

## 1. Identification of the Preparation and Company

Trade Name: **TinSil® Silicone RTV Rubber Part A** (with product codes below)  
 Product Code: TinSil Gel-10A, 70-11A, 70-20A, 70-25A, Spray 25A  
 Use of Preparation: Part A of two-part liquid silicone rubber system  
 Chemical Class: Silicone  
 Company: Polytek Development Corp.  
 55 Hilton St. Easton, PA 18042 USA  
 Telephone: 610-559-8620  
[SDS@polytek.com](mailto:SDS@polytek.com)  
 EU Only Representative: Stewardship Solutions  
 Green Lowe Farm, Shawclough Rd  
 Waterfoot, Rossendale, Lancs. BB4 9SA, UK  
 Telephone: (+44) 01706 220901  
 Emergency Telephone: 610-559-8620 (9 am to 5 pm EST)

## 2. Hazards Identification

HAZARD CLASSIFICATION: Irritant, Xi;  
 Dangerous for Environment, N  
 R36/37/38- Irritating eyes, respiratory system and skin  
 R53 – May cause long-term adverse effects in the aquatic environment.



## 3. Composition/Information on Ingredients

Chemical Name	EINECS Number	% of Product	Hazard Classification
Organotin compound	201-039-8	0-10%	Xn, Xi; R36/38-48/22 N; R50/53
Ethyl silicate	201-083-8	5-20%	Xn, Xi; R10-20-36/37
Alkoxysilane	Mixture	70-90%	None

## 4. First-Aid Measures

EYE CONTACT: Flush with water for 15 minutes. Seek medical attention if symptoms persist.  
 SKIN CONTACT: Wipe off. Remove contaminated clothing and/or shoes. Wash with soap and warm water.  
 INHALATION: Remove to fresh air. Seek medical attention if symptoms develop.  
 INGESTION: Seek medical attention. Do not induce vomiting unless so directed by a medical professional.

## 5. Fire-Fighting Measures

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, or water fog or fine spray.  
 THERMAL DECOMPOSITION PRODUCTS: May include carbon monoxide, carbon dioxide, silicone oxides, tin compounds and organic compounds.  
 OTHER INFORMATION: Firefighters wear full-face positive pressure breathing apparatus and full chemical protective suit. Violent steam generation or eruption may occur upon application of water stream to hot product.

## 6. Accidental Release Measures

Clear non-emergency personnel from the area. Avoid contact with sources of ignition. Spill response personnel wear protective clothing to prevent eye and skin contact (see Section 8). Contain spill to minimize environmental contamination. Absorb spilled material with an absorbent such as sand or earth. Collect and containerize material. Dispose of contaminated materials in accordance with applicable regulations.

## 7. Handling and Storage

HANDLING: Avoid breathing vapor. Use in adequately ventilated area. Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke in work area. Wash hands after handling. See also Section 8 of MSDS.

STORAGE: Store at room temperature in a dry, well-ventilated area. Do not store above 40°C. Store in tightly closed container.

## 8. Exposure Controls/Personal Protection

ENGINEERING CONTROLS: Provide general and/or local exhaust.

MAXIMUM AIRBORNE EXPOSURE LIMITS: UK EH-40 Occupational Exposure Limits

Substance	8-hr TWA	Short-Term Limit (15-min)
Ethyl silicate	10 ppm	20 ppm
Organic tin compound	0.1 mg/m <sup>3</sup>	0.2 mg/m <sup>3</sup>

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: Maintain airborne concentrations below established limits for Part A through ventilation and procedural controls. If air concentrations may exceed exposure limits, use a respirator equipped with organic vapor cartridges. If concentrations are unknown or in emergencies, use positive-pressure air-supplied respirator.

HAND: Wear chemical-resistant, rubber gloves (such as butyl, nitrile or latex).

EYES: Wear chemical safety glasses or goggles.

SKIN: Wear chemical-resistant apron. Remove contaminated clothing immediately.

## 9. Physical & Chemical Properties

APPEARANCE: Blue to green liquids; except TinSil Gel-10A is slightly yellow, clear liquid; and Spray 25A is translucent, colorless liquid.

ODOUR: Mild solvent odour

pH: Not applicable

BOILING POINT: >200°C (estimated)

FLASH POINT: >60°C

AUTOFLAMMABILITY: No data available

EXPLOSIVE PROPERTIES: Not explosive

OXIDISING PROPERTIES: Not an oxidizer

VAPOUR PRESSURE: <1.0 mm Hg @ 20°C

RELATIVE VAPOUR DENSITY (Air=1): Not determined

SPECIFIC GRAVITY: ~1.0 @ 25°C

SOLUBILITY IN WATER: Insoluble

SOLUBILITY IN SOLVENT: Soluble

## 10. Stability and Reactivity

CHEMICAL STABILITY: Stable under recommended storage conditions.

CONDITIONS TO AVOID: Temperatures <24°C and >40°C. Avoid moisture for product integrity.

INCOMPATIBILITIES: Avoid contact with oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Depends on temperature, air supply and presence of other materials: may include carbon monoxide and carbon dioxide, silicone oxides, tin compounds and organic compounds.

## 11. Toxicological Information

SKIN: Prolonged skin contact may cause skin irritation.

EYES: May cause eye irritation.

INHALATION: At room temperature, vapors are minimal due to low volatility. Heating or spraying may cause vapor or aerosols in sufficient concentration to cause respiratory irritation.

INGESTION: Ingestion may induce harmful gastrointestinal effects.

CHRONIC EFFECTS: None known.

CARCINOGENICITY: Not expected to be carcinogenic.

DEVELOPMENTAL TOXICITY: Not expected to cause developmental toxicity.

## 12. Ecological Information

ECOTOXICITY: No formal data is available; but product should not be allowed to enter watercourses based on data available for ingredients such as organotin compound.

Data for Organotin compound:

LC 50, 96-hr, fish:	2 mg/l
EC 50, 48-hr, Daphnia:	0.66 mg/l

## 13. Disposal Considerations

Dispose of in accordance with all applicable regulations.

## 14. Transport Information

BY TRUCK: Not regulated\*

BY SHIP: Per IMDG Code, UN3082, Environmentally hazardous substance, liquid, n.o.s. (organotin compound), 9, III, MARINE POLLUTANT

\*Although one constituent, ethyl silicate, is on its own flammable, the flashpoint for this product is >60°C, and, therefore, it is not regulated as a flammable liquid for transportation.

## 15. Regulatory Information

HAZARD SYMBOL: Xi, N

RISK PHRASES: R36/37/38. N53

REACH: Substances in this formulation for which export is >1 tonne/yr to EU were pre-registered with ECHA prior to Dec. 1, 2008

## 16. Other Information

RISK PHRASES:

Listed below are all R phrases relevant to constituents in this product if presented in their pure form. Risk phrases deemed appropriate for this mixture are stated in Section 2.

R10 - Flammable

R20 - Harmful by inhalation

R22 - Harmful if swallowed

R36/37/38 - Irritating eyes, respiratory system and skin

R48 - Danger of serious damage to health by prolonged exposure

R50 - Very toxic to aquatic organisms.

R53 - May cause long-term adverse effects in the aquatic environment.

SAFETY PHRASES:

S24/25 - Avoid contact with the skin and eyes

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S28 - After contact with skin, wash immediately with water or industrial hand cleaner

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)

OTHER PHRASES:

Keep containers tightly closed when not in use

TRAINING ADVICE: All personnel using/handling this product should be trained in proper chemical handling and the need for and use of control measures including protective equipment.

RECOMMENDED USES AND RESTRICTIONS: This product is intended for industrial use only. Further details of intended applications and guidance relating to technical aspects of use are contained in the relevant Technical Bulletin/Advice sheet.

REFERENCES:

Manufacturers' SDSs and Technical Bulletins

REVISION INDICATOR: Revised EU version. Added TinSil Gel-10 A and Spray 25 A. EU Version 1.1.

DISCLAIMER: The information contained herein has been compiled from data that is, to the best of our knowledge, valid at the date of issue. However, as the conditions under which the product is used are not under our control, the user is responsible to ensure that a risk assessment is undertaken in accordance with current legislation and that all necessary precautions are employed.