

ETHYLTRIMETHYLTIN

Safety Data Sheet SNE4901.7 Date of issue: 05/01/2017 Version: 1.0

SECTION 1: Identification	
1.1. Product identifier	
Product name	: ETHYLTRIMETHYLTIN
Product code	: SNE4901.7
Product form	: Substance
Physical state	: Liquid
Formula	: C5H14Sn
Synonyms	
	ETHYLTRIMETHYLSTANNANE TRIMETHYLETHYLSTANNANE
Chemical family	: ORGANOTIN
1.2. Recommended use of the chemical	
Recommended use	: Chemical intermediate For research use only
1.3. Details of the supplier of the safety of	data sheet
GELEST, INC.	
11 East Steel Road Morrisville, PA 19067	
USA	
T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 /	AM - 5:30 PM EST
info@gelest.com - www.gelest.com	
1.4. Emergency telephone number	
Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or m	ixture
GHS-US classification	
Flammable liquids Category 2 H2	225
	301
Acute toxicity (dermal) Category 3 H3	311
Acute toxicity (inhalation:vapor) Category 3 H3	331
Full text of H statements : see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	
	GHS02 GHS06
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	 H225 - Highly flammable liquid and vapor H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled
Precautionary statements (GHS-US)	: P280 - Wear protective gloves/protective clothing/eye protection/face protection
riceautionary statements (on o oo)	P210 - Keep away from heat, open flames, sparks No smoking
	P240 - Ground/Bond container and receiving equipment
	P241 - Use explosion-proof electrical equipment
	P242 - Use only non-sparking tools
	P243 - Take precautionary measures against static discharge P261 - Avoid breathing vapors
	P264 - Wash hands thoroughly after handling
	P270 - Do not eat, drink or smoke when using this product
	P271 - Use only outdoors or in a well-ventilated area
	P330 - Rinse mouth P304 P310 - If availaved: Immediately cell a dector
	P301+P310 - If swallowed: Immediately call a doctor P303+P361+P353 - If on skin (or hair): take off immediately all contaminated clothing. rinse
	skin with water/shower
	P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
	P312 - Call a POISON CENTER if you feel unwell
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	P321 - Specific treatment (see first aid ins P361+P364 - Take off immediately all con P370+P378 - In case of fire: Use water sp P403+P233 - Store in a well-ventilated pla P403+P235 - Keep in a cool place P405 - Store locked up P501 - Dispose of contents/container to lice	taminated clothing ray, foam, carbon ce. Keep containe	and wash it before reuse dioxide, dry chemical to extinguish r tightly closed
2.3. Hazards not otherwise classified (H	NOC)		
No additional information available			
2.4. Unknown acute toxicity (GHS US)			
No data available			
SECTION 3: Composition/Informatio	n on ingredients		
3.1. Substances			
Substance type	: Mono-constituent		
Name	: ETHYLTRIMETHYLTIN		
CAS-No.	: 3531-44-0		
Name	Product identifier	%	GHS-US classification
Ethyltrimethyltin	(CAS-No.) 3531-44-0	97 - 100	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:vapour), H331
Full text of hazard classes and H-statements : se	ee section 16		
3.2. Mixtures			
Not applicable			
4.1. Description of first aid measures			
First-aid measures general	: Remove contaminated clothing and shoes medical advice immediately (show the lab		
	available show packaging or label.	ei where possible).	
First-aid measures after inhalation	: Remove victim to fresh air and keep at rescall a poison center or doctor/physician.	at in a position com	fortable for breathing. Immediately
First-aid measures after skin contact	: Wash with plenty of soap and water. Imme	ediately call a poiso	on center or doctor/physician.
First-aid measures after eye contact	 Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention. 		
First-aid measures after ingestion			
4.2. Most important symptoms and effect	ts, both acute and delayed		
Symptoms/effects after inhalation	: Toxic if inhaled. Danger of serious damag	e to health by prolo	onged exposure through inhalation.
Symptoms/effects after skin contact	 Toxic in initiated. Danger of senous damage to health by protonged exposure through initiation. Toxic in contact with skin. Repeated exposure to this material can result in absorption through skin causing significant health hazard. May cause skin irritation. 		
Symptoms/effects after eye contact	 May cause eye irritation. The onset of irritation may not occur until several hours after exposure. 		
Symptoms/effects after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.		
Chronic symptoms	: May cause central nervous system.		
4.3. Indication of any immediate medica	l attention and special treatment needed		
Note to physician: Application of corticosteroid contrasterio abrasion to promote healing.	reams has been effective in treating severe sk	in irritation. If bliste	ers develop, they may require
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Water spray. Foam. Carbon dioxide. Dry o	hemical.	
Unsuitable extinguishing media	: None known.		
5.2. Special hazards arising from the sul	bstance or mixture		
Fire hazard	: Highly flammable liquid and vapor. Irritatin material is exposed to elevated temperatu		
Explosion hazard	: May form flammable/explosive vapor-air n		
5.3. Advice for firefighters			
Firefighting instructions	: Exercise caution when fighting any chemic	cal fire. Use water	spray to cool exposed surfaces.
Protection during firefighting	: Do not enter fire area without proper prote Avoid all eye and skin contact and do not	ctive equipment, ir	ncluding respiratory protection.

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6.1. Personal precauti	ions, protective equipment and emergend	y procedures	
General measures	: Eliminate every poss	ible source of ignition. Use special care to avoid static electric charges.	
.1.1. For non-emergen	cy personnel		
Protective equipment	: Wear protective equi	ipment as described in Section 8.	
mergency procedures	: Evacuate unnecessa	ary personnel.	
.1.2. For emergency re	esponders		
Protective equipment		e action without suitable protective equipment. Equip cleanup crew with or further information refer to section 8: "Exposure controls/personal	
.2. Environmental pr	ecautions		
revent entry to sewers and	public waters. Notify authorities if liquid ente	rs sewers or public waters.	
3.3. Methods and mat	terial for containment and cleaning up		
For containment	: Contain any spills wi streams.	th dikes or absorbents to prevent migration and entry into sewers or	
Nethods for cleaning up	: Clean up any spills a sparking tools.	is soon as possible, using an absorbent material to collect it. Use only nor	
6.4. Reference to othe			
See Heading 8. Exposure co	ontrols and personal protection.		
ECTION 7: Handling	and storage		
7.1. Precautions for s	afe handling		
Additional hazards when pro		ners with care because residual vapors are flammable. Keep away from mes/hot surfaces No smoking.	
Precautions for safe handling	receiving equipment	n contact and do not breathe vapor and mist. Ground/bond container and . Take precautionary measures against static discharge. Use only outdoor d area. Use only non-sparking tools.	
		 Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. 	
lygiene measures	soap and water befo	re eating, drinking of shoking and when leaving work.	
	soap and water befo		
Hygiene measures 7.2. Conditions for sa Technical measures	fe storage, including any incompatibilities	s ocedures to avoid static electricity should be followed. Use explosion-proo	
Conditions for sa Technical measures	fe storage, including any incompatibilities : Proper grounding pro- electrical equipment.	s ocedures to avoid static electricity should be followed. Use explosion-proo	
.2. Conditions for sa rechnical measures	ife storage, including any incompatibilities : Proper grounding pro- electrical equipment. : Keep container tight : Direct sunlight. Oxide	s occedures to avoid static electricity should be followed. Use explosion-proc y closed. Keep in a cool place. izing agent.	
.2. Conditions for sa echnical measures storage conditions noompatible materials	ife storage, including any incompatibilities : Proper grounding pro- electrical equipment. : Keep container tight : Direct sunlight. Oxide	s occedures to avoid static electricity should be followed. Use explosion-proc y closed. Keep in a cool place.	
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Conditions for sare Technical measures Storage conditions ncompatible materials Storage area Storage area<	fe storage, including any incompatibilities Proper grounding pre-electrical equipment. Keep container tightli Direct sunlight. Oxidi Store in a well-ventilities e controls/personal protection ACGIH TWA (mg/m³) 	s pocedures to avoid static electricity should be followed. Use explosion-proc y closed. Keep in a cool place. izing agent. ated place. Store away from heat. 0.1 mg/m ³ as tin	

· · · · · · · · · · · · · · · · · · ·	available in the immediate vicinity of any potential exposure.
Hand protection	: Neoprene or nitrile rubber gloves.
Eye protection	: Chemical goggles or face shield. Contact lenses should not be worn.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	 Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified combination organic vapor/acid gas (yellow cartridge) respirator.

SECTION 9: Physical and chemical properties		
9.1.	Information on basic physical and chemica	al properties
Physical	l state : Liqu	Juid

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Appearance	: Liquid.
Molecular mass	: 192.87 g/mol
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
Refractive index	: 1.4085
ЪН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 77 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
	: No data available
Decomposition temperature	
Flammability (solid, gas)	: Highly flammable liquid and vapor
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 0.9115
Solubility	: Insoluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
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 reactivit	V
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable.	
10.3. Possibility of hazardous reactions	
Direct sunlight causes degradation to an inorga	anic tin salt.
	anic tin salt.
10.4. Conditions to avoid	anic tin salt.
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Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
	None of the components in this product at concentrations >0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Symptoms/effects after inhalation	: Toxic if inhaled. Danger of serious damage to health by prolonged exposure through inhalation.
Symptoms/effects after skin contact	: Toxic in contact with skin. Repeated exposure to this material can result in absorption through skin causing significant health hazard. May cause skin irritation.
Symptoms/effects after eye contact	: May cause eye irritation. The onset of irritation may not occur until several hours after exposure.
Symptoms/effects after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.
Chronic symptoms	: May cause central nervous system.
Reason for classification	: Expert judgment

SECTION 12: Ecological information

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12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. 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 effects from this product.
GWPmix comment	: No known effects from this product.

SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Sewage disposal recommendations	: Do not dispose of waste into sewer.	
Product/Packaging 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.	

SECTION 14: Transport information UN number 14.1. UN-No.(DOT) : 1992 DOT NA no. UN1992 14.2. **UN proper shipping name** Transport document description : UN1992 Flammable liquids, toxic, n.o.s. (ETHYLTRIMETHYLTIN), 3 (6.1), II Proper Shipping Name (DOT) : Flammable liquids, toxic, n.o.s. (ETHYLTRIMETHYLTIN) Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 Packing group (DOT) : II - Medium Danger

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Hazard labels (DOT)	: 3 - Flammable liquid 6.1 - Poison	
	POISON 3 6	
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202	
DOT Packaging Bulk (49 CFR 173.xxx)	: 243	
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150	
DOT Symbols	: G - Identifies PSN requiring a technical name	
14.3. Additional information		
Emergency Response Guide (ERG) Number	: 131	
Other information	: No supplementary information available.	
Transport by sea		
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.	
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"	
Air transport		
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 1L	
DOT Quantity Limitations Cargo aircraft only (49	: 60 L	
CFR 175.75)		
SECTION 15: Regulatory information	1	
SECTION 15: Regulatory information 15.1. US Federal regulations	n	
SECTION 15: Regulatory information 15.1. US Federal regulations ETHYLTRIMETHYLTIN (3531-44-0)	n	
SECTION 15: Regulatory information 15.1. US Federal regulations	CAUTION: This material is supplied for research and development purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and must meet the requirements of the exemption, including supervision by a "technically qualified individual" as defined by 40 CFR 720.3(ee). The use of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is not permitted in the United States.	
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SECTION 16: Other information

Full tex	t of H-phrases::	
	H225	Highly flammable liquid and vapor
	H301	Toxic if swallowed
	H311	Toxic in contact with skin
	H331	Toxic if inhaled

Safety Data Sheet

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; GHS: The Globally Harmonized System of Classification and Labelling.
3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
4 Severe Hazard - Flammable gases, or very volatile flammable liquids with flash points below 73 F, and boiling points below 100 F. Materials may ignite spontaneously with air. (Class IA)
0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
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Prepared by safety and environmental affairs.

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SDS US (GHS HazCom 2012) - Custom

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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