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| **1. Identification** |

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| **1.1. Product identifier** |

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| --- | --- | --- |
| **Product Identity** | Life Seal (Clear) |  |
| **Alternate Names** | Life Seal (Clear)  Silicone-Based Hybrid Sealant  Product Codes: 1109, 1160, 1166, 1169, 12169, LI1169, AL13061 |  |

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

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| **Intended use** | Deck Sealant, Bedding Compound, General Sealant |  |
| **Application Method** | See Technical Data Sheet. |  |

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| **1.3. Details of the supplier of the safety data sheet** |

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| --- | --- |
| **Company Name** | Life Industries Corporation |
|  | 4060 Bridge View Drive |
|  | N. Charleston, SC 29405 |
| **Emergency** |  |
| **CHEMTREC (USA)** | (800) 424-9300 |
| **24 hour Emergency Telephone No.** | USA: 1-800-424-9300 Outside USA: +1-703-527-3887 |
| **Customer Service: Life Industries Corporation** | +1-843-566-1225 |

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| **2. Hazard(s) identification** |

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| **2.1. Classification of the substance or mixture** |

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| Repr. 1;H360 | May damage fertility or the unborn child. |
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| **2.2. Label elements** |
| Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows. |
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| **Danger** |

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| H360 May damage fertility or the unborn child. |

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| **[Prevention]:** |
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| P201 Obtain special instructions before use. |
| P202 Do not handle until all safety precautions have been read and understood. |
| P281 Use personal protective equipment as required. |
| **[Response]:** |
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| P308+313 IF exposed or concerned: Get medical advice / attention. |
| **[Storage]:** |
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| P405 Store locked up. |
| **[Disposal]:** |
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| P501 Dispose of contents / container in accordance with local / national regulations. |

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| **3. Composition/information on ingredients** |

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| This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations. |

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| **Ingredient/Chemical Designations** | **Weight %** | **GHS Classification** | **Notes** |
| **Dibutyltin dilaurate    CAS Number:     0000077-58-7** | **0.10 - 1.0** | **Acute Tox. 4;H302  Acute Tox. 4;H312  Skin Irrit. 2;H315  Eye Irrit. 2;H319  Acute Tox. 3;H301  STOT RE 2;H373  Aquatic Chronic 1;H410  Repr. 1;H360  Muta. 2;H341** | **[1]** |

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| In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret. [1] Substance classified with a health or environmental hazard. [2] Substance with a workplace exposure limit. [3] PBT-substance or vPvB-substance. \*The full texts of the phrases are shown in Section 16. |

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| **4. First aid measures** |

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| **4.1. Description of first aid measures** |

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| **General** | In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. |
| **Inhalation** | Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth. |
| **Eyes** | Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention. |
| **Skin** | Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. |
| **Ingestion** | If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting. |

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| **4.2. Most important symptoms and effects, both acute and delayed** |

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| **Overview** | Eyes: May cause irritation.   Skin: May cause irritation.  Ingestion: Not known.  Inhalation: Inhalation is not an expect hazard unless misted or heated to high temperatures  Chronic Health Hazards: No information found.  Medical Conditions Generally Aggravated by Exposure: NA  See section 2 for further details. |
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| **5. Fire-fighting measures** |

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| **5.1. Extinguishing media** |

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| Recommended extinguishing media; alcohol resistant foam, CO2, powder. Do not use: water jet. |

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| **5.2. Special hazards arising from the substance or mixture** |

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| Hazardous decomposition: Sulfur oxides (Contact with water could product sulfuric acid; this is only a concern for large amounts of material engulfed in flames). |

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| **5.3. Advice for fire-fighters** |

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| In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.   Not considered to be an explosion hazard. |

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| **ERG Guide No.** | ---- |

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| **6. Accidental release measures** |

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| **6.1. Personal precautions, protective equipment and emergency procedures** |

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| Put on appropriate personal protective equipment (see section 8). |

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| **6.2. Environmental precautions** |

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| Do not allow spills to enter drains or waterways. |
| Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse. |

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| **6.3. Methods and material for containment and cleaning up** |

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| Confine spill and place in a closed container. Wipe up excess with dry rags and place in a closed container. |

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| **7. Handling and storage** |

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| **7.1. Precautions for safe handling** |
| BE SURE TO HAVE PROPER VENTILATION TO MINIMIZE EXPOSURE TO VAPORS.  Avoid contact with skin and eyes by using personal protective equipment. |
| See section 2 for further details. - [Prevention]: |

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| **7.2. Conditions for safe storage, including any incompatibilities** |
| Handle containers carefully to prevent damage and spillage. |
| Incompatible materials: Strong oxidizing agents. |
| Product is moisture sensitive (store in a dark, DRY place). |
| See section 2 for further details. - [Storage]: |

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| **7.3. Specific end use(s)** |
| No data available. |

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| **8. Exposure controls and personal protection** |

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| **8.1. Control parameters** |
| **Exposure** |

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| **CAS No.** | **Ingredient** | **Source** | **Value** |
| 0000077-58-7 | Dibutyltin dilaurate | OSHA | No Established Limit |
| ACGIH | No Established Limit |
| NIOSH | No Established Limit |
| Supplier | No Established Limit |

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| **Carcinogen Data** |

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| --- | --- | --- | --- |
| **CAS No.** | **Ingredient** | **Source** | **Value** |
| 0000077-58-7 | Dibutyltin dilaurate | OSHA | Select Carcinogen: No |
| NTP | Known: No;  Suspected: No |
| IARC | Group 1: No;  Group 2a: No;  Group 2b: No;  Group 3: No;  Group 4: No; |

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| **8.2. Exposure controls** |  |
| **Respiratory** | Not generally required. |
| **Eyes** | Goggles should be worn. |
| **Skin** | PVC or rubber gloves. |
| **Engineering Controls** | Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn. |
| **Other Work Practices** | Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse. |

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| See section 2 for further details. - [Prevention]: |

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| **9. Physical and chemical properties** |

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| **Appearance** | Thick Clear Paste |  |
| **Odor** | Mild |  |
| **Odor threshold** | Not Measured |  |
| **pH** | Not Measured |  |
| **Melting point / freezing point** | Not Measured |  |
| **Initial boiling point and boiling range** | Not Measured |  |
| **Flash Point** | Not Measured |  |
| **Evaporation rate (Ether = 1)** | Not Measured |  |
| **Flammability (solid, gas)** | Not Applicable |  |
| **Upper/lower flammability or explosive limits** | **Lower Explosive Limit:** Not Measured |  |
|  | **Upper Explosive Limit:** Not Measured |  |
| **Vapor pressure (Pa)** | Not Measured |  |
| **Vapor Density** | Not Measured |  |
| **Specific Gravity** | Not Measured |  |
| **Solubility in Water** | Insoluble |  |
| **Partition coefficient n-octanol/water (Log Kow)** | Not Measured |  |
| **Auto-ignition temperature** | Not Measured |  |
| **Decomposition temperature** | Not Measured |  |
| **Viscosity (cSt)** | Not Measured |  |
| **% Volatile** | 2% |  |

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| **9.2. Other information** |
| **CARB Product Category:** Chemically curing Sealant <3.0% VOC W/W |

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| **10. Stability and reactivity** |

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| **10.1. Reactivity** |
| Hazardous Polymerization will not occur. |
| **10.2. Chemical stability** |
| Stable under normal circumstances. |
| **10.3. Possibility of hazardous reactions** |
| No data available. |
| **10.4. Conditions to avoid** |
| No data available. |
| **10.5. Incompatible materials** |
| Strong oxidizing agents. |
| **10.6. Hazardous decomposition products** |
| Sulfur oxides (Contact with water could product sulfuric acid; this is only a concern for large amounts of material engulfed in flames). |

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| **11. Toxicological information** |

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| **Acute toxicity** |
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| **Ingredient** | **Oral LD50,  mg/kg** | **Skin LD50,  mg/kg** | **Inhalation  Vapor LC50,  mg/L/4hr** | **Inhalation Dust/Mist LC50,  mg/L/4hr** | **Inhalation Gas LC50,  ppm** |
| Dibutyltin dilaurate - (77-58-7) | 2,000.00, Rat - Category: 4 | No data available | No data available | No data available | No data available |

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| Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate). |

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| **Classification** | **Category** | **Hazard Description** |
| Acute toxicity (oral) | --- | Not Applicable |
| Acute toxicity (dermal) | --- | Not Applicable |
| Acute toxicity (inhalation) | --- | Not Applicable |
| Skin corrosion/irritation | --- | Not Applicable |
| Serious eye damage/irritation | --- | Not Applicable |
| Respiratory sensitization | --- | Not Applicable |
| Skin sensitization | --- | Not Applicable |
| Germ cell mutagenicity | --- | Not Applicable |
| Carcinogenicity | --- | Not Applicable |
| Reproductive toxicity | 1 | May damage fertility or the unborn child. |
| STOT-single exposure | --- | Not Applicable |
| STOT-repeated exposure | --- | Not Applicable |
| Aspiration hazard | --- | Not Applicable |

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| **12. Ecological information** |

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| **12.1. Toxicity** |
| No additional information provided for this product. See Section 3 for chemical specific data. |
| **Aquatic Ecotoxicity** |
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| --- | --- | --- | --- |
| **Ingredient** | **96 hr LC50 fish,  mg/l** | **48 hr EC50 crustacea,  mg/l** | **ErC50 algae,  mg/l** |
| Dibutyltin dilaurate - (77-58-7) | 2.00, Leuciscus idus | 0.66, Daphnia magna | Not Available |

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| **12.2. Persistence and degradability** |
| There is no data available on the preparation itself. |
| **12.3. Bioaccumulative potential** |
| Not Measured |
| **12.4. Mobility in soil** |
| No data available. |
| **12.5. Results of PBT and vPvB assessment** |
| This product contains no PBT/vPvB chemicals. |
| **12.6. Other adverse effects** |
| No data available. |

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| **13. Disposal considerations** |

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| **13.1. Waste treatment methods** |
| Observe all federal, state and local regulations when disposing of this substance. |

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| **14. Transport information** |

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|  | **DOT (Domestic Surface Transportation)** | **IMO / IMDG (Ocean Transportation)** | **ICAO/IATA** |
| **14.1. UN number** | Not Applicable | Not Regulated | Not Regulated |
| **14.2. UN proper shipping name** | Not Regulated | Not Regulated | Not Regulated |
| **14.3. Transport hazard class(es)** | **DOT Hazard Class:** Not Applicable | **IMDG:** Not Applicable **Sub Class:** Not Applicable | **Air Class:** Not Applicable |
| **14.4. Packing group** | Not Applicable | Not Applicable | Not Applicable |

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| **14.5. Environmental hazards** |

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| **IMDG** | Marine Pollutant: No |
| **14.6. Special precautions for user** | |
|  | No further information |

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| **15. Regulatory information** |

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| **Regulatory Overview** | The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. |
| **Toxic Substance Control Act ( TSCA)** | All components of this material are either listed or exempt from listing on the TSCA Inventory. |
| **WHMIS Classification** | D2A |

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| --- | --- | --- |
| **US EPA Tier II Hazards** | **Fire:** | No |
|  | **Sudden Release of Pressure:** | No |
|  | **Reactive:** | No |
|  | **Immediate (Acute):** | No |
|  | **Delayed (Chronic):** | No |

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| **EPCRA 311/312 Chemicals and RQs:**  To the best of our knowledge, there are no chemicals at levels which require reporting under this statute. |

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| **EPCRA 302 Extremely Hazardous:**  To the best of our knowledge, there are no chemicals at levels which require reporting under this statute. |

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| **EPCRA 313 Toxic Chemicals:**  To the best of our knowledge, there are no chemicals at levels which require reporting under this statute. |

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| **Proposition 65 - Carcinogens (>0.0%):**  To the best of our knowledge, there are no chemicals at levels which require reporting under this statute. |

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| **Proposition 65 - Developmental Toxins (>0.0%):**  To the best of our knowledge, there are no chemicals at levels which require reporting under this statute. |

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| **Proposition 65 - Female Repro Toxins (>0.0%):**  To the best of our knowledge, there are no chemicals at levels which require reporting under this statute. |

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| **Proposition 65 - Male Repro Toxins (>0.0%):**  To the best of our knowledge, there are no chemicals at levels which require reporting under this statute. |

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| **New Jersey RTK Substances (>1%) :**  To the best of our knowledge, there are no chemicals at levels which require reporting under this statute. |

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| **Pennsylvania RTK Substances (>1%) :**  To the best of our knowledge, there are no chemicals at levels which require reporting under this statute. |

**California CARB Category:**

Chemically Curing Sealant <3.0% VOC

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| **16. Other information** |

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| The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders. |

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| The full text of the phrases appearing in section 3 is: |

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| H301 Toxic if swallowed. |

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| H302 Harmful if swallowed. |

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| H312 Harmful in contact with skin. |

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| H315 Causes skin irritation. |

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| H319 Causes serious eye irritation. |

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| H341 Suspected of causing genetic defects. |

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| H360 May damage fertility or the unborn child. |

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| H373 May cause damage to organs through prolonged or repeated exposure. |

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| H410 Very toxic to aquatic life with long lasting effects. |

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| **This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.** |

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| DISCLAIMER: The information and recommendations contained herein are based upon data believed to be correct. Life Industries Corporation assumes no liability for misinterpretation of the data contained within this form as any type of warranty or guarantee of the product. |

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| End of Document |