

Safety Data Sheet SNT7906 Date of issue: 01/13/2015 Revision date: 08/31/2015

Version: 2.0

1.1. Product identifier					
Product form	: Substance				
Physical state	: Liquid				
Substance name	: TETRAVINYLTIN				
Product code	: SNT7906				
Formula	: C8H12Sn				
Synonyms	: TETRAETHENYLSTANNANE				
Chemical family	: ORGANOTIN				
1.2. Relevant identified uses of the	substance or mixture and uses advised against				
Use of the substance/mixture	: Chemical intermediate For research use only				
1.3. Details of the supplier of the sa	afety data sheet				
GELEST, INC. 11 East Steel Road Morrisville, PA 19067 USA T 215-547-1015 - F 215-547-2484 - (M-F): # info@gelest.com - www.gelest.com	8:00 AM - 5:30 PM EST				
1.4. Emergency telephone number Emergency number Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)				
	. Cheminted. 1-000-424-3500 (USA), +1703-327-3007 (International)				
SECTION 2: Hazards identification	on				
2.1. Classification of the substance	e or mixture				
Acute Tox. 3 (Oral) H301 Acute Tox. 3 (Dermal) H311					
Acute Tox. 3 (Oral)H301Acute Tox. 3 (Dermal)H311Acute Tox. 3 (Inhalation:vapour)H331Full text of H-phrases: see section 162.2.Label elements					
Acute Tox. 3 (Dermal) H311 Acute Tox. 3 (Inhalation:vapour) H331 Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling					
Acute Tox. 3 (Oral) H301 Acute Tox. 3 (Dermal) H311 Acute Tox. 3 (Inhalation:vapour) H331 Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)					
Acute Tox. 3 (Oral) H301 Acute Tox. 3 (Dermal) H311 Acute Tox. 3 (Inhalation:vapour) H331 Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	: Danger				
Acute Tox. 3 (Oral)H301Acute Tox. 3 (Dermal)H311Acute Tox. 3 (Inhalation:vapour)H331Full text of H-phrases: see section 162.2.Label elements	_				
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Acute Tox. 3 (Oral) H301 Acute Tox. 3 (Dermal) H311 Acute Tox. 3 (Inhalation:vapour) H331 Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 Danger H226 - Flammable liquid and vapor H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled P280 - Wear protective gloves/protective clothing/eye protection/face protection P261 - Avoid breathing vapors P312 - Call a doctor if you feel unwell P210 - Keep away from heat, open flames, sparks No smoking P233 - Keep container tightly closed P240 - Ground/bond container and receiving equipment P241 - Use explosion-proof electrical equipment P242 - Use only non-sparking tools P370+P378 - In case of fire: Use water spray, foam, carbon dioxide, dry chemical to extinguis P243 - Take precautionary measures against static discharge P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P310 - If swallowed: Immediately call a doctor P330 - Rinse mouth P303+P361+P353 - If on skin (or hair): take off immediately all contaminated clothing. rinse 				

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P363 - Wash contaminated clothing before reuse

P403+P233 - Store in a well-ventilated place. Keep container tightly closed

P405 - Store locked up

P501 - Dispose of contents/container to licensed waste disposal facility.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/inform	ation on in	gredients		
3.1. Substance				
Substance type	: Multi-	constituent		
Name : TETR		AVINYLTIN		
CAS No	56-7			
EC no	: 214-1	93-6		
Name		Product identifier	%	Classification (GHS-US)
Tetravinyltin		(CAS No) 1112-56-7	95 - 100	Flam. Liq. 3, H226 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:vapour), H331
Other Organotins			1 - 5	Not classified

3.2. Mixture

Not applicable

SECTION 4: First aid measures **Description of first aid measures** 4.1. Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek First-aid measures general : medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label. First-aid measures after inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician. First-aid measures after skin contact Wash with plenty of soap and water. Get immediate medical advice/attention. First-aid measures after eye contact Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if 11 present and easy to do. Continue rinsing. Get immediate medical advice/attention. : Never give anything by mouth to an unconscious person. Immediately call a poison center or First-aid measures after ingestion doctor/physician. 4.2. Most important symptoms and effects, both acute and delayed Symptoms/injuries after inhalation : Toxic if inhaled. Danger of serious damage to health by prolonged exposure through inhalation. Toxic in contact with skin. May cause skin irritation. Repeated exposure to this material can Symptoms/injuries after skin contact result in absorption through skin causing significant health hazard. Symptoms/injuries after eye contact May cause severe irritation. The onset of irritation may not occur until several hours after exposure. Toxic if swallowed. Swallowing a small quantity of this material will result in serious health Symptoms/injuries after ingestion hazard. General signs of toxicity for tetraalkyltins include muscular weakness and paralysis leading to Chronic symptoms respiratory failure, tremors, convulsive movements, closure of eyelids and photophobia. Indication of any immediate medical attention and special treatment needed

4.3. Indication of any immediate medical attention and special treatment needed
Note to physician: Application of corticosteroid creams has been effective in treating severe skin irritation. If blisters develop, they may require abrasion to promote healing.

SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Water spray. Foam. Carbon di	oxide. Dry chemical.	
5.2. Special hazards arising from the su	ibstance or mixture		
Fire hazard	: Flammable liquid and vapor. In material is exposed to elevate	ritating fumes and organic acid vapors may develop I temperatures or open flame.	when
Explosion hazard	: May form flammable/explosive	vapor-air mixture.	
5.3. Advice for firefighters			
Firefighting instructions	: Use water spray to cool expos	ed surfaces. Exercise caution when fighting any che	mical fire.
Protection during firefighting		roper protective equipment, including respiratory proand do not breathe vapor and mist.	otection.
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SECTION 6: Accidental release m	
	equipment and emergency procedures
General measures	: Remove ignition sources. Use special care to avoid static electric charges.
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. N	lotify authorities if liquid enters sewers or public waters.
6.3. Methods and material for contain	nment and cleaning up
Methods for cleaning up	: Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or shovel spills into appropriate container for disposal.
6.4. Reference to other sections	
See Heading 8. Exposure controls and perso	nal protection.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling	: Use only outdoors or in a well-ventilated area. Avoid breathing vapors. Provide good ventilation in process area to prevent accumulation of vapors. Containers must be properly grounded before beginning transfer. Take precautionary measures against static discharge. Use only non-sparking tools.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, incl	uding any incompatibilities
Technical measures	 Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical equipment.
Storage conditions	: Keep container tightly closed.
Incompatible materials	: Air. Direct sunlight. Oxidizing agent.
Storage area	: Store in a well-ventilated place. Store away from heat.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/pe	ersonal protection

8.1. Control parameters

o.r. Control parameters			
Other Organotins			
USA ACGIH	ACGIH TWA (mg/m ³)		0.1 mg/m³ (Tin)
Tetravinyltin (1112-56-7)			
USA OSHA	OSHA PEL (TWA) (mg/m ³)		0.1 mg/m ³ as tin
8.2. Exposure controls			
Appropriate engineering controls	: Provide lo	cal exhaust or general room	ventilation.
Personal protective equipment		innecessary exposure. Eme n the immediate vicinity of a	rgency eye wash fountains and safety showers should be ny potential exposure.
Hand protection	: Neoprene	or nitrile rubber gloves.	
Eye protection	: Chemical	goggles or face shield. Cont	tact lenses should not be worn.
Skin and body protection	: Wear suita	able protective clothing.	
Respiratory protection	: Where exp recommen	0	ay occur from use, respiratory protection equipment is

SECTION 9: Physical and chemical properties

Physical state : Liquid Appearance : Clear liquid. Molecular mass : 226.88 g/mol Color : Straw.	9.1.	Information on basic physical and	chemical properties
Molecular mass : 226.88 g/mol Color : Straw.	Phys	ical state	: Liquid
Color : Straw.	Аррє	earance	: Clear liquid.
	Mole	cular mass	: 226.88 g/mol
	Color	r	: Straw.
	Odor		: Mild.

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Odor threshold	: No data available
Refractive index	: 1.4914
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: ~1
Melting point	: No data available
Freezing point	: <0°C
Boiling point	: 160 - 163 °C
Flash point	: 40 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable liquid and vapor
Vapor pressure	: 17 mm Hg @ 56°C
Relative vapor density at 20 °C	: >1
Relative density	: 1.257
VOC content	: <1%
Solubility	: Insoluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, kinematic Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
10.2. Chemical stability	
10.2. Chemical stability Stable.	
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Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.
Symptoms/injuries after inhalation	: Toxic if inhaled. Danger of serious damage to health by prolonged exposure through inhalati
Symptoms/injuries after skin contact	: Toxic in contact with skin. May cause skin irritation. Repeated exposure to this material can result in absorption through skin causing significant health hazard.
Symptoms/injuries after eye contact	: May cause severe irritation. The onset of irritation may not occur until several hours after exposure.
Symptoms/injuries after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.
Chronic symptoms	: General signs of toxicity for tetraalkyltins include muscular weakness and paralysis leading to respiratory failure, tremors, convulsive movements, closure of eyelids and photophobia.
SECTION 12: Ecological information	
2.1. Toxicity	
No additional information available	
2.2. Persistence and degradability	
lo additional information available	
2.3. Bioaccumulative potential	
No additional information available	
2.4. Mobility in soil	
No additional information available	
2.5. Other adverse effects	
Other adverse effects	: This substance may be hazardous to the environment.
Effect on ozone layer	: No additional information available
Effect on the global warming	: No known ecological damage caused by this product.
SECTION 13: Disposal consideratio	
3.1. Waste treatment methods	
Vaste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.
Additional information	: Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials	: Avoid release to the environment. Hazardous waste due to toxicity.
SECTION 14: Transport information	
4.1. UN number	
JN-No.(DOT)	: 2929
DOT NA no.	UN2929
4.2. UN proper shipping name	
Proper Shipping Name (DOT)	: TOXIC LIQUIDS, FLAMMABLE, ORGANIC, N.O.S. (TETRAVINYLTIN)
Department of Transportation (DOT) Hazard Classes	: 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132
Hazard labels (DOT)	: 6.1 - Poison 3 - Flammable liquid

3 - Flammable liquid

: G - Identifies PSN requiring a technical name

DOT Symbols Packing group (DOT)

DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) : 153

: 202

: 243

: II - Medium Danger

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	nation				
Other information	: 1	No suppl	ementary information availal	ble.	
Transport by sea					
DOT Vessel Stowage Loc	1	bassenge bassenge bassenge	er vessel carrying a number ers, or one passenger per ea	on deck" or "under deck" on a of passengers limited to not n ach 3 m of overall vessel leng per of passengers specified in	nore than the larger of 25 th; and (ii) "On deck only" or
DOT Vessel Stowage Oth	er : 4	40 - Stow	" "clear of living quarters"		
Air transport DOT Quantity Limitations (49 CFR 173.27)	Passenger aircraft/rail : {	5 L			
DOT Quantity Limitations CFR 175.75)	Cargo aircraft only (49 : 6	60 L			
SECTION 15: Regul	latory information				
15.1. US Federal regulat	ions				
TETRAVINYLTIN (1112	-56-7)				
TSCA Exemption/Exclus	 	R&D exe exemptio 720.3(ee	mption under TSCA, 40 CFF n, including supervision by a	for research and developmen R 720.36, and must meet the a "technically qualified individu or "commercial purposes" as o	requirements of the ual" as defined by 40 CFR
Tetravinyltin (1112-56-7	7)				
Not listed on the United	States TSCA (Toxic Substa	ances Co	ntrol Act) inventory		
15.2. International regula	ations				
Tetravinyltin (1112-56-7	7)				
Tetravinyltin (1112-56-7 Listed on the EEC inven		ventory o	f Existing Commercial Chen	nical Substances)	
Listed on the EEC inven	tory EINECS (European Inv	ventory o	f Existing Commercial Chen	nical Substances)	
Listed on the EEC inven	tory EINECS (European Int	ventory o	f Existing Commercial Chen	nical Substances)	
Listed on the EEC inven 15.3. US State regulation TETRAVINYLTIN(1112-50	tory EINECS (European Inv 15 6-7)	ventory o	f Existing Commercial Chen	nical Substances)	
Listed on the EEC inven 15.3. US State regulation TETRAVINYLTIN(1112-5 U.S California - Proposi U.S California - Proposi	tory EINECS (European In 15 6-7) tion 65 - Carcinogens List		f Existing Commercial Chen	nical Substances)	
Listed on the EEC inven 15.3. US State regulation TETRAVINYLTIN(1112-5 U.S California - Proposi U.S California - Proposi Toxicity U.S California - Proposi	tory EINECS (European Inv ns 6-7) tion 65 - Carcinogens List tion 65 - Developmental	No	f Existing Commercial Chen	nical Substances)	
Listed on the EEC inven 15.3. US State regulation TETRAVINYLTIN(1112-50 U.S California - Proposi Toxicity U.S California - Proposi Toxicity - Female U.S California - Proposi	tory EINECS (European Inv 15 6-7) tion 65 - Carcinogens List tion 65 - Developmental tion 65 - Reproductive	No No	f Existing Commercial Chen	nical Substances)	
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Safety Data Sheet

SECTION 16: Other information	
Abbreviations and acronyms	: Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development.

Full text of H-phrases::

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation:vapour)	Acute toxicity (inhalation:vapor) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Flam. Liq. 3	Flammable liquids Category 3
H226	Flammable liquid and vapor
H301	Toxic if swallowed
H311	Toxic in contact with skin
H331	Toxic if inhaled

HMIS III Rating

Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 3 Serious Hazard
Physical	: 0 Minimal Hazard
Prepared by safety and environmental affairs.	
Date of issue: 01/13/2015 Revision date: 08/31/	2015 Version: 2.0
SDS US (GHS HazCom 2012) - Custom	
According to Federal Register / Vol. 77, No. 58 / Monda	y, March 26, 2012 / Rules and Regulations

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