Safety Data Sheet



Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

• **ATI® T**

Synonyms

Product Name

- ATI[®] Thermoplastic sheet, PVC/PMMA alloy

1.2 Relevant identified uses of the substance or mixture and uses advised against

- Relevant identified use(s)
 - Thermoforming

1.3 Details of the supplier of the safety data sheet

- Manufacturer
 - SEKISUI Polymer Innovations, LLC 6685 Low Street Bloomsburg, PA 17815 United States www.sekisui-spi.com info@sekisui-spi.com Telephone (General) • 570-387-6997

1.4 Emergency telephone number

Manufacturer	• (570) 387-6997 - Company Emergency Telephone
Manufacturer	• 1-800-424-9300 - CHEMTREC

Section 2: Hazards Identification

EU/EEC

According to Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010] According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

CLP

 This material is an article. This material is not expected to pose any hazards under normal conditions of use. Hazards represented on this document are due to potential dusts/vapors generated during use. Specific Target Organ Toxicity Repeated Exposure 2 - H373

DSD/DPD

- Harmful (Xn) R48/20
- 2.2 Label Elements

CLP



Hazard statements • H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

- Prevention P260 Do not breathe dust.
- Response P314 Get medical advice/attention if you feel unwell.
- **Storage/Disposal** P501 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

DSD/DPD



Risk phrases • R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation.

2.3 Other Hazards

CLP	 According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.
DSD/DPD	According to European Directive 1999/45/EC this material is considered dangerous

United States (US) According to OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012

- This material is an article. This material is not expected to pose any hazards under normal conditions of use. Hazards represented on this document are due to potential dusts/vapors generated during use. Specific Target Organ Toxicity Repeated Exposure 2 - H373 Combustible Dust
- 2.2 Label elements **OSHA HCS 2012**

WARNING



Hazard statements • May cause damage to organs - Lungs through prolonged or repeated exposure - H373

Precautionary statements

Prevention	Do not breathe dust P260
Response •	Get medical advice/attention if you feel unwell P314
Storage/Disposal •	Dispose of content and/or container in accordance with local, regional, national, and/or international regulations P501
2.3 Other hazards	
OSHA HCS 2012 •	Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada

According to WHMIS

2.1 Classification of the substance or mixture

WHMIS

This material is an article. This material is not expected to pose any hazards under normal conditions of use. Hazards represented on this document are due to potential dusts/vapors generated during use. Other Toxic Effects - D2B

2.2 Label elements WHMIS



• Other Toxic Effects - D2B

2.3 Other hazards WHMIS

• In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients

3.1 Substances

 Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

3.2 Mixtures

Composition						
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments	
Polyvinyl Chloride	CAS :9002- 86-2	60% TO 100%	NDA	EU DSD/DPD: Self Classified: Xn R48/20 EU CLP: Self Classified: STOT RE 2, H373 OSHA HCS 2012: STOT RE 2 (Lungs); Comb. Dust	NDA	
Acrylic Polymers	NDA	10% TO 30%	NDA	EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Comb. Dust	NDA	
Organic Waxes	NDA	1% TO 5%	NDA	EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified	NDA	
8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2- ethylhexyl ester	CAS: 57583- 35-4 EINECS: 260- 829-0	0.6% TO 4%	NDA	EU DSD/DPD: Repr. Cat. 3 R63 T R48/25 Xn R22 R43 EU CLP: Self Classified: Repr. 2 , H361d; Acute Tox. 4, H302; STOT RE 1 (Nervous system, Immune system), H372; Skin Sens. 1A, H317 OSHA HCS 2012: Skin Irrit. 2; Eye Irrit. 2B; Skin Sens. 1B; STOT RE 1 (CNS, Liver, Kidney)	NDA	
Stannane, methyltris(2- ethylhexyloxycarbonylmethylthio)-	CAS:57583- 34-3 EINECS:260- 828-5	0.2% TO 2%	Ingestion/Oral- Rat LD50 • 920 mg/kg	EU DSD/DPD: Self Classified: Repr. Cat. 3 R63 EU CLP: Self Classified: Repr. 2, H361d OSHA HCS 2012: Acute Tox 4 (oral); Skin Irrit. 2; STOT RE 1 (CNS,	NDA	

Liver, Kidney) See Section 16 for full text of H-statements and R-phrases. Section 4 - First Aid Measures

4.1 Description of first aid measures

nhalation	
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• If irritation occurs from dust or vapors from excessive heating, Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

Skin

 Cool skin rapidly with cold water after contact with hot polymer. Wash skin with soap and water. Get medical attention if symptoms occur.

If irritation occurs from dust or vapors from excessive heating, Flush eyes with water for at least 15 minutes. If eye irritation persists: Get medical advice/attention.

Eye

Ingestion

• Not a likely route of exposure.

4.2 Most important symptoms and effects, both acute and delayed

• Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to Physician
- Immediate medical attention after exposure to this material not expected to be necessary. No special treatment indicated related to exposure to this material.

5.1 Extinguishing media

······································						
Suitable Extinguishing Media	 Water, carbon dioxide, dry chemical or foam. 					
Unsuitable Extinguishing Media	None known.					
5.2 Special hazards arisir	ng from the substance or mixture					
Unusual Fire and Explosion Hazards	• Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Polyvinyl chloride-based material will NOT continue to burn after ignition without an external heat source. When burning, or at temperatures above 425°F, slow evolution of hydrogen chloride could occur.					
Hazardous Combustion Products	 Hydrogen chloride, carbon monoxide, carbon dioxide. 					
5.3 Advice for firefighters						

• Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions
 No special precautions expected to be necessary if material is used under ordinary conditions and as recommended. ATI® Thermoplastic sheets will not spill or leak; it is solid; however, dust from machining the product may leak or spill. Wear appropriate personal protective equipment if processing dust is leaked or spilled.
 Contain spill and monitor for excessive dust accumulation. Avoid unnecessary personnel and equipment traffic in the spill area.

6.2 Environmental precautions

• No special environmental precautions necessary.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures	 If dust or powder from cutting and machining the plastic sheet is spilled, vacuum or sweep up and place in containers for recovery or disposal. Avoid generating dust. Use clean nonsparking tools to collect material. Dust Deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.

6.4 Reference to other sections

 Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling

• Use good safety and industrial hygiene practices. Do not use in areas without adequate ventilation. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Take proper care when moving, loading, or unloading. Electrostatic charge may build up during handling; grounding of equipment is recommended. Wear appropriate personal protective equipment when machining this product. Avoid inhalation of dust.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Store in a dry area below 100°F (37.7°C)
- 7.3 Specific end use(s)
- Refer to Section 1.2 Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits/Guidelines							
	Result	ACGIH	Australia	Canada Ontario	Canada Quebec	China	
Stannana mathultria	STELs	0.2 mg/m3 STEL (as Sn)	0.2 mg/m3 STEL (as Sn)	0.2 mg/m3 STEL (as Sn)	0.2 mg/m3 STEV (as Sn)	Not established	
(2-		as Tin organic compounds	as Tin organic compounds	as Tin organic compounds	as Tin organic compounds		
- as Tin organic compounds	TWAs	0.1 mg/m3 TWA (as Sn)	0.1 mg/m3 TWA (as Sn)	0.1 mg/m3 TWA (as Sn)	0.1 mg/m3 TWAEV (as Sn)	Not established	
		as Tin organic compounds	as Tin organic compounds	as Tin organic compounds	as Tin organic compounds		
8-Oxa-3,5-dithia-4-	STELs	0.2 mg/m3 STEL (as Sn)	0.2 mg/m3 STEL (as Sn)	0.2 mg/m3 STEL (as Sn)	0.2 mg/m3 STEV (as Sn)	Not established	
stannatetradecanoic acid, 10-ethyl-4,4- dimethyl-7-0yo- 2-		as Tin organic compounds	as Tin organic compounds	as Tin organic compounds	as Tin organic compounds		
ethylhexyl ester as Tin organic compounds	TWAs	0.1 mg/m3 TWA (as Sn)	0.1 mg/m3 TWA (as Sn)	0.1 mg/m3 TWA (as Sn)	0.1 mg/m3 TWAEV (as Sn)	Not established	
		as Tin organic	as Tin organic	as Tin organic	as Tin organic		

		compounds	compounds	compounds	compounds	I		
Polywinyd Chlorido	STELs	Not established	Not established	Not established	Not established	10 mg/m3 STEL (total dust)		
(9002-86-2)	TWAs	1 mg/m3 TWA (respirable Not established fraction)		1 mg/m3 TWA (respirable)	Not established	5 mg/m3 TWA (total dust)		
	Exposure Limits/Guidelines (Con't.)							
	Result	France	Germany DFG	Hong Kong	Ireland	Japan		
	STELs	0.2 mg/m3 STEL [VLCT] (as Sn)	Not established	0.2 mg/m3 STEL (as Sn)	0.2 mg/m3 STEL (as Sn)	Not established		
		compounds		compounds	compounds			
	TWAs	0.1 mg/m3 TWA [VME] (as Sn)	Not established	Not established	0.1 mg/m3 TWA (as Sn)	Not established		
Stannane, methyltris (2-		as Tin organic compounds			as Tin organic compounds			
ethylhexyloxycarbonylmethylthio) - as Tin organic compounds	Ceilings	Not established	0.2 mg/m3 Peak (inhalable fraction, as Sn)	Not established	Not established	Not established		
			as Tin organic compounds					
	MAKs	Not established	0.1 mg/m3 TWA MAK (inhalable fraction, as Sn)	Not established	Not established	Not established		
			as Tin organic compounds					
	STELS	0.2 mg/m3 STEL 0 [VLCT] (as Sn) (a Not established		0.2 mg/m3 STEL (as Sn)	0.2 mg/m3 STEL (as Sn)	Not established		
	STELS	as Tin organic compounds		as Tin organic compounds	as Tin organic compounds	Not established		
	TWAs	0.1 mg/m3 TWA [VME] (as Sn)	Not established	Not established	0.1 mg/m3 TWA (as Sn)	Not optablished		
8-Oxa-3,5-dithia-4- stannatetradecanoic acid, 10-ethyl-4,4- dimethyl-7-oxo-, 2- ethylhexyl ester as Tin organic compounds		as Tin organic compounds			as Tin organic compounds			
	Ceilings	Not established	0.2 mg/m3 Peak (inhalable fraction, as Sn) as Tin organic compounds	Not established	Not established	Not established		
	MAKs	Not established	0.1 mg/m3 TWA MAK (inhalable fraction, as Sn) as Tin organic	Not established	Not established	Not established		
	<u> </u>		compounds					

Polyvinyl Chloride (9002-86-2)	TWAs	Not established Not established		lished	Not established		10 mg/m3 TWA (total inhalable dust); 1 mg/m3 TWA (respirable dust)	4 mg/m3 OEL (Class 2 Dust, total dust); 1 mg/m3 OEL (Class 2 Dust, respirable dust)	
MAKs Not established MAK (respi fraction)		3 TWA pirable	TWA birable Not established		Not established	Not established			
		Exposure L	imits/Gu	uidelines (Con't.)					
	Result	Mexico	NIO	SH	Ċ) SHA	Singapore	South Africa	
Stannane, methyltris (2-	STELs	0.2 mg/m3 STEL [LMPE-CT] (as Sn) as Tin organic compounds		Not established N		ablished	0.2 mg/m3 STEL (as Sn) as Tin organic compounds	0.2 mg/m3 STEL (except Cyhexatin, as Sn) as Tin organic compounds	
ethylhexyloxycarbonylmethylthio) - as Tin organic compounds	TWAs	0.1 mg/m3 TWA LMPE-PPT (as Sn)	0.1 mg/m3 (except Cyhexatir	3 TWA n, as Sn)	0.1 mg/m3 TWA (as Sn)		0.1 mg/m3 PEL (as Sn)	0.1 mg/m3 TWA (except Cyhexatin, as Sn)	
		as Tin organic compounds	as Tin org compoun	ganic ds	as Tin (compoi	organic unds	as Tin organic compounds	as Tin organic compounds	
8-Oxa-3,5-dithia-4- stannatetradecanoic acid, 10-ethyl-4,4-	STELs	0.2 mg/m3 STEL [LMPE-CT] (as Sn) as Tin organic compounds	Not established		Not established		0.2 mg/m3 STEL (as Sn) as Tin organic compounds	0.2 mg/m3 STEL (except Cyhexatin, as Sn) as Tin organic compounds	
dimethyl-7-oxo-, 2- ethylhexyl ester as Tin organic compounds	TWAs	0.1 mg/m3 TWA LMPE-PPT (as Sn)	0.1 mg/m3 TWA (except Cyhexatin, as Sn)		0.1 mg/m3 TWA (as Sn)		0.1 mg/m3 PEL (as Sn)	0.1 mg/m3 TWA (except Cyhexatin, as Sn)	
		as Tin organic compounds	as Tin organic compounds		as Tin organic compounds		as Tin organic compounds	as Tin organic compounds	
Polyvinyl Chloride (9002-86-2)	TWAs	Not established Not estab		tablished Not establi		ablished	Not established	10 mg/m3 TWA (total inhalable dust); 5 mg/m3 TWA (respirable dust)	
		Exposure L	.imits/Gu	uidelines	s (Con	't.)			
				Result		Sp	bain		
Stannane, methyltris (2-				STELS		0.2 mg/m3 EC] (as Sn) as Tin orga compound	STEL [VLA-) anic s		
ethylhexyloxycarbonylmethylthio) - as Tin organic compounds		TWAs			0.1 mg/m3 TWA [VLA- ED] (as Sn) as Tin organic				
8-Oxa-3,5-dithia-4- stannatetradecanoic				STELs		0.2 mg/m3 STEL [VLA- EC] (as Sn) as Tin organic			

acid, 10-ethyl-4,4-		compounds
ethylhexyl ester as Tin organic compounds	TWAs	0.1 mg/m3 TWA [VLA- ED] (as Sn) as Tin organic compounds

Exposure Control Notations

Australia

•8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester as Tin organic compounds: Skin: (skin notation)
 •Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- as Tin organic compounds: Skin: (skin notation)

Japan

•Polyvinyl Chloride (9002-86-2): Sensitizers: (Group 2 skin sensitizer (plasticizers, evaluation does not necessarily apply to all individuals within the group))

Mexico

•8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester as Tin organic compounds: **Carcinogens:** (A4 - Not classifiable as a human carcinogen) | **Skin:** (Skin - potential for cutaneous absorption)

•Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- as Tin organic compounds: **Carcinogens:** (A4 - Not classifiable as a human carcinogen) | **Skin:** (Skin - potential for cutaneous absorption)

South Africa

•8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester as Tin organic compounds: **Skin:** (Skin Notation (except Cyhexatin))

•Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- as Tin organic compounds: Skin: (Skin Notation (except Cyhexatin)) Canada Ontario

•8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester as Tin organic compounds: **Skin:** (Absorption through skin, eyes, or mucous membranes)

•Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- as Tin organic compounds: **Skin:** (Absorption through skin, eyes, or mucous membranes)

Canada Quebec

•8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester as Tin organic compounds: Skin: (Skin designation)

•Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- as Tin organic compounds: Skin: (Skin designation) Spain

•8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester as Tin organic compounds: Skin: (skin - potential for cutaneous exposure)

•Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- as Tin organic compounds: Skin: (skin - potential for cutaneous exposure) ACGIH

•Polyvinyl Chloride (9002-86-2): Carcinogens: (A4 - Not Classifiable as a Human Carcinogen)

•8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester as Tin organic compounds: **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen) | **Skin:** (Skin - potential significant contribution to overall exposure by the cutaneous route)

•Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- as Tin organic compounds: **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen) | **Skin**: (Skin - potential significant contribution to overall exposure by the cutaneous route)

Germany DFG

•Polyvinyl Chloride (9002-86-2): Pregnancy: (no risk to embryo/fetus if exposure limits adhered to)

•8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester as Tin organic compounds: **Pregnancy:** (classification not yet possible (calculated as Sn)) | **Skin:** (skin notation)

•Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- as Tin organic compounds: **Pregnancy:** (classification not yet possible (calculated as Sn)) | **Skin:** (skin notation)

Exposure Limits Supplemental

Ireland

•8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester as Tin Compounds: Under Consideration: (Under review (SCOEL))

•Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- as Tin Compounds: **Under Consideration:** (Under review (SCOEL)) **Spain**

•Polyvinyl Chloride (9002-86-2): Under Review: (1.5 mg/m3 VLA-ED; respirable fraction)

ACGIH

Polyvinyl Chloride (9002-86-2): TLV Basis - Critical Effects: (lower respiratory tract irritation; pneumoconiosis; pulmonary function)
 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester as Tin organic compounds: TLV Basis - Critical Effects: (eye and upper respiratory tract irritation; headache; nausea; CNS and immune effects)

•Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- as Tin organic compounds: TLV Basis - Critical Effects: (eye and upper respiratory tract irritation; headache; nausea; CNS and immune effects)

8.2 Exposure controls

Engineering Measures/Controls	 Ensure that and process into the wor that dust co systems inv explosion s appropriate 	t dust h sing eq rk area ontrol e rolved i upress ly class	andling systems (such as exhaust ducts, dust collectors, vessels uipment) are designed in a manner to prevent the escape of dust (i.e., there is not leakage from the equipment). It is recommended quipment such as local exhaust ventilation and material transport n handling of this product contain explosion relief vents or an ion system or an oxygen-deficient environment. Use only sified electrical equipment.
Personal Protective Equipme	ent		
Respiratory	 For limited purifying re- respirator re- respirator if 	exposu spirator egulatio exposi	re use an N95 dust mask. For prolonged exposure use an air- with high efficiency particulate air (HEPA) filters. Follow the OSHA ns found in 29 CFR 1910.134. Use a NIOSH/MSHA approved ure limits are exceeded or symptoms are experienced.
Eye/Face	 Wear safety 	y goggl	es.
Hands	 Wear approx 	priate g	gloves.
Skin/Body	 Wear long s 	sleeves	and/or protective coveralls.
General Industrial Hygiene Considerations	 Wash hand 	s befor	e eating.
Environmental Exposure Controls	 Follow best 	practio	e for site management and disposal of waste.
Key to abbreviations			
ACGIH = American Conference of Gove	ernmental	STEL	= Short Term Exposure Limits are based on 15-minute exposures
MSHA = Mine Safety and Health Admi	nistration	TLV	= Threshold Limit Value determined by the American Conference of Governmental Industrial Hygienists (ACGIH)
NIOSH = National Institute of Occupation	onal Safety	TWAE	V = Time-Weighted Average Exposure Value
OSHA = Occupational Safety and Hea	lth	TWA	= Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	Thermoplastic sheet in various colors with no odor.
Color	Various	Odor	Odorless
Odor Threshold	Data lacking		
General Properties		-	
Boiling Point	Not relevant	Melting Point	Material does not exhibit a melting point but softens over a wide temperature range
Decomposition Temperature	218 C(424.4 F)	рН	Not relevant
Specific Gravity/Relative Density	1.31 to 1.35 Water=1	Water Solubility	Negligible < 0.1 %
Viscosity	Data lacking	Explosive Properties	Data lacking

Oxidizing Properties:	Data lacking		
Volatility			
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
Flammability			
Flash Point	390 C(734 F)	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Data lacking		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

9.2 Other Information

• No additional physical and chemical parameters noted.

Section 10: Stability and	d Reactivity
0.1 Reactivity	
	 No dangerous reaction known under conditions of normal use.
0.2 Chemical stability	
	 Stable under normal temperatures and pressures.
0.3 Possibility of hazar	dous reactions

• Hazardous polymerization not indicated.

10.4 Conditions to avoid

• Avoid temperatures of 425°F and above.

10.5 Incompatible materials

 Polyvinyl chloride-based materials should not come in contact with acetal or acetal polymers in elevated temperature processing equipment. The two materials are not compatible and will react in violent decomposition when mixed under conditions of heat and pressure.

10.6 Hazardous decomposition products

• Carbon monoxide, carbon dioxide, hydrogen chloride.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

		Components
Polyvinyl Chloride (60% TO 100%)	9002- 86-2	Multi-dose Toxicity: Intratracheal-Rat TDLo • 50 mg/kg 3 Week(s)-Intermittent; Lungs, Thorax, or Respiration:Fibrosing alveolitis; Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels:Dehydrogenases; Tumorigen / Carcinogen: Ingestion/Oral-Rat TDLo • 210 g/kg 30 Week(s)-Continuous; Tumorigenic:Equivocal tumorigenic agent by RTECS criteria; Lungs, Thorax, or Respiration:Tumors; Skin and Appendages:Other:Tumors
Stannane, methyltris(2- ethylhexyloxycarbonylmethylthio)- (0.2% TO 2%)	57583- 34-3	Acute Toxicity: Ingestion/Oral-Rat LD50 • 920 mg/kg

GHS Properties	Classification

Preparation Date: 03/December/2014 Revision Date: 05/December/2014

Acute toxicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Aspiration Hazard	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Carcinogenicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Germ Cell Mutagenicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Skin corrosion/Irritation	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Skin sensitization	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
STOT-RE	EU/CLP • Specific Target Organ Toxicity Repeated Exposure 2 OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 2
STOT-SE	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Toxicity for Reproduction	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Respiratory sensitization	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Serious eye damage/Irritation	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking

Potential Health Effects

Inhalation

Acute (Immediate)	• Exposure to dust may cause irritation. Processes such as cutting, grinding, crushing, or impact may result in generation of excessive amounts of airborne dusts in the workplace. Nuisance dust may affect the lungs but reactions are typically reversible.
Chronic (Delayed)	 Prolonged exposure to the dust may cause wheezing, chest tightness, productive cough nasal irritation and symptoms of chronic respiratory disease.
Skin	
Acute (Immediate)	 Exposure to dust may cause mechanical irritation.
Chronic (Delayed)	 No data available.
Eye	
Acute (Immediate)	 Exposure to dust may cause mechanical irritation. Excessive concentrations of nuisance dust in the workplace may reduce visibility and may cause unpleasant deposits in eyes.
Chronic (Delayed)	 No data available.
Ingestion	
Acute (Immediate)	 Excessive concentrations of nuisance dust in the workplace may cause mechanical irritation to mucous membranes.
Chronic (Delayed)	No data available
Carcinogenic Effects	 This material contains a component that may cause cancer, however, based on regulatory criteria this material is not classified as a carcinogen.
Key to abbreviations	
LD = Lethal Dose	
TD = Toxic Dose	

Section 12 - Ecological Information

12.1 Toxicity

Material data lacking.

12.2 Persistence and degradability

Material data lacking.

12.3 Bioaccumulative potential

Material data lacking.

12.4 Mobility in Soil

Material data lacking.

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment has not been carried out.

12.6 Other adverse effects

Material data lacking.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA
TDG	NDA	Not Regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not Regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not Regulated	NDA	NDA	NDA

14.6 Special precautions for • None specified. user 14.7 Transport in bulk Data lacking.

according to Annex II of MARPOL 73/78 and the IBC Code

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications . Chronic

		State Right To K	n ow	
Component	CAS	MA	NJ	PA
8-Oxa-3,5-dithia-4- stannatetradecanoic acid, 10-ethyl-4,4- dimethyl-7-oxo-, 2- ethylhexyl ester	57583-35-4	No	No	No
Polyvinyl Chloride	9002-86-2	No	Yes	No
Stannane, methyltris (2- ethylhexyloxycarbonylmethylthio) -	57583-34-3	No	No	No

				l	nventory		~		
Component	CA	S	Canada	DSL	Canada NDSL	China	China EU EI		EU ELNICS
8-Oxa-3,5-dithia-4- stannatetradecanoic acid, 10-ethyl-4,4- dimethyl-7-oxo-, 2- ethylhexyl ester	57583- 4	⊢35- Yes			No	Yes	Ye	s	No
Polyvinyl Chloride	9002-8	36-2	2 Yes		No	Yes	No)	Yes
Stannane, methyltris (2- ethylhexyloxycarbonylmethylthio) -	57583- 3	-34-	Yes		No	Yes	Ye	s	No
				Inver	ntory (Con't.)				
Component			CAS	Ja	ipan ENCS	Korea KEC	L		TSCA
8-Oxa-3,5-dithia-4- stannatetradecanoic acid, 10-ethyl-4,4- dimethyl-7-oxo-, 2- ethylhexyl ester		5758	3-35-4		Yes	Yes			Yes
Polyvinyl Chloride		9002	-86-2		Yes	Yes			Yes
Stannane, methyltris (2- ethylhexyloxycarbonylmethylthio) -		5758	3-34-3		Yes	Yes			Yes

Australia

abor Australia - Work Health and Safety Regulations - Hazardous Substances Requiring	Health Monito	ring
Polyvinyl Chloride	9002-86-2	Not Listed
• 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester	57583-35-4	Not Listed
 Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- 	57583-34-3	Not Listed
Australia - High Volume Industrial Chemicals List Polyvinyl Chloride 	9002-86-2	
 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester 	57583-35-4	Not Listed
 Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- 	57583-34-3	Not Listed

Australia - List of Designated Hazardous Substances - Classification

Polyvinyl Chloride	9002-86-2	Not Listed
• 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester	57583-35-4	Not Listed
 Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- 	57583-34-3	Not Listed

Environment		
Australia - National Pollutant Inventory (NPI) Substance List		
Polyvinyl Chloride	9002-86-2	Not Listed
 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester 	57583-35-4	Not Listed
 Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- 	57583-34-3	Not Listed
Australia - Ozone Protection Act - Scheduled Substances		
Polyvinyl Chloride	9002-86-2	Not Listed
 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester 	57583-35-4	Not Listed
 Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- 	57583-34-3	Not Listed
Australia - Priority Existing Chemical Program		
Polyvinyl Chloride	9002-86-2	Not Listed
 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester 	57583-35-4	Not Listed
 Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- 	57583-34-3	Not Listed

Canada

Labor Canada - WHMIS - Classifications of Substances		
Polyvinyl Chloride	9002-86-2	Uncontrolled product according to WHMIS classification criteria
 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester 	57583-35-4	Not Listed
Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)-	57583-34-3	Not Listed
Canada - WHMIS - Ingredient Disclosure List		
Polyvinyl Chloride	9002-86-2	Not Listed
 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester 	57583-35-4	Not Listed
 Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- 	57583-34-3	Not Listed

- Environment

Polyvinyl Chloride 9002-86-2 Not Listed 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- 57583-34-3 Not Listed	Canada - CEPA - Priority Substances List		
8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl 57583-35-4 Not Listed Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- 57583-34-3 Not Listed	Polyvinyl Chloride	9002-86-2	Not Listed
Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- 57583-34-3 Not Listed	 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester 	57583-35-4	Not Listed
	 Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- 	57583-34-3	Not Listed

Europe

Other EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification		
Polyvinyl Chloride	9002-86-2	Not Listed
 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester 	57583-35-4	Not Listed
 Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- 	57583-34-3	Not Listed

 EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits Polyvinyl Chloride 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- 	9002-86-2 57583-35-4 57583-34-3	Not Listed Not Listed Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling • Polyvinyl Chloride • 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester • Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)-	9002-86-2 57583-35-4 57583-34-3	Not Listed Not Listed Not Listed
 EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations Polyvinyl Chloride 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- 	9002-86-2 57583-35-4 57583-34-3	Not Listed Not Listed Not Listed
 EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases Polyvinyl Chloride 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- 	9002-86-2 57583-35-4 57583-34-3	Not Listed Not Listed Not Listed

Germany

Environment		
Germany - TA Luft - Types and Classes		
Polyvinyl Chloride	9002-86-2	Not Listed
 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester 	57583-35-4	Not Listed
 Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- 	57583-34-3	Not Listed
Cormony, TA Luft, Emission Limits for Coreinogonia Substances		
Polyvinyl Chloride	9002-86-2	Not Listed
 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester 	57583-35-4	Not Listed
 Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- 	57583-34-3	Not Listed
Germany - TA Luft - Emission Limits for Fibers		
Polyvinyl Chloride	9002-86-2	Not Listed
 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester 	57583-35-4	Not Listed
 Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- 	57583-34-3	Not Listed
Germany - TA Luft - Emission Limits for Inorganic Dusts		
Polyvinyl Chloride	9002-86-2	Not Listed
 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester 	57583-35-4	Not Listed
 Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- 	57583-34-3	Not Listed
Germany - TA Luft - Emission Limits for Inorganic Gases		
Polyvinyl Chloride	9002-86-2	Not Listed
 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester 	57583-35-4	Not Listed

Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)-	57583-34-3	Not Listed
Germany - TA Luft - Emission Limits for Organic Substances Polyvinyl Chloride 	9002-86-2	Not Listed
8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester	57583-35-4	Not Listed
Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)-	57583-34-3	Not Listed
Germany - Water Classification (VwVwS) - Annex 1		
Polyvinyl Chloride	9002-86-2	Not Listed
8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester	57583-35-4	Not Listed
 Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- 	57583-34-3	Not Listed
Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes		
Polyvinyl Chloride	9002-86-2	Not Listed
 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester 	57583-35-4	ID Number 575, hazard class 2 - hazard to waters
Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)-	57583-34-3	ID Number 576, hazard class 2 - hazard to waters
Germany - Water Classification (VwVwS) - Annex 3		
Polyvinyl Chloride	9002-86-2	Not Listed
8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester	57583-35-4	Not Listed
 Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- 	57583-34-3	Not Listed

Japan

Environment Inventory - Japan - Industrial Safety and Health Law Substances (ISHL)		
Polyvinyl Chloride	9002-86-2	Not Listed
 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester 	57583-35-4	Not Listed
 Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- 	57583-34-3	Not Listed

United States

Labor U.S OSHA - Process Safety Management - Highly Hazardous Chemicals		
Polyvinyl Chloride	9002-86-2	Not Listed
 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester 	57583-35-4	Not Listed
Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)-	57583-34-3	Not Listed
U.S OSHA - Specifically Regulated Chemicals		
Polyvinyl Chloride	9002-86-2	Not Listed
 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester 	57583-35-4	Not Listed
Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)-	57583-34-3	Not Listed

Environment

U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants			L
Polyvinyl Chloride	9002-86-2	Not Listed	
 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester 	57583-35-4	Not Listed	

Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)-	57583-34-3	Not Listed
U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantities Polyvinyl Chloride 	9002-86-2	Not Listed
• 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl	57583-35-4	Not Listed
Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)-	57583-34-3	Not Listed
U.S. CERCI A/SARA Redienvelides and Their Reportable Quantities		
• Polyvinyl Chloride	9002-86-2	Not Listed
• 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl	57583-35-4	Not Listed
Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)-	57583-34-3	Not Listed
U.S. CEDCI A/SADA Section 202 Extremely Hererdous Substances EDCDA DOs		
• Polyvinyl Chloride	9002-86-2	Not Listed
• 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl	57583-35-4	Not Listed
Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)-	57583-34-3	Not Listed
U.S. CEDCI A/SADA - Section 302 Extremely Hazardous Substances TDOs		
Polyvinyl Chloride	9002-86-2	Not Listed
• 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester	57583-35-4	Not Listed
Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)-	57583-34-3	Not Listed
IIS - CERCI A/SARA - Section 313 - Emission Reporting		
Polyvinyl Chloride	9002-86-2	Not Listed
8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester	57583-35-4	Not Listed
Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)-	57583-34-3	Not Listed
U.S CERCLA/SARA - Section 313 - PBT Chemical Listing		
Polyvinyl Chloride	9002-86-2	Not Listed
 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester 	57583-35-4	Not Listed
 Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- 	57583-34-3	Not Listed
U.S RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix	VII	
Polyvinyl Chloride	9002-86-2	Not Listed
• 8-Oxa-3,5-ditnia-4-stannatetradecanoic acid, 10-etnyi-4,4-dimetnyi-7-oxo-, 2-etnyinexyi ester	57583-35-4	Not Listed
 Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- 	57583-34-3	Not Listed
U.S RCRA (Resource Conservation & Recovery Act) - Constituents for Detection M	Ionitoring	
Polyvinyl Chloride Sova 2.5 dithig 4 standstatedeepering and 10 sthul 4.4 dimethod 7 ave - 2 sthulboard	9002-86-2	Not Listed
• o-Oxa-5,5-utilia-4-stannatetradecanoic acid, 10-etilyi-4,4-utilietilyi-7-0xo-, 2-etilyinexyi ester	57583-35-4	Not Listed
Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)-	57583-34-3	Not Listed
U.S RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Ap • Polyvinyl Chloride	opendix VIII to 4 9002-86-2	0 CFR 261 Not Listed
8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester	57583-35-4	Not Listed
Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)-	57583-34-3	Not Listed

U.S RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents					
Polyvinyl Chloride	9002-86-2	Not Listed			
8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester	57583-35-4	Not Listed			
 Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- 	57583-34-3	Not Listed			
U.S RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards					
Polyvinyl Chloride	9002-86-2	Not Listed			
8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester	57583-35-4	Not Listed			
 Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- 	57583-34-3	Not Listed			
U.S RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water Monitoring • Polyvinyl Chloride 9002-86-2 Not Listed					
• 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester	57583-35-4	Not Listed			
 Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- 	57583-34-3	Not Listed			
 Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- U.S RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely To Characteristics 	57583-34-3 oxic Wastes & (Not Listed Dther Hazardous			
 Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- U.S RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely To Characteristics Polyvinyl Chloride 	57583-34-3 xic Wastes & (9002-86-2	Not Listed Dther Hazardous Not Listed			
 Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- U.S RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely To Characteristics Polyvinyl Chloride 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester 	57583-34-3 xic Wastes & (9002-86-2 57583-35-4	Not Listed Other Hazardous Not Listed Not Listed			

United States - California

Environment		
U.S California - Proposition 65 - Carcinogens List		
Polyvinyl Chloride	9002-86-2	Not Listed
 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester 	57583-35-4	Not Listed
 Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- 	57583-34-3	Not Listed
IIS - California - Proposition 65 - Developmental Toxicity		
Polyvinyl Chloride	9002-86-2	Not Listed
8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester	57583-35-4	Not Listed
 Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- 	57583-34-3	Not Listed
IIS - California - Proposition 65 - No Significant Disk Lovals (NSPL)		
Polyvinyl Chloride	9002-86-2	Not Listed
 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester 	57583-35-4	Not Listed
 Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- 	57583-34-3	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Female		
Polyvinyl Chloride	9002-86-2	Not Listed
 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester 	57583-35-4	Not Listed
 Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)- 	57583-34-3	Not Listed
IIS - California - Pronosition 65 - Reproductive Toxicity - Male		
Polyvinyl Chloride	9002-86-2	Not Listed
 8-Oxa-3,5-dithia-4-stannatetradecanoic acid, 10-ethyl-4,4-dimethyl-7-oxo-, 2-ethylhexyl ester 	57583-35-4	Not Listed

· Stannane, methyltris(2-ethylhexyloxycarbonylmethylthio)-

57583-34-3 Not Listed

United States - Pennsylvania

9002-86-2	Not Listed
57583-35-4	Not Listed
57583-34-3	Not Listed
9002-86-2	Not Listed
57583-35-4	Not Listed
57583-34-3	Not Listed
	9002-86-2 57583-35-4 57583-34-3 9002-86-2 57583-35-4 57583-34-3

15.2 Chemical Safety Assessment

• No Chemical Safety Assessment has been carried out.

15.3 Other Information

• WARNING: This product contains a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

Section 16 - Other Information

Relevant Phrases (code & full text)

	 H302 - Harmful if swallowed H317 - May cause an allergic skin reaction H361d - Suspected of damaging the unborn child. H372 - Causes damage to organs through prolonged or repeated exposure. H400 - Very toxic to aquatic life R22 - Harmful if swallowed. R43 - May cause sensitisation by skin contact. R48/25 - Toxic: danger of serious damage to health by prolonged exposure if swallowed. R50 - Very toxic to aquatic organisms. R63 - Possible risk of harm to the unborn child.
Last Revision Date	• 04/December/2014
Preparation Date	• 03/December/2014
Disclaimer/Statement of Liability	 Because we cannot anticipate or control the many different conditions under which this information and our products may be used, we do not guarantee the applicability of the accuracy of this information or the suitability of our products in any given situation. Users should conduct their own tests to determine the suitability of each product for their particular purposes. Data in the physical property table represents typical values and are to serve only as a guide for engineering design. Results are obtained from specimens under ideal laboratory conditions. Right to change physical properties as a result of technical progress is reserved. THE PRODUCTS DISCUSSED ARE SOLD WITHOUT WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, EITHER EXPRESSED OR IMPLIED, EXCEPT AS PROVIDED IN OUR STANDARD TERMS AND CONDITIONS OF SALE. Buyer assumes all responsibility for loss or damage arising from the handling and use of our products, whether done in accordance with directions or not. In no event shall the supplier or the manufacturer be liable for incidental or consequential damages. Also, statements concerning the possible use of our products are not intended as recommendations to use our products in the infringement of any patent. Consult local code and regulatory agencies for specific requirements regarding code compliance,

transporting, processing, recycling and disposal of our product. Product not intended for use as a heat resistant surface. Texture, product grade and other conditions may cause variations in appearance.

Key to abbreviations NDA = No Data Available