

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

Product identifier

Product Name THERMOLITE® 176C STABILIZER

Other means of identification

SDS Code CA_RSF
Registration Number(s) ACCN# 273177

Recommended use of the chemical and restrictions on use

Recommended Use Stabilizer.
Uses advised against SU21 - Consumer uses: Private households (= general public = consumers)
 SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
 Biocidal Products (e.g. disinfectants, pest control)
 Plastic products: Toys
 Note REACH - Annex XVII #20

Details of the supplier of the safety data sheet

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

Emergency telephone number

Company Phone Number PMC Organometallics Customer Service: 1-855-638-2549; 1-856-638-2156
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
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1B

Label elements

Emergency Overview

Warning

Hazard statements
 Harmful if swallowed
 Causes skin irritation
 Causes serious eye irritation
 May cause an allergic skin reaction



Appearance viscous**Physical state** liquid**Odor** Slight characteristic**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling
 Do not eat, drink or smoke when using this product
 Wear protective gloves/protective clothing/eye protection/face protection
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Contaminated work clothing should not be allowed out of the workplace

Precautionary Statements - Response

Specific treatment (see on this label)
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
 IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice/attention.
 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**

May be harmful in contact with skin. Harmful to aquatic life with long lasting effects. Harmful to aquatic life.
 Unknown Acute Toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS**Chemical Family**

Organotin compounds.

Chemical nature

Tin organic compounds, Preparation.

Chemical Name	CAS No	Weight-%	Trade Secret
Mixed butyltin mercaptoester sulfides	Proprietary	40-55	*
***Mineral Oil from various sources	VARIOUS	<50	**
2-Mercaptoethyl fatty acid	Proprietary	20-40	*

*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. **CAS No.'s :64742-65-0, 64742-56-9, 64742-55-8, 72623-86-0.

4. FIRST AID MEASURES**First aid measures****General advice**

Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. 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. If symptoms persist, call a physician.

Skin Contact

Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Inhalation

Remove to fresh air. Call a physician. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

Ingestion

Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce

vomiting.

Self-protection of the first aider Use personal protective equipment as required. 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 For inhalation exposure consider treatment for hydrogen sulfide (H₂S) exposure.

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

Runoff may pollute waterways.

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 Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required.

Environmental precautions

Environmental precautions Prevent entry into waterways, sewers, basements or confined areas. 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. Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for cleaning up Cover liquid spill with sand, earth or other non-combustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. In case of insufficient ventilation, wear

suitable respiratory equipment. Hydrogen sulfide (H₂S), a decomposition by-product of this material, may be present in the headspace of the container. Wash thoroughly after handling.

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. Protect from direct sunlight.

Incompatible materials Contact with acids may release hydrogen sulfide, a toxic and flammable gas that may form explosive mixtures in air, Incompatible with strong acids and bases, Strong oxidizing agents, Strong reducing agents, Incompatible with oxidizing agents, Bases, Acids.

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
Mixed butyltin mercaptoester sulfides	STEL: 0.2 mg/m ³ Sn TWA: 0.1 mg/m ³ Sn S*	TWA: 0.1 mg/m ³ Sn (vacated) TWA: 0.1 mg/m ³ Sn (vacated) S*	-	TWA: 0.07 mg/m ³ Sn (12 hour)
***Mineral Oil from various sources VARIOUS	TWA: 5 mg/m ³ (oil mist)	TWA: 5 mg/m ³ (oil mist)	-	-

Legend

S* - Skin Absorber

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.

Skin and body protection Wear protective gloves and protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved 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. Avoid breathing (dust, vapor, mist, gas). Wash face, hands and any exposed skin thoroughly after handling. Use personal protective equipment as required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	liquid	Odor	Slight characteristic
Appearance	viscous	Odor threshold	No information available
Color	colorless to light yellow		
Property	Values	Remarks • Method	
pH	Not applicable		
Melting point / freezing point	0 °C / 32 °F		
Boiling point / boiling range	> 128 °C / 262 °F	Decomposes	
Flash point	100-104 °C / 212-219.2 °F	Pensky-Martens Closed Cup (PMCC)	
Evaporation rate	No information available	Slight	
Flammability (solid, gas)	No information available		
Flammability Limit in Air			

Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	negligible
Vapor density	No information available	
Specific Gravity	0.989671 @ 25 °C	
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	
Kinematic viscosity	29.44 cSt @ 40°C	
Dynamic viscosity	No information available	
Explosive properties	Not an explosive	
Oxidizing properties	Not applicable	

Other Information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	No information available

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.

Incompatible materials

Contact with acids may release hydrogen sulfide, a toxic and flammable gas that may form explosive mixtures in air, Incompatible with strong acids and bases, Strong oxidizing agents, Strong reducing agents, Incompatible with oxidizing agents, Bases, Acids.

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**

Inhalation	Irritating to respiratory system.
Eye contact	Irritating to eyes.
Skin Contact	Irritating to skin. Prolonged skin contact may defat the skin and produce dermatitis. May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Ingestion

Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis. Reacts with gastric acid to form organotin chlorides.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Mixed butyltin mercaptoester sulfides	>1000 mg/kg bw (mice) >2000 mg/kg bw (rat)	> 2000 mg/kg (Rat)	
***Mineral Oil from various sources	>5000 mg/kg	>2000 mg/kg	
2-Mercaptoethyl fatty acid	= 800 - 1200 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	>5.1 mg/l (aerosol) LC0 1h (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**

Repeated or prolonged contact may cause allergic reactions in very susceptible persons. May cause allergic skin reaction.

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

No information available.

STOT - single exposure

No information available

STOT - repeated exposure

No information available

Aspiration hazard

Aspiration may cause pulmonary edema and pneumonitis. Risk of serious damage to the lungs (by aspiration).

Numerical measures of toxicity - Product Information

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

ATEmix (oral) 1782 mg/kg

ATEmix (dermal) 2001 mg/kg

ATEmix (inhalation-dust/mist) 16.6 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life, Harmful to aquatic life with long lasting effects.

79 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
2-Mercaptoethyl fatty acid	= 18.6: 72 h Demodermus subspicatus mg/L EC50 = 854: 72 h Demodermus subspicatus mg/L EC50	= 37: 96 h Leucidus idus mg/L LC50 > 1000: 96 h Pimephales mg/L LC50		= 0.9 - 1.5: 48 h Daphnia magna mg/L EC50 > 1000: 48 h Daphnia magna mg/L EC50

Persistence and degradability

NOT READILY BIODEGRADABLE.

Bioaccumulation

No information available.

Chemical Name	Partition coefficient
2-Mercaptoethyl fatty acid	8.45

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes	Do not release this product, or any waste stream from manufacturing, processing, and use containing this product, into the waters of the United States that would result in surface water concentrations exceeding 0.5 parts per billion (ppb) cumulative concentration. 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.

14. TRANSPORT INFORMATION

DOT	Not regulated
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	(mercaptans)
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	(mercaptans)

15. REGULATORY INFORMATION

SIGNIFICANT NEW USE RULE (SNUR)

This product contains a chemical which is subject to a Significant New Use Rule (SNUR) 40 CFR 721.63 (a)(1), (a)(2)(i) to (iv), (a)(3), (b) (concentration set at 1.0%), and (c); 721.72 (a) through (e) (concentration set at 1.0%), (f), (g)(1)(i)-(v) and (viii)-(ix), (g)(2)(i)-(iii) and (v), (g)(3)(i)-(ii), (g)(4)(i), (g)(5); 721.80 (j); and 721.90(a)(4), (b)(4), and (c)(4) (N=0.5).

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

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 Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
***Mineral Oil from various sources VARIOUS	X		X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

<u>NFPA</u>	Health hazards 1	Flammability 1	Instability 0	Physical and Chemical Properties -
<u>HMIS</u>	Health hazards 1*	Flammability 1	Physical hazards 0	Personal protection X
<i>Chronic Hazard Star Legend</i>	* = Chronic Health Hazard			

Prepared By	PMC Group
Issue Date	04-Jun-2014
Revision Date	30-Aug-2018
Revision Note	

No information available

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