

## Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

### 1.1 Product Identifier: PlatSil FS-20 Silicone Rubber Part A

Product Code(s): FS20A

**1.2 Relevant Identified Uses of the Substance or Mixture:** Component for Silicone Mold Rubber. For Industrial/Professional use only.

### 1.3 Details of the Supplier of the Safety Data Sheet

**Manufacturer:**

Polytek Development Corp.  
55 Hilton St., Easton, PA 18042 USA  
Phone: 800-858-5990 (8 a.m. to 6:30 p.m. EST)  
E-mail: [sds@polytek.com](mailto:sds@polytek.com)

**1.4 Emergency Telephone Number:** CHEMTREC (+1) 703-527-3887

**National Poison Center Phone Numbers:**

**France:** French National Products and Composition Database (B.N.P.C.): +33 3 83 85 21 92  
*Réservé au personnel d'intervention d'urgence professionnel enc as de catastrophe.*

**Germany:** BfR Bundesinstitut für Risikobewertung: +49-30-18412-0  
*Nur für professionelle Einsatzkräfte im Katastrophenfall.*

**Spain:** Instituto Nacional de Toxicología y Ciencias Forenses (INTCF): +34 917689800  
*Solo para personal profesional de respuesta a emergencias en caso de calamidades.*

## Section 2: Hazards Identification

### 2.1 Classification of the Substance or Mixture:

**CLP/GHS (No 1272/2008):** Hazardous to the Aquatic Environment – Chronic Hazard Category 3 (H412)

### 2.2 Label Elements: None

**Contains:** Octamethylcyclotetrasiloxane

**Hazard Phrases**

H412 Harmful to aquatic life with long lasting effects.

**Precautionary Phrases**

P273 Avoid release to the environment.

P501 Dispose of contents and container in accordance with local, regional and national regulations.

**Supplemental Information:** This is one part of a two-part system. Read and understand the hazard information on Part B before using.

**Unknown Acute Toxicity:** 81.52% of the mixture contains ingredient(s) of unknown Oral and Dermal toxicity  
100% of the mixture contains ingredients of unknown Inhalation toxicity

**Unknown Hazards to the Aquatic Environment:** 99.97% of the mixture contains ingredient(s) of unknown hazards to the aquatic environment.

### 2.3 Other Hazards:

Based on available data, this product does not contain PBT and/or vPvB substances  $\geq 0.1\%$  in accordance with REACH Annex XIII.

Based on available data, this product does not contain substances  $\geq 0.1\%$  that have endocrine disrupting properties in accordance with REACH Article 59(1) and Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

**Section 3: Composition/Information on Ingredients**
**3.2 Mixtures**

Chemical Name	CAS #	EINECS #	CLP Annex VI Classification	%
Octamethylcyclotetrasiloxane	556-67-2	209-136-7	Reproductive Toxin – Category 2 (H361f) Hazardous to the Aquatic Environment – Chronic Category 1 (H410)  M(Chronic) = 10	0 - 0.05
Exact concentrations are withheld as trade secret. Other ingredients are not listed because they are either not hazardous or are below concentration/cut-off thresholds.				

**Section 4: First-Aid Measures**
**4.1 Description of First Aid Measures:**

**Eye:** Rinse thoroughly with water for at least 15 minutes, holding the eyelids open to be sure the material is washed out. Get medical attention if irritation develops or persists.

**Skin:** Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention if irritation develops or persists.

**Inhalation:** Remove person to fresh air. Give artificial respiration if needed. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical if symptoms develop or persist.

**Ingestion:** Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if you feel unwell.

**4.2 Most important symptoms and effects, both acute and delayed:** None known.

**4.3 Indication of any immediate medical attention and special treatment needed:** Not expected to be required.

**Section 5: Fire-Fighting Measures**

**5.1 Suitable Extinguishing Media:** Use water fog, foam, carbon dioxide or dry chemical.

**Unsuitable Extinguishing Media:** Do not use solid water stream. Solid stream of water into hot product may cause violent steam generation or eruption.

**5.2 Special Hazards Arising from the Substance or Mixture**

**Unusual Fire and Explosion Hazards:** Not classified as flammable or combustible. Product will burn under fire conditions.

**Combustion Products:** Oxides of carbon and nitrogen, isocyanates, hydrogen cyanide, dense smoke.

**5.3 Advice for Fire-Fighters:** Wear an approved, positive pressure, self-contained breathing apparatus and full-body protective clothing. Cool fire-exposed containers with water.

**Section 6: Accidental Release Measures**

**6.1 Personal Precautions, Protective Equipment and Emergency Procedures:**

**6.1.1: Non-Emergency Personnel:** Remove all ignition sources. Clear other non-emergency personnel from the area. Wear appropriate protective clothing to avoid eye and skin contact and avoid breathing of vapors. Ventilate area. Caution – spill area may be slippery.

**6.1.2: Emergency Personnel:** Remove all ignition sources. Clear non-emergency personnel from the area. Wear appropriate protective clothing to avoid eye and skin contact and avoid breathing of vapors. Ventilate area. Caution – spill area may be slippery.

**6.2 Environmental Precautions:** Avoid release to the environment. Report spills and releases as required to appropriate authorities.

**6.3 Methods and Material for Containment and Cleaning Up:**

**6.3.1: Containment:** Cover with an inert absorbent material and collect into an appropriate container for disposal.

**6.3.2: Clean-up:** Decontaminate floor area with a mixture of soap and water.

**6.3.3: Other Information:** No additional information available.

**6.4 Reference to Other Sections:** Refer to Section 8 for protective clothing and Section 13 for disposal.

**Section 7: Handling and Storage**

**7.1 Precautions for Safe Handling:** Avoid breathing fumes, vapors, mists or sprays. Use with adequate ventilation. Avoid contact with the eyes, skin and clothing. Wash thoroughly after handling. Do not eat, drink or smoke in the work area. Keep container closed when not in use.

**7.2 Conditions for Safe Storage, Including any Incompatibilities:** Store indoors at temperatures between 12°C and 35°C (55°F and 95°F). Store in original, unopened containers.

**7.3 Specific end use(s):** None identified

**Section 8: Exposure Controls/Personal Protection**
**8.1 Control Parameters:**
**Workplace/Occupational Exposure Limits:**

Polydimethyl siloxane (CAS 63148-62-9)	
<b>Romania</b>	
OEL TWA	10 mg/m <sup>3</sup>
OEL STEL	80 mg/m <sup>3</sup>
2,4,6,8-Tetravinyl-2,4,6,8-tetramethylcyclotetrasiloxane (CAS 2554-06-5)	
<b>Romania</b>	
OEL TWA	30 mg/m <sup>3</sup>
OEL STEL	50 mg/m <sup>3</sup>

**Biological Exposure Index:** None Established

**Derived No Effect Level (DNEL):**

Octamethylcyclotetrasiloxane (CAS 556-67-2)	
Local	73 mg/m <sup>3</sup>
Systemic	73 mg/m <sup>3</sup>

**Predicted No Effect Concentration (PNEC):** None Established

**8.2 Exposure Controls:**
**8.2.1: Engineering Controls:** Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits. An eyewash facility and washing facility should be available in the work area.

**8.2.2: Individual Protection Measures**
**(a) Eye/Face Protection:** Wear chemical safety goggles.

**(b) Skin Protection:**
**(i) Hand Protection:** Use chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and micro-organisms. Suggested gloves are impervious and made of butyl rubber or nitrile rubber with a breakthrough time greater than 240 minutes with a protection class of 5 or higher and a thickness greater than 0.35 mm.

**(ii) Protective Clothing:** Wear impervious clothing of compatible material such as cotton to prevent skin contact and contamination of personal clothing

**(c) Respiratory Protection:** If needed, an approved respirator with organic vapor cartridges may be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

**(d) Thermal Hazards:** Not classified as a flammable or combustible material.

**8.2.3. Environmental Exposure Controls:** Toxic to aquatic life with long lasting effects. Do not release into the environment.

**Section 9: Physical and Chemical Properties**
**9.1 Information on basic Physical and Chemical Properties**
**(a) Physical State:** Liquid

**(b) Colour:** Milky translucent

**(c) Odour:** None

**(d) Melting Point/Freezing Point:** No test data available

**(e) Boiling Point or Initial Boiling Point and Boiling Range:** No test data available

**(f) Flammability:** Not applicable

**(g) Lower and Upper Explosion Limit:** No test data available

**(h) Flash Point:** >93.3°C (>200°F) (estimated)

**(i) Auto-Ignition Temperature:** No test data available

**(j) Decomposition Temperature:** No test data available

**(k) pH:** Not applicable

**(l) Kinematic Viscosity:** 4,000 cps

**(m) Solubility:** Insoluble in water

- (n) **Partition Coefficient n-Octanol/Water (log value):** No test data available
- (o) **Vapour Pressure:** No test data available
- (p) **Density and/or Relative Density:** 1.10 @ 25°C
- (q) **Relative Vapour Density:** No test data available
- (r) **Particle Characteristics:** No test data available

**9.2 Other Information:**
**9.2.1. Information With Regard to Physical Hazard Classes:**

- (a) **Explosive Properties:** Not explosive
- (b) **Oxidizing Properties:** Not oxidizing

**9.2.2. Other Safety Characteristics:** None available

**Section 10: Stability and Reactivity**

- 10.1 Reactivity:** Not normally reactive.
- 10.2 Chemical Stability:** Stable under recommended conditions.
- 10.3 Possibility of Hazardous Reactions:** None known.
- 10.4 Conditions to Avoid:** Avoid excessive heat.
- 10.5 Incompatible Materials:** Avoid contact with strong oxidizers.
- 10.6 Hazardous Decomposition Products:** Thermal decomposition will generate formaldehyde and oxides of carbon and silicon.

**Section 11: Toxicological Information**
**11.1 Information on Toxicological Effects:**
**(a) Acute Toxicity:**

**Oral:** Not Classified (Based on available data, the classification criteria are not met)

**Dermal:** Not Classified (Based on available data, the classification criteria are not met)

**Inhalation:** Not Classified (Based on available data, the classification criteria are not met)

**(b) Skin Corrosion/Irritation:** Not Classified (Based on available data, the classification criteria are not met)

**(c) Serious Eye Damage/Irritation:** Not Classified (Based on available data, the classification criteria are not met)

**(d) Respiratory or Skin Sensitization:** Not Classified (Based on available data, the classification criteria are not met)

**(e) Germ Cell Mutagenicity:** Not Classified (Based on available data, the classification criteria are not met)

**(f) Carcinogenicity:** Not Classified (Based on available data, the classification criteria are not met)

**(g) Reproductive Toxicity:** Not Classified (Based on available data, the classification criteria are not met)

**(h) Specific Target Organ Toxicity – Single Exposure:** Not Classified (Based on available data, the classification criteria are not met)

**(i) Specific Target Organ Toxicity – Repeated Exposure:** Not Classified (Based on available data, the classification criteria are not met)

**(j) Aspiration Hazard:** Not Classified (Based on available data, the classification criteria are not met)

**11.2 Information on Other Hazards:** Based on available data, this product does not contain substances  $\geq 0.1\%$  that have endocrine disrupting properties in accordance with REACH Article 59(1) and Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

**Section 12: Ecological Information**

**12.1 Toxicity:** Harmful to aquatic life with long lasting effects. Avoid release to the environment.

<b>Octamethylcyclotetrasiloxane (CAS 556-67-2)</b>	
LC50 - Fish	>22 µg/L (Exposure time: 96 hr.) – Species: Oncorhynchus mykiss
EC50 – Crustacea	>15 µg/L (Exposure time: 48 hr.) – Species: Daphnia magna
EC50 – Algae	770 mg/L (Exposure time: 72hr. – Species: Pseudokirchnerella subcapitata)
<b>2,4,6,8-tetramethyl-2,4,6,8-tetravinylcyclotetrasiloxane (CAS 2554-06-5)</b>	
LC50 – Fish	>7.3 mg/L (Test organism species: Cyprinodoc variegatus)
NOEC chronic fish	$\geq 0.036$ mg/L (Test organism species: Pimephales promelas)

- 12.2 Persistence and Degradability:** Not established for product.
- 12.3 Bioaccumulative Potential:** Not established for product.
- 12.4 Mobility in Soil:** No information available.
- 12.5 Results of PBT and vPvB Assessment:** Based on available data, this product does not contain PBT and/or vPvB substances  $\geq$  0.1% in accordance with REACH Annex XIII.
- 12.6 Endocrine Disruption Properties:** Based on available data, this product does not contain substances  $\geq$  0.1% that have endocrine disrupting properties in accordance with REACH Article 59(1) and Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.
- 12.6 Other Adverse Effects:** No other known effects.

### Section 13: Disposal Considerations

#### 13.1 Waste Treatment Methods:

**Waste From Residues/Unused Products:** Dispose of contents and container in accordance with local, regional and national regulations.

**Contaminated Packaging:** Dispose of this container to a hazardous or special waste collection point.

**European Waste Catalogue (EWC):** According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

**Other Information:** Do not flush to sewer or empty into drains. Waste Codes should be assigned by the user based on the application for which the product was used.

### Section 14: Transport Information

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Transport Hazard Class(es)	14.4 Packing Group	14.5 Environmental Hazards
US DOT	None	Not Regulated	None	None	No
Canadian TDG	None	Not Regulated	None	None	No
EU ADR/RID	None	Not Regulated	None	None	No
IMDG	None	Not Regulated	None	None	No
IATA/ICAO	None	Not Regulated	None	None	No

**14.6 Special Precautions for User:** Do not handle until all safety precautions have been read and understood.

**14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable

### Section 15: Regulatory Information

#### 15.1 Safety, Health and Environment Regulations/Legislation Specific for the Substance or Mixture:

**REACH Registration:** Substances of this product imported to the EU in  $>1$  tonne/yr are pre-registered.

**REACH Annex XVII (Restriction List):** This product contains no substances listed on REACH Annex XVII (Restriction Conditions)

**REACH Annex XIV (Authorisation List):** This product contains no substances listed on REACH Annex XIV (Authorisation List).

**REACH Candidate List (SVHC):** This product contains no substances in listed on the REACH Candidate List in concentrations  $\geq 0.10\%$ .

**PIC Regulation (Prior Informed Consent):** This product contains no substances listed on the PIC List (Regulation EU 649/2012).

**POP Regulation (Persistent Organic Pollutants):** This product contains no substances listed on the POP List (Regulation EU 2019/1021).

**Ozone Regulation:** This product contains no substances listed on the Ozone Depletion List (Regulation EU 1005/2009).

**International Inventories:** To be determined

**15.2 Chemical Safety Assessment:** A Chemical Safety Assessment has not been conducted.

### Section 16: Other Information

**SDS Revision Note:** GHS/CLP SDS: May 21, 2025

#### Abbreviations and Acronym Key:

Canadian TDG: Canadian Transportation of Dangerous Goods

CAS: Chemical Abstracts Service

CLP: Classification, Labeling and Packaging

EU ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR)

DFG: German Research Foundation (Deutsche Forschungsgemeinschaft)

DNEL: Derived No Effect Limit

GHS: Globally Harmonized System

IATA/ICAO: International Air Transport Association

IBC Code: International Bulk Chemical Code

IMDG: International Maritime Dangerous Goods

MARPOL: Marine Pollution

PBT: Persistence Bioaccumulation and Toxicity.

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

SDS: Safety Data Sheet

SVHC: Substance of Very High Concern

vPvB: very Persistent and very Bio-accumulative

UFI: Unique Formula Identifier

US DOT: United States Department of Transportation

**Additional Hazard Statements:**

H361f Suspected of damaging fertility.

H410 Very toxic to aquatic life with long lasting effects.

**Key Literature References and Sources of Data:** Raw material safety data sheets, internal sources, and Regulation (EC) 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substance and mixtures, amending and repealing Directives 67/548/EE and 1999/45/EC, and amending Regulation (EC) 1907/2006.

**Method of Evaluating Information Referred to in Article 9 of Regulation (EC) No 1272/2008:** Calculation method was utilized.

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

**Disclaimer:** The information contained herein is considered accurate; however, Polytek® Development Corp. 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.