

MATERIAL SAFETY DATA SHEET

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SECTION 1 PRODUCT IDENTIFICATION

Product Name: **ParPhorm S1945**
General Name: Silicone

SECTION 2 COMPOSITION INFORMATION

<u>Components & CAS. No.</u>	<u>Weight %</u>	<u>Exposure Limits</u>
Polydimethylsiloxane with Functional Groups	100	Not Established
Cyclosiloxanes 69430-24-6	<2	Not Established

Note: Methyl alcohol may form upon contact with water or humid air. OSHA PEL TWA: 200 ppm; ACGIH TLV TWA (skin) 200 ppm; ACGIH STEL (skin) 250 ppm

SECTION 3 HAZARDS IDENTIFICATION

Emergency Overview: Dark grey paste with mild odor. May cause mild eye irritation. Refer to other sections of the MSDS for more detailed information.

Routes of Entry: Inhalation, skin and eye contact.

Acute Effects

Eye: Contact may cause mild eye irritation.

Skin: Prolonged or repeated contact may cause skin irritation.

Inhalation: No respiratory irritation is anticipated due to the low volatility of this product at room temperature. However, vapors generated at elevated temperatures may cause irritation of the mucous membranes and respiratory tract.

Ingestion: No information available.

Chronic Effects: None reported.

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Special Condition Effects:

This product may generate methanol on contact with water or moisture on skin, eyes and mucous membranes causing an irritating or defatting effect. Overexposure to methanol by inhalation or skin absorption may cause effects including: respiratory irritation and central nervous system effects progressing from headache, dizziness, staggering gait and confusion to unconsciousness, coma and death. The severity of these effects will be dependent on the methanol concentration and length of exposure.

When heated to temperatures above 150°C, in the presence of air, this product may form traces of formaldehyde. Formaldehyde is a potential cancer hazard, sensitizer and irritant. When handling at elevated temperatures, provide ventilation to control vapor exposure within OSHA guidelines. Review the OSHA Formaldehyde regulation for details.

Aggravated Medical Conditions: No data is available for this product.

SECTION 4 FIRST AID MEASURES

Handle in accordance with good industrial hygiene and safety practices by avoiding unnecessary exposure and by removing material from the eyes, skin and clothing.

- Eye: Immediately and thoroughly flush the eyes with large amounts of water occasionally lifting the upper and lower eyelids. Get medical attention if irritation persists.
- Skin: Remove contaminated clothing. Remove material from skin and wash area thoroughly with soap and water. Get medical attention if irritation persists.
- Inhalation: Remove to fresh air. Get medical attention if irritation persists or breathing becomes difficult.
- Ingestion: Get medical attention. Never give anything by mouth to an unconscious, drowsy or convulsing person.

SECTION 5 FIRE FIGHTING MEASURES

- Flash Point: Not established >200°F
- Autoignition Temp: >750°F.
- Flammability Limits: Not established.
- Extinguishing Media: Carbon dioxide, water, water foam, dry chemical.
- Fire Fighting Procedures: Use self-contained breathing apparatus and protective clothing. If large quantities of material are involved, evacuate area and fight fire from a safe distance.

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Unusual Fire Hazards: Flammable hydrogen gas may be generated by contact with incompatibles and under conditions mentioned in Section 10. Decomposition and combustion products may be toxic.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Spill response operations must be conducted in accordance with the provisions of 29 CFR 1910.120. Observe all recommendations identified in Sections 5 and 8.

Procedures: Limit access to spill area. Dike area to contain the release. Prevent release from entering sewers or waterways. Collect spill materials for reuse or salvage. Cover remaining spilled materials with inert material to absorb residue. Transfer liquids and absorbed materials to appropriate containers. Observe all applicable local, state and federal waste management regulations.

SECTION 7 HANDLING AND STORAGE

Handling: Avoid contact with eyes. Avoid prolonged or repeated skin contact. Minimize exposure by inhalation. Avoid exposure to vapors at elevated temperatures. Wash thoroughly after handling and before eating, drinking or smoking. Use with adequate ventilation.

Storage: Store in a cool dry location with adequate ventilation. Vent container to properly eliminate internal pressure. Keep away from open flame and heat sources. Prevent contact and storage with incompatible materials. Prevent build-up of static electricity by grounding and bonding all processing vessels and transfer equipment.

According to previous experience, the spontaneous combustion temperature for polymer siloxanes with SiH groups is above 464°F. Because empty containers may contain hydrogen gas, keep away from heat, spark, or other sources of ignition. Do not cut, weld, drill, grind on or near empty containers.

Contact with incompatibles and in conditions mentioned in Section 10 may generate flammable hydrogen gas.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

The recommendations described in this section are provided as general guidance for minimizing exposure. Because usage conditions vary with customer applications, specific exposure controls should be developed by a person knowledgeable in the intended usage condition and equipment.

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- Ventilation: Local exhaust ventilation should not be required. However, if the product is processed at elevated temperatures, provide local exhaust ventilation to capture vapors, mists or fumes generated by the process. Ventilation must be sufficient to maintain airborne levels of Section 2 ingredients below their exposure limits.
- Eyes: Wear safety eye wear including safety glasses with side shields and chemical goggles if splashing may occur.
- Skin: Wear protective gloves to minimize skin contact. Wash thoroughly after handling and before eating, drinking or smoking. Remove contaminated clothing or shoes and thoroughly clean before reuse.
- Inhalation: No respiratory protection should be required. However, use NIOSH/MSHA approved respiratory protection if adequate exhaust ventilation is not provided or air sampling indicates exposure limits are exceeded. The type of respirator selected will depend on the condition of use. Respiratory protection programs must comply with 29 CFR 1910.134.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

- Physical Form: Gray paste.
Specific Gravity: 0.75
Boiling Point: Not established.
Vapor Pressure (25°C): Negligible.
Vapor Density: Not established.
Solubility in Water: Insoluble.
Volatile Content (Wt%): Negligible.

SECTION 10 STABILITY AND REACTIVITY

- Chemical Stability: Stable.
- Hazardous Polymerization: Will not occur.
- Condition to Avoid: Avoid contact with water or alcohols, especially in the presence of acids or bases; flammable hydrogen gas may be generated. Reacts with alkalis, amines and strong acids to form hydrogen gas. Reacts with oxidizing agents such as fluorocarbons. The generation of hydrogen gas is increased by contact with metals or some metallic compounds.
- Avoid storage in open containers, exposure to open flame.
- Incompatibilities: Alkalis, amines, acids and metal salts, especially in combination with water and alcohols. Strong oxidizers or fluorocarbons at higher temperatures.

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Hazardous Decomposition: Thermal decomposition and burning may produce carbon monoxide, carbon dioxide, silicon dioxide, formaldehyde and traces of incompletely burned carbon products.

SECTION 11 TOXICOLOGY INFORMATION

All available toxicology information has been provided in Section 3 of this document.

SECTION 12 ECOLOGICAL INFORMATION

No data on ecological effects is available.

SECTION 13 DISPOSAL INFORMATION

Since regulations vary, consult applicable regulations or authorities before disposing of this material.

SECTION 14 TRANSPORTATION INFORMATION

This product is not regulated as a hazardous material by the U.S. Department of Transportation.

SECTION 15 REGULATORY AND MISCELLANEOUS INFORMATION

TSCA: All components of this product are listed on the TSCA inventory.

SARA 313 Chemicals: None present or none present in regulated quantities.

Date Prepared: 12-03-02
Document Number: S1945
Supersedes: N/A
Prepared By: Chomerics Safety Department

Revision Information: N/A

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