

### 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<br>TRIMETHYLETHYLSTANNANE  |
| Chemical family                                 | : ORGANOTIN   |
|   |   |
| <b>1.2.</b> Recommended use of the chemical     |   |
| Recommended use                                 | : Chemical intermediate<br>For research use only  |
|   |   |
| 1.3. Details of the supplier of the safety of   | data sheet  |
| GELEST, INC.                                    |   |
| 11 East Steel Road<br>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)                      | <ul> <li>H225 - Highly flammable liquid and vapor</li> <li>H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled</li> </ul>       |
| 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<br>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<br>P304 P310 - If availaved: Immediately cell a dector   |
|   | P301+P310 - If swallowed: Immediately call a doctor<br>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<br>P361+P364 - Take off immediately all con<br>P370+P378 - In case of fire: Use water sp<br>P403+P233 - Store in a well-ventilated pla<br>P403+P235 - Keep in a cool place<br>P405 - Store locked up<br>P501 - Dispose of contents/container to lice | taminated clothing<br>ray, foam, carbon<br>ce. Keep containe | and wash it before reuse<br>dioxide, dry chemical to extinguish<br>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  |   |  |   |
| <b>SECTION 3: Composition/Informatio</b>   | 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<br>Acute Tox. 3 (Oral), H301<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 3 (Inhalation:vapour),<br>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   | <ul> <li>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.</li> </ul>   |  |   |
| 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  | <ul> <li>Toxic in initiated. Danger of senous damage to health by protonged exposure through initiation.</li> <li>Toxic in contact with skin. Repeated exposure to this material can result in absorption through skin causing significant health hazard. May cause skin irritation.</li> </ul>   |  |   |
| Symptoms/effects after eye contact   | <ul> <li>May cause eye irritation. The onset of irritation may not occur until several hours after<br/>exposure.</li> </ul>   |  |   |
| 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<br>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<br>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<br>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<br>. Take precautionary measures against static discharge. Use only outdoor<br>d area. Use only non-sparking tools.                |  |
|   |  | <ul> <li>Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild<br/>soap and water before eating, drinking or smoking and when leaving work.</li> </ul>                    |  |
| lygiene measures  | soap and water befo  | re eating, drinking of shoking and when leaving work.   |  |
|   | soap and water befo  |   |  |
| Hygiene measures<br>7.2. Conditions for sa<br>Technical measures  | fe storage, including any incompatibilities  | s<br>ocedures to avoid static electricity should be followed. Use explosion-proo  |  |
| <b>Conditions for sa</b><br>Technical measures  | fe storage, including any incompatibilities<br>: Proper grounding pro-<br>electrical equipment.  | s<br>ocedures to avoid static electricity should be followed. Use explosion-proo  |  |
| .2. Conditions for sa<br>rechnical measures   | ife storage, including any incompatibilities         : Proper grounding pro-<br>electrical equipment.         : Keep container tight         : Direct sunlight. Oxide  | s<br>occedures to avoid static electricity should be followed. Use explosion-proc<br>y closed. Keep in a cool place.<br>izing agent.  |  |
| .2. Conditions for sa<br>echnical measures<br>storage conditions<br>noompatible materials   | ife storage, including any incompatibilities         : Proper grounding pro-<br>electrical equipment.         : Keep container tight         : Direct sunlight. Oxide  | s<br>occedures to avoid static electricity should be followed. Use explosion-proc<br>y closed. Keep in a cool place.  |  |
| 2.2. Conditions for sa<br>Technical measures<br>Storage conditions<br>Incompatible materials<br>Storage area  | fe storage, including any incompatibilities<br>Proper grounding pro-<br>electrical equipment.<br>Keep container tightl<br>Direct sunlight. Oxidi<br>Store in a well-ventilities  | s<br>occedures to avoid static electricity should be followed. Use explosion-proc<br>y closed. Keep in a cool place.<br>izing agent.  |  |
| 2. Conditions for sa<br>rechnical measures<br>storage conditions<br>noompatible materials<br>storage area   | ife storage, including any incompatibilities         : Proper grounding pre-<br>electrical equipment.         : Keep container tightl         : Direct sunlight. Oxidi         : Store in a well-ventilities   | s<br>occedures to avoid static electricity should be followed. Use explosion-proc<br>y closed. Keep in a cool place.<br>izing agent.  |  |
| 2. Conditions for sa<br>rechnical measures<br>storage conditions<br>noompatible materials<br>storage area   | <ul> <li>If e storage, including any incompatibilities</li> <li>Proper grounding pro-<br/>electrical equipment.</li> <li>Keep container tightl</li> <li>Direct sunlight. Oxidi</li> <li>Store in a well-ventilies</li> </ul>   | s<br>occedures to avoid static electricity should be followed. Use explosion-proc<br>y closed. Keep in a cool place.<br>izing agent.  |  |
| 2. Conditions for sa<br>rechnical measures<br>storage conditions<br>incompatible materials<br>storage area<br><b>SECTION 8: Exposure</b><br>1. Control paramete   | <ul> <li>If e storage, including any incompatibilities</li> <li>Proper grounding pro-<br/>electrical equipment.</li> <li>Keep container tightl</li> <li>Direct sunlight. Oxidi</li> <li>Store in a well-ventilies</li> </ul>   | s<br>occedures to avoid static electricity should be followed. Use explosion-proc<br>y closed. Keep in a cool place.<br>izing agent.  |  |
| 2.2. Conditions for sa<br>Technical measures<br>Storage conditions<br>incompatible materials<br>Storage area<br>SECTION 8: Exposure<br>3.1. Control paramete<br>Ethyltrimethyltin (3531-44  | ife storage, including any incompatibilities         : Proper grounding pro-<br>electrical equipment.         : Keep container tightl         : Direct sunlight. Oxidit         : Store in a well-ventilities         e controls/personal protection         ers         4-0)                          | s<br>occedures to avoid static electricity should be followed. Use explosion-proc<br>y closed. Keep in a cool place.<br>izing agent.<br>ated place. Store away from heat.                                 |  |
| Conditions for sare         Technical measures         Storage conditions         ncompatible materials         Storage area         Storage area< | fe storage, including any incompatibilities <ul> <li>Proper grounding pre-electrical equipment.</li> <li>Keep container tightli</li> <li>Direct sunlight. Oxidi</li> <li>Store in a well-ventilities</li> </ul> <li>e controls/personal protection         <ul> <li>ACGIH TWA (mg/m³)</li> </ul> </li> | s<br>pocedures to avoid static electricity should be followed. Use explosion-proc<br>y closed. Keep in a cool place.<br>izing agent.<br>ated place. Store away from heat.<br>0.1 mg/m <sup>3</sup> 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                | <ul> <li>Where exposure through inhalation may occur from use, respiratory protection equipment is<br/>recommended. NIOSH-certified combination organic vapor/acid gas (yellow cartridge)<br/>respirator.</li> </ul> |

| 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.   |
| 10.4.         Conditions to avoid           No additional information available  | anic tin salt.   |
| 10.4.       Conditions to avoid         No additional information available         10.5.       Incompatible materials   | anic tin salt.   |
| 10.4.       Conditions to avoid         No additional information available         10.5.       Incompatible materials   | anic tin salt.   |
| 10.4.       Conditions to avoid         No additional information available         10.5.       Incompatible materials         Direct sunlight. Oxidizers.   |  |
| 10.4.       Conditions to avoid         No additional information available         10.5.       Incompatible materials         Direct sunlight. Oxidizers.         10.6.       Hazardous decomposition product   |  |
| 10.4.       Conditions to avoid         No additional information available         10.5.       Incompatible materials         Direct sunlight. Oxidizers.         10.6.       Hazardous decomposition produc         Organic acid vapors. Tin oxides.   | ts   |
| 10.4.       Conditions to avoid         No additional information available         10.5.       Incompatible materials         Direct sunlight. Oxidizers.         10.6.       Hazardous decomposition productor         Organic acid vapors. Tin oxides.         SECTION 11: Toxicological information  | ts   |
| 10.4.       Conditions to avoid         No additional information available         10.5.       Incompatible materials         Direct sunlight. Oxidizers.         10.6.       Hazardous decomposition produc         Organic acid vapors. Tin oxides.         SECTION 11: Toxicological information on toxicological effect   | ts<br>ation<br>ts  |
| 10.4.       Conditions to avoid         No additional information available         10.5.       Incompatible materials         Direct sunlight. Oxidizers.         10.6.       Hazardous decomposition produc         Organic acid vapors. Tin oxides.         SECTION 11: Toxicological information on toxicological effect   | ts   |
| 10.4.       Conditions to avoid         No additional information available         10.5.       Incompatible materials         Direct sunlight. Oxidizers.         10.6.       Hazardous decomposition productor         Organic acid vapors. Tin oxides.         SECTION 11: Toxicological information on toxicological effect         Acute toxicity         ETHYLTRIMETHYLTIN (3531-44-0)   | ts<br>ation<br>ts<br>: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation:vapour: Toxic if inhaled.  |
| 10.4.       Conditions to avoid         No additional information available         10.5.       Incompatible materials         Direct sunlight. Oxidizers.         10.6.       Hazardous decomposition productor         Organic acid vapors. Tin oxides.         SECTION 11: Toxicological information on toxicological effect         Acute toxicity         ETHYLTRIMETHYLTIN (3531-44-0)         ATE US (oral)   | ts<br>ation<br>ts<br>: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation:vapour: Toxic if inhaled.<br>100.000 mg/kg body weight   |
| 10.4.       Conditions to avoid         No additional information available         10.5.       Incompatible materials         Direct sunlight. Oxidizers.         10.6.       Hazardous decomposition productor         Organic acid vapors. Tin oxides.         SECTION 11: Toxicological information on toxicological effect         Acute toxicity         ETHYLTRIMETHYLTIN (3531-44-0)         ATE US (oral)         ATE US (dermal)   | ts ation ts : Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation:vapour: Toxic if inhaled. 100.000 mg/kg body weight 300.000 mg/kg body weight   |
| 10.4.       Conditions to avoid         No additional information available         10.5.       Incompatible materials         Direct sunlight. Oxidizers.         10.6.       Hazardous decomposition productor         Organic acid vapors. Tin oxides.         SECTION 11: Toxicological information on toxicological effect         Acute toxicity         ETHYLTRIMETHYLTIN (3531-44-0)         ATE US (oral)   | ts<br>ation<br>ts<br>: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation:vapour: Toxic if inhaled.<br>100.000 mg/kg body weight   |
| IO.4.       Conditions to avoid         No additional information available         IO.5.       Incompatible materials         Direct sunlight. Oxidizers.         IO.6.       Hazardous decomposition productor         Organic acid vapors. Tin oxides.         SECTION 11: Toxicological information on toxicological effect         Acute toxicity         ETHYLTRIMETHYLTIN (3531-44-0)         ATE US (oral)         ATE US (vapors)         Ethyltrimethyltin (3531-44-0)   | ts ation ts : Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation:vapour: Toxic if inhaled. 100.000 mg/kg body weight 300.000 mg/kg body weight   |
| 10.4.       Conditions to avoid         No additional information available         10.5.       Incompatible materials         Direct sunlight. Oxidizers.         10.6.       Hazardous decomposition productor         Organic acid vapors. Tin oxides.         SECTION 11: Toxicological information on toxicological effect         Acute toxicity         ETHYLTRIMETHYLTIN (3531-44-0)         ATE US (oral)         ATE US (vapors)   | ts ation ts : Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation:vapour: Toxic if inhaled. 100.000 mg/kg body weight 300.000 mg/kg body weight   |
| 10.4.       Conditions to avoid         No additional information available         10.5.       Incompatible materials         Direct sunlight. Oxidizers.         10.6.       Hazardous decomposition productor         Organic acid vapors. Tin oxides.         SECTION 11: Toxicological information on toxicological effect         Acute toxicity         ETHYLTRIMETHYLTIN (3531-44-0)         ATE US (oral)         ATE US (vapors)         Ethyltrimethyltin (3531-44-0)   | ts ation ts : Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation:vapour: Toxic if inhaled. 100.000 mg/kg body weight 300.000 mg/kg body weight 3.000 mg/l/4h   |
| 10.4.       Conditions to avoid         No additional information available         10.5.       Incompatible materials         Direct sunlight. Oxidizers.         10.6.       Hazardous decomposition productor         Organic acid vapors. Tin oxides.         SECTION 11: Toxicological information on toxicological effect         Acute toxicity         ETHYLTRIMETHYLTIN (3531-44-0)         ATE US (oral)         ATE US (vapors)         Ethyltrimethyltin (3531-44-0)         ATE US (oral)   | ts ation ts : Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation:vapour: Toxic if inhaled. 100.000 mg/kg body weight 300.000 mg/kg body weight 3.000 mg/l/4h 100.000 mg/kg body weight   |
| No additional information available          10.5.       Incompatible materials         Direct sunlight. Oxidizers.         10.6.       Hazardous decomposition productorial of the second sec | ts ation ts : Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation:vapour: Toxic if inhaled. 100.000 mg/kg body weight 300.000 mg/kg body weight 3.000 mg/l/4h 100.000 mg/kg body weight 300.000 mg/kg body weight 300.000 mg/kg body weight |

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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<br>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 | <ul> <li>Dispose in a safe manner in accordance with local/national regulations. Dispose of<br/>contents/container to licensed waste disposal facility.</li> </ul> |  |
| 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<br>6.1 - Poison   |  |
|--|--|--|
|  | POISON<br>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<br>15.1. US Federal regulations   | n  |  |
| SECTION 15: Regulatory information<br>15.1. US Federal regulations<br>ETHYLTRIMETHYLTIN (3531-44-0)  | n  |  |
| SECTION 15: Regulatory information<br>15.1. US Federal regulations   | CAUTION: This material is supplied for research and development<br>purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and<br>must meet the requirements of the exemption, including supervision by a<br>"technically qualified individual" as defined by 40 CFR 720.3(ee). The use<br>of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is<br>not permitted in the United States. |  |
| SECTION 15: Regulatory information<br>15.1. US Federal regulations<br>ETHYLTRIMETHYLTIN (3531-44-0)<br>TSCA Exemption/Exclusion  | CAUTION: This material is supplied for research and development<br>purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and<br>must meet the requirements of the exemption, including supervision by a<br>"technically qualified individual" as defined by 40 CFR 720.3(ee). The use<br>of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is  |  |
| SECTION 15: Regulatory information<br>15.1. US Federal regulations<br>ETHYLTRIMETHYLTIN (3531-44-0)<br>TSCA Exemption/Exclusion<br>Ethyltrimethyltin (3531-44-0)   | CAUTION: This material is supplied for research and development<br>purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and<br>must meet the requirements of the exemption, including supervision by a<br>"technically qualified individual" as defined by 40 CFR 720.3(ee). The use<br>of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is<br>not permitted in the United States. |  |
| SECTION 15: Regulatory information<br>15.1. US Federal regulations<br>ETHYLTRIMETHYLTIN (3531-44-0)<br>TSCA Exemption/Exclusion  | CAUTION: This material is supplied for research and development<br>purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and<br>must meet the requirements of the exemption, including supervision by a<br>"technically qualified individual" as defined by 40 CFR 720.3(ee). The use<br>of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is<br>not permitted in the United States. |  |
| SECTION 15: Regulatory information<br>15.1. US Federal regulations<br>ETHYLTRIMETHYLTIN (3531-44-0)<br>TSCA Exemption/Exclusion<br>Ethyltrimethyltin (3531-44-0)   | CAUTION: This material is supplied for research and development<br>purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and<br>must meet the requirements of the exemption, including supervision by a<br>"technically qualified individual" as defined by 40 CFR 720.3(ee). The use<br>of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is<br>not permitted in the United States. |  |
| SECTION 15: Regulatory information<br>15.1. US Federal regulations<br>ETHYLTRIMETHYLTIN (3531-44-0)<br>TSCA Exemption/Exclusion<br>Ethyltrimethyltin (3531-44-0)<br>Not listed on the United States TSCA (Toxic States)  | CAUTION: This material is supplied for research and development<br>purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and<br>must meet the requirements of the exemption, including supervision by a<br>"technically qualified individual" as defined by 40 CFR 720.3(ee). The use<br>of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is<br>not permitted in the United States. |  |
| SECTION 15: Regulatory information<br>15.1. US Federal regulations<br>ETHYLTRIMETHYLTIN (3531-44-0)<br>TSCA Exemption/Exclusion<br>Ethyltrimethyltin (3531-44-0)<br>Not listed on the United States TSCA (Toxic Sub-<br>15.2. International regulations  | CAUTION: This material is supplied for research and development<br>purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and<br>must meet the requirements of the exemption, including supervision by a<br>"technically qualified individual" as defined by 40 CFR 720.3(ee). The use<br>of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is<br>not permitted in the United States. |  |
| SECTION 15: Regulatory information 15.1. US Federal regulations ETHYLTRIMETHYLTIN (3531-44-0) TSCA Exemption/Exclusion Ethyltrimethyltin (3531-44-0) Not listed on the United States TSCA (Toxic States) 15.2. International regulations CANADA  | CAUTION: This material is supplied for research and development<br>purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and<br>must meet the requirements of the exemption, including supervision by a<br>"technically qualified individual" as defined by 40 CFR 720.3(ee). The use<br>of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is<br>not permitted in the United States. |  |
| SECTION 15: Regulatory information<br>15.1. US Federal regulations<br>ETHYLTRIMETHYLTIN (3531-44-0)<br>TSCA Exemption/Exclusion<br>Ethyltrimethyltin (3531-44-0)<br>Not listed on the United States TSCA (Toxic States)<br>15.2. International regulations<br>CANADA<br>No additional information available<br>EU-Regulations                    | CAUTION: This material is supplied for research and development<br>purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and<br>must meet the requirements of the exemption, including supervision by a<br>"technically qualified individual" as defined by 40 CFR 720.3(ee). The use<br>of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is<br>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. |
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|  |
| 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.  |
| :  |

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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