

## 1. Identification

Product Identifier: **TinSil® 70-10 Silicone Rubber Part A**  
**TinSil® 70-11 Silicone Rubber Part A**  
**TinSil® Gel-10 Silicone Rubber Part A**  
**TinSil® Spray 25 Silicone Rubber Part A**

Product Code(s): 7010A, 7011A, TINGEL10A, TINSPRAY25A

Use: Component for silicone mold rubber. For Industrial/Professional use only.

Manufacturer: Polytek Development Corp.  
 55 Hilton St., Easton, PA 18042

Phone Number: 610-559-8620 (9 a.m. to 5 p.m. EST)

Emergency Phone: CHEMTREC 800-424-9300 or  
 +1 (703) 527-3887

E-mail: [sds@polytek.com](mailto:sds@polytek.com)

## 2. Hazards Identification

### GHS Classification:

Flammable Liquid Category 4  
 Acute Toxicity – Oral Category 5  
 Eye Damage/Irritation Category 2A  
 Germ Cell Mutagenicity 2  
 Toxic to Reproduction Category 1B  
 Specific Target Organ Toxicity – Repeated Exposure Category 1  
 Aquatic Toxicity - Acute Category 2  
 Aquatic Toxicity - Chronic Category 2

Label Elements: Danger



### Hazard Phrases

H227 Combustible liquid.  
 H303 May be harmful if swallowed.  
 H319 Causes serious eye irritation.  
 H341 Suspected of causing genetic defects.  
 H360 May damage fertility or the unborn child.  
 H372 Causes damage to organs (immune system) through prolonged or repeated exposure.  
 H411 Toxic to aquatic life with long-lasting effects.

### Precautionary Phrases

P201 Obtain special instructions before use.  
 P210 Keep away from flames and hot surfaces, – No smoking.  
 P260 Do not breathe vapors.  
 P264 Wash hands and contacted areas thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves and eye protection.  
 P301+310 IF SWALLOWED: Call a poison center or doctor if you feel unwell.  
 P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308+313 If exposed or concerned: Get medical attention.  
 P391 Collect spillage.  
 P403+235 Store in a well-ventilated place. Keep cool.  
 P501 Dispose of contents and container in accordance with local, regional and national regulations.

**Supplemental Information:** May cause skin irritation.

## 3. Composition/Information on Ingredients

Chemical Name	CAS #	GHS Classification	%
Tetraethyl orthosilicate	78-10-4	Flammable Liquid 3 Acute Tox-Inhal 4 Eye Damage/Irrit 2A STOT-SE 3	5-15
Dibutyltin dilaurate	77-58-7	Acute Tox-Oral 3 Skin Corr/Irrit 2 Eye Damage/Irrit 2A Mutagenicity 2 Reproductive Tox 1B STOT-RE 1 Aquatic Acute 1 Aquatic Chronic 1	3-6
Other ingredients are not classified as health and/or environmental hazards, and/or are present below cut-off/concentration limits.			

## 4. First-Aid Measures

**Eye Contact:** Rinse thoroughly with water, holding the eyelids open to be sure the material is washed out. Remove contact lenses, if present and easy to do. Continue rinsing for 15 minutes. Get medical attention if irritation develops and persists.

**Skin Contact:** Wash contact area thoroughly with soap and water. Get medical attention if irritation develops and persists.

**Inhalation:** If breathing is difficult, remove person to fresh air. If experiencing difficulty breathing, call a doctor.

**Ingestion:** If swallowed, rinse mouth. Drink water. Induce vomiting only with medical supervision.

**Most Important Symptoms/Effects:** Possible reproductive and/or organ damage.

**Indication of Immediate Medical Attention/Special Treatment:** Not expected to be required.

## 5. Fire-Fighting Measures

**Extinguishing Media:** Carbon dioxide, dry chemical, foams, or water spray.

**Specific Hazards:** Not classified as flammable. May generate formaldehyde in fire conditions.

**Special Protective Equipment and Precautions for Fire-Fighters:** Wear SCBA & full-body protective suit. Cool hot containers with water.

## 6. Accidental Release Measures

### Personal Precautions, Protective Equipment and Emergency

**Procedures:** Remove ignition sources. Clear non-emergency personnel from the area. Caution: spill area may be slippery. Avoid eye and skin contact.

**Methods and Materials for Containment and Cleanup:** Contain spill and prevent/minimize release to the environment. Collect and containerize material for disposal.

## 7. Handling and Storage

**Safe Handling:** Avoid contact with eyes, skin and clothing. Use in a ventilated area. Wash hands after handling.

**Safe Storage:** Store indoors at temperatures between 60 and 95°F. Store in original containers. Avoid getting moisture into containers. Keep containers tightly closed.

## 8. Exposure Controls/Personal Protection

### Exposure Limits:

Tin, organic compounds	0.1 mg/m <sup>3</sup> OSHA PEL 0.1 mg/m <sup>3</sup> TWA ACGIH TLV 0.2 mg/m <sup>3</sup> STEL ACGIH TLV
Tetraethyl orthosilicate	850 mg/m <sup>3</sup> (100 ppm) OSHA PEL 85 mg/m <sup>3</sup> (10 ppm) TWA ACGIH TLV

**Engineering Controls:** Provide general exhaust.

**Personal Protective Equipment:** Wear eye protection (e.g., chemical safety glasses) and rubber (e.g., nitrile) gloves.

**Other Protective Measures:** An eyewash and washing facility should be available in the work area.

## 9. Physical and Chemical Properties

**Appearance:** 70-10A and 70-11A Blue/green liquids; TinSil Gel-10 and TinSil Spray25 are colorless liquids.

**Odor:** Mild

**Odor Threshold:** No data available

**pH:** Not applicable

**Melting Point:** No data available

**Boiling Point:** No data available

**Flash Point:** >150°F (66°C) (estimated)

**Evaporation Rate:** No data available

**Flammable Limits:** No data available

**Vapor Pressure:** No data available

**Vapor Density:** No data available

**Relative Density:** 1.0 @ 25°C

**Solubility:** Insoluble in water

**Partition Coefficient: n-octanol/Water:** No data available

**Auto-Ignition Temp:** No data available

**Decomposition Temp:** No data available

**Viscosity:** 50-100 cP @ 25°C

## 10. Stability and Reactivity

**Reactivity:** Not normally reactive.

**Chemical Stability:** Stable under recommended conditions.

**Possibility of Hazardous Reactions:** None known.

**Conditions to Avoid:** Excessive heat.

**Incompatible Materials:** Possibly strong oxidizers.

**Hazardous Decomposition Products:** Thermal decomposition will generate formaldehyde and oxides of carbon and silicon.

## 11. Toxicological Information

**Eye Contact:** Causes serious eye irritation.

**Skin Contact:** May cause skin irritation.

**Inhalation:** Vapors or mists may cause mild respiratory irritation.

**Ingestion:** Harmful if swallowed.

**Chronic Health Effects:** Possible reproductive and immune system effects.

**Acute Toxicity Values:** For dibutyltin dilaurate, LD50-Oral 175 mg/kg (rat). Calculated LD50-Oral for mixtures >2000 mg/kg.

**Germ Cell Mutagenicity:** Dibutyltin dilaurate is suspected of causing genetic defects.

**Carcinogenicity:** Relevant components are not listed as known or suspected carcinogens by NTP, IARC or OSHA.

**Reproductive Toxicity:** Dibutyltin dilaurate may damage fertility or the unborn child.

**Specific Target Organ Toxicity:** Dibutyltin dilaurate causes damage to organs (immune system) through prolonged or repeated exposure.

## 12. Ecological Information

**Ecotoxicity:** For dibutyltin dilaurate, EC50 Daphnia is 0.463 mg/l. Based on Summation Method, mixture is judged to be Hazardous to the Aquatic Environment (Acute Category 2, Chronic Category 2).

**Persistence and Degradability:** Dibutyltin dilaurate is not readily biodegradable.

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** No data available.

## 13. Disposal Considerations

Dispose according to local, regional and national regulations.

**For U.S.:** Upon disposal, these products are not RCRA hazardous waste (per 40 CFR 261).

## 14. Transport Information

**U.S.:** Not regulated as a hazardous material by US DOT for transportation by truck.

**International shipments:** UN3082, Environmentally hazardous substance, liquid, n.o.s. (dibutyltin dilaurate), 9, III. Containers ≤5 liters are exempted from IMDG and IATA regulations (see IATA SP A197 and IMDG 2.10.2.7).

**Emergency Shipping Information:** Call CHEMTREC, 800-424-9300 or +1-703-527-3887

## 15. Regulatory Information

### U.S. FEDERAL REGULATIONS:

**CERCLA 103 Reportable Quantity:** Not subject to reporting under CERCLA. Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

### SARA TITLE III:

**Hazard Category for Section 311/312:** Acute/Chronic

**Section 313 Toxic Chemicals:** Does not contain chemicals subject to SARA Title III Section 313 Reporting requirements.

**Section 302 Extremely Hazardous Substances (TPQ):** None

**EPA Toxic Substances Control Act (TSCA) Status:** All components are listed on TSCA.

### STATE REGULATIONS:

**California Proposition 65:** This product does not contain substances known to the State of California to cause cancer and/or reproductive harm.

## 16. Other Information

**Training Advice:** All personnel using/handling these products should be trained in proper chemical handling and the need for and use of engineering controls and protective equipment.

**Recommended Uses and Restrictions:** For industrial or professional use only.

**SDS Revision Notes:** New GHS SDS; Feb. 10, 2015. Replaces Feb. 3, 2011 version.

**Disclaimer:** The information contained herein is considered accurate; however, Polytek® makes no warranty regarding the accuracy of the information. The user must determine the suitability of the product for the intended use and accepts all risk and liability associated with that use.