

## Safety Data Sheet & Technical Data Sheet (MSDS+TDS) for Silicone Rubber Sheet

### Section 1: Product and Company Identification

**Product Name:** Silicone Rubber Sheet

**Product Form:** Sheet Solid

### Section 2: Composition/Information on Ingredients

Component (English Name)	Concentration (%)	CAS No.
Methyl Vinyl Silicone Rubber	50 - 80%	68083-18-1
Silica (Silicon Dioxide)	20 - 40%	7631-86-9
Polysiloxane	5 - 10%	63148-62-9
Dimethylhexane	1 - 2%	52892-97-4

### Section 3: Physical and Chemical Properties

**Appearance / Form:** Sheet solid.

**Odor:** Slight silicone odor.

#### Physical Properties:

**Hardness (Shore A):**  $60^{\circ} \pm 5$

**Specific Gravity:**  $1.3 \pm 0.05$

**Tensile Strength:** 5 - 7 MPa

**Elongation at Break:** 250% - 350%

**Tear Strength:** 15 - 30 N/mm

#### Chemical Characteristics:

**Temperature Resistance:**  $-40^{\circ}\text{C}$  to  $220^{\circ}\text{C}$

**Aging Resistance:** Excellent

### Section 4: Hazards Identification

**Hazard Classification:** Flammable.

**Stability:** Very stable at ambient temperature.

**Health Hazards:** No significant health hazards are expected under normal conditions of use and handling.

**Environmental Hazards:** None identified.

**Fire and Explosion Hazard:** Combustible. Keep away from open flames and ignition sources.

## Section 5: First-Aid Measures

**Skin Contact (Molten Material):** Immediately cool the affected area with plenty of cold water. Treat as a thermal burn and seek medical attention.

**Eye Contact:** Immediately flush eyes with plenty of clean, gently running water or saline solution for several minutes, holding eyelids open. Seek medical attention.

**Inhalation:** Not required under normal conditions.

**Ingestion:** Do NOT induce vomiting. Seek immediate medical advice.

## Section 6: Fire-fighting Measures

**Suitable Extinguishing Media:** Water, foam, dry chemical powder, carbon dioxide, sand.

**Specific Hazards:** Combustible. Keep away from open flames and ignition sources.

**Protective Equipment for Firefighters:** Firefighters should wear self-contained breathing apparatus and full protective clothing.

## Section 7: Handling and Storage

**Handling Precautions:** Keep away from heat, sparks, and open flame. Avoid contact with oils, acids, and alkalis. Ensure good ventilation.

**Storage Conditions:** Store in a cool, dry, and well-ventilated place away from direct sunlight, heat sources, and open flames. Separate from oxidizing agents and other chemicals. Do not store in contact with oils, acids, or alkalis.

## Section 8: Exposure Controls/Personal Protection

**General Ventilation:** Adequate for normal handling. Maintain a well-ventilated work area. No smoking.

## **Personal Protective Equipment (PPE):**

**General:** Product is not for consumption.

## **Section 9: Physical and Chemical Properties**

*(See Section 3 for detailed data)*

## **Section 10: Stability and Reactivity**

**Stability:** Stable under normal conditions.

**Possibility of Hazardous Reactions:** Will not occur under normal conditions.

**Conditions to Avoid:** Heat, open flames, strong oxidizing agents.

**Hazardous Decomposition Products:** None under normal use.

## **Section 11: Toxicological Information**

No significant acute or chronic health effects are expected from exposure to this product under normal conditions of use.

## **Section 12: Ecological Information**

No significant ecological hazards identified.

## **Section 13: Disposal Considerations**

Dispose of in accordance with all applicable local, regional, and national regulations. Consider recycling. Incineration or landfilling should be performed by licensed waste management operators.

## **Section 14: Transport Information**

Transport as general cargo. Protect from high temperatures during transportation. Do not transport with oils, acids, alkalis, or oxidizing agents. Ensure packages are sealed (e.g., rolls in bags or sheets in bags).

## **Section 15: Regulatory Information**

This product is not classified as hazardous for transport under major international regulations. It is the responsibility of the shipper to ensure compliance with all applicable regulations.

## **Section 16: Product Applications**

Primarily used as a sealing, anti-slip, and shock-absorbing auxiliary material in electronic and electrical equipment.