³ Sn	(vacated) TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m³ except	
		S*	Sn	Cyhexatin Sn	
1			(vacated) S*	-	
Γ	Alkyl tin mercaptide	STEL: 0.2 mg/m <sup>3</sup> Sn	TWA: 0.1 mg/m <sup>3</sup> Sn	IDLH: 25 mg/m <sup>3</sup> Sn	-
1		TWA: 0.1 mg/m³ Sn	(vacated) TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m³ except	
		S*	Sn	Cyhexatin Sn	
-			(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

Tight sealing safety goggles. Eye/face protection

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

as appropriate, to prevent skin contact.

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved Respiratory protection

> 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**

Avoid contact with skin, eyes or clothing. When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state liquid **Appearance** clear Color yellow

**Property** Values

рΗ No information available Melting point/freezing point -75 -- -65 °C / -103 -- -85 °F Boiling point / boiling range > 290 °C / 554 °F

150 °C / 302 °F Flash point **Evaporation rate** No information available Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit: No information available Lower flammability limit: No information available Vapor pressure <0.5 mmHg at 25°C (77°F) Vapor density No information available Specific Gravity No information available Water solubility Insoluble in water

Solubility in other solvents No information available

Partition coefficient 8.48

No information available **Autoignition temperature Decomposition temperature** No information available Kinematic viscosity No information available **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 (%)** No information available 1.17 - 1.18 g/cm<sup>3</sup> @ 20 °C Density **Bulk density** No information available

Solubility(ies) organic solvents

Slight Sulphurous Odor No information available Odor threshold

Remarks • Method

Not Applicable

@ 1013.25 Pa Decomposes Setaflash (based on components)

# 10. STABILITY AND REACTIVITY

### Reactivity

No information available.

## 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.

#### Incompatible materials

Acids, Strong oxidizing agents.

#### **Hazardous Decomposition Products**

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

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Product Information No data available.

**Inhalation** May cause irritation.

Eye contact Irritating to eyes.

Skin Contact Irritating to skin. Repeated or prolonged skin contact may cause allergic reactions with

susceptible persons. May cause sensitization by skin contact.

**Ingestion** Reacts with gastric acid to form organotin chlorides.

Chemical Name	Chemical Name Oral LD50 Dermal LD50		Inhalation LC50
Methyltin mercaptide	= 1150 - 1710 mg/kg (Rat)	> 1050 mg/kg (Rabbit)	
Methyltin mercaptide	= 880 - 1261 mg/kg (Rat)	= 1000 - 2150 mg/kg (Rabbit)	
Thio ester	303 - 334 mg/kg (Rat)	> 2000 mg/kg (Rat) OECD 402	0.51 mg/l (LC0, 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.

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
STOT - single exposure
STOT - repeated exposure
No information available
No information available.

**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 Central nervous system, Immune system, blood, 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) 1191 mg/kg ATEmix (dermal) 1071 mg/kg ATEmix (inhalation-vapor) 1324

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

0.229% of the mixture consists of components(s) of unknown hazards to the aquatic environment

microorganisms	Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
				microorganisms	

Organotin Mercaptide	270: 72 h Selenastrum capricornutum mg/L EC50 (growth rate) 120: 72 h Selenastrum capricornutum mg/L EC50 (biomass)	> 1000: 96 h Pimephales promelas mg/L LC50 static		32: 48 h Daphnia magna Straus mg/L EC50 =1.03: 21 d Daphnia magna mg/L EC50 = 1-10%: 21 d Daphnia magna NOEC
Alkyl tin mercaptide	> 1.8: 72 h Desmodesmo subspicatus mg/L EC50	> 6: 96 h Danio rerio mg/L LC50	> 1000 mg/l	= 2.9: 24 h Daphnia magna Straus mg/L EC50 = 0.31: 21 d Daphnia magna Straus mg/L EC50 = 0.13: 21 d Daphnia magna Straus mg/L NOEC
Mercaptan	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
Organotin Mercaptide	8.5
Alkyl tin mercaptide	11
Mercaptan	2.43

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
Organotin Mercaptide	Toxic
Alkyl tin mercaptide	Toxic

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

IATA Regulated. Not a recommended mode of transport. 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** (2-Ethylhexyl thioglycolate)

IMDG Regulated UN/ID No. 3082

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

Hazard Class 9
Packing Group III
EmS-No F-A, S-F

Marine pollutant This material meets the definition of a marine pollutant

**Description** (2-Ethylhexyl thioglycolate)

# 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 Complies **AICS DSL/NDSL** Complies Complies **ENCS** Does not comply **KECL PICCS** Complies **IECSC** Complies **NZIoC** Complies Complies **TCSI** 

# 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.

#### **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 10-Oct-2013 Revision Date 19-Aug-2015

**Revision Note** 

(M)SDS sections updated 1

#### **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**