



# MATERIAL SAFETY DATA SHEET

## 1 PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Silicone Tape 89N

**Manufacturer Name:**

Federal-Mogul World Headquarters  
26555 Northwestern Highway  
Southfield, Michigan 48033  
USA

**Emergency Telephone:**

24hr EP (INFOTRAC): 1-800-535-5053  
International: (001) 352-323-3500

**Non-emergency Telephone:**

1-248-354-9844

**Intended Use:** Silicone tape

**Contact Person:**

MSDS Request (voicemail) 1-248-354-9844

## 2 HAZARDS IDENTIFICATION

**Emergency Overview**

**Physical State:** Silicone tape

**Color:** Black

**Odor:** Slightly sweet

In its manufactured and shipped state, this product is considered to present low hazard. Used as intended, this product is not expected to generate potentially hazardous quantities of dust or fumes.

**Potential Health Effects**

**Inhalation:** No adverse effects due to inhalation are expected.

**Eye Contact:** No adverse effects due to eye contact are expected.

**Skin Contact:** No adverse effects due to skin contact.

**Ingestion:** Not relevant, due to the form of the product.

**Chronic Health Effects:** Not relevant, due to the form of the product.

**Potential Physical / Chemical Effects:** Will burn if involved in a fire.

**OSHA Regulatory Status:** Under some use conditions, this material may be considered to be hazardous in accordance with OSHA 29 CFR 1910.1200.

**Environment:** The product is not expected to be hazardous to the environment.

**3 COMPOSITION / INFORMATION ON INGREDIENTS**

**General Information:** The product contains: Cured silicone rubber and fiberglass. Under normal processing conditions, carbon black is considered to be safe through encapsulation in the silicone rubber.

Chemical Name	CAS-No.	Concentration*
†Thermal Black	Proprietary	1 - 5%

\* All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

† This chemical is hazardous according to OSHA/WHMIS criteria.

**4 FIRST AID MEASURES**

**Inhalation:** No specific first aid measures noted.

**Eye Contact:** No specific first aid measures noted. However, immediately flush with plenty of water for at least 15 minutes.

**Skin Contact:** No specific first aid measures noted. However, rinse with water.

**Ingestion:** No specific first aid measures noted.

**5 FIRE-FIGHTING MEASURES**

**Extinguishing Media:** Will burn if involved in a fire. Use fire-extinguishing media appropriate for surrounding materials. Inherently flame retardant and when burned forms a non-conductive ash.

**Unsuitable Extinguishing Media:** None.

**Special Fire Fighting Procedures:** Use standard firefighting procedures and consider the hazards of other involved materials. Cool material exposed to heat with water spray and remove it if no risk is involved.

**Unusual Fire & Explosion Hazards:** During fire, gases hazardous to health may be formed.

**Hazardous Combustion Products:** Carbon Monoxide, Carbon compounds, Chlorine compounds, Formaldehyde, Metal oxides, Silicon dioxide

**Protective Measures:** Self-contained breathing apparatus, operated in positive pressure mode and full protective clothing must be worn in case of fire.

**6 ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Used as intended, this product is not expected to generate potentially hazardous quantities of dust or fumes. See Section 8 of the MSDS for Personal Protective Equipment.

**Spill Cleanup Methods:** Collect and dispose of spillage as indicated in section 13 of the MSDS.

**Environmental Precautions:** Not relevant, due to the form of the product.

**Notification Procedures:** None.

<b>7</b>	<b>HANDLING AND STORAGE</b>
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**Handling:** Normal handling and use of this product should not generate dust or fumes. The intended use of this product does not include its milling, grinding or saw cutting. Avoid processing conditions that could release small particles of material (10 microns or less). If necessary, use respiratory protection. Observe good industrial hygiene practices.

**Storage:** Store in closed original container in a dry place. Silicone tapes have a one year shelf life. Store away from incompatible materials.

<b>8</b>	<b>EXPOSURE CONTROLS / PERSONAL PROTECTION</b>
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**Exposure Limits:**

Chemical Name	Source	Type	Exposure Limits	Notes
Thermal Black	CA. Alberta OELs	TWA	3.5 mg/m <sup>3</sup>	
Thermal Black	CA. British Columbia OELs	TWA	3.5 mg/m <sup>3</sup>	
Thermal Black	CA. Ontario OELs	TWA	3.5 mg/m <sup>3</sup>	
Thermal Black	CA. Quebec OELs	TWA	3.5 mg/m <sup>3</sup>	
Thermal Black	MEX. OELs	STEL	7 mg/m <sup>3</sup>	
Thermal Black	MEX. OELs	TWA	3.5 mg/m <sup>3</sup>	
Thermal Black (Inhalable fraction.)	US. ACGIH TLV	TWA	3 mg/m <sup>3</sup>	
Thermal Black	US. NIOSH Guide	IDLH	1750 mg/m <sup>3</sup>	
Thermal Black	US. OSHA Z-1 PEL	TWA	3.5 mg/m <sup>3</sup>	

**Engineering Controls:** Used as intended, this product is not expected to generate potentially hazardous quantities of dust or fumes. No special requirements under ordinary conditions of use and with adequate ventilation.

**Respiratory Protection:** No protection is ordinarily required under normal conditions of use and with adequate ventilation. Avoid processing conditions that could release small particles of material (10 microns or less). If necessary, use respiratory protection.

**Eye Protection:** No specific recommendations.

**Hand Protection:** No protection is ordinarily required under normal conditions of use.

**Skin Protection:** No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

**Hygiene Measures:** Wash hands after contact.

**Environmental Exposure Controls:** None.

<b>9</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
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**Color:** Black

**Odor:** Slightly sweet

**Odor Threshold:** Not applicable.

**Physical State:** Silicone tape

**pH:** Not applicable  
**Melting Point:** Not applicable.  
**Freezing Point:** Not applicable.  
**Boiling Point:** Not applicable.  
**Flash Point:** Not applicable.  
**Evaporation Rate:** Not applicable.  
**Flammability Limit - Upper (%):** Not applicable.  
**Flammability Limit - Lower (%):** Not applicable.  
**Vapor Pressure:** Not applicable.  
**Vapor Density (Air=1):** Not applicable.  
**Specific Gravity:** 1.2  
**Solubility in Water:** Not applicable.  
**Solubility (Other):** No data available.  
**Partition Coefficient (n-Octanol/water):** Not applicable.  
**Autoignition Temperature:** Not applicable.  
**Decomposition Temperature:** Not applicable.  
**Volatile Organic Compounds (VOC):** No data available.

<b>10</b>	<b>STABILITY AND REACTIVITY</b>
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**Stability:** Material is stable under normal conditions. Product may form formaldehyde vapors at temperatures above 149°C (300°F) in the presence of air.

**Conditions to Avoid:** Excessive heat. Flame.

**Incompatible Materials:** None known

**Hazardous Decomposition Products:**

At Elevated Temperatures:	Carbon Monoxide, Carbon compounds, Chlorine compounds, Formaldehyde, Metal oxides, Silicon dioxide
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**Possibility of Hazardous Reactions:** Will not occur.

<b>11</b>	<b>TOXICOLOGICAL INFORMATION</b>
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**General Information:** Used as intended, this product is not expected to generate potentially hazardous quantities of dust or fumes. Under normal processing conditions, carbon black is considered to be safe through encapsulation in the silicone rubber.

**Specified Substance(s)**

**Acute Toxicity:**

**Test Results:** No test data available for the ingredients.

**Other Acute:** No additional adverse health effects noted.

**Listed Carcinogens:**

Chemical Name	IARC	NTP	OSHA	ACGIH
Thermal Black	2B	Not Listed	Not Listed	A4

IARC: 1 = Carcinogenic to Humans; 2A = Probably Carcinogenic to Humans; 2B = Possibly Carcinogenic to Humans; 3 = Not classifiable as to carcinogenicity to humans; 4 = Probably not carcinogenic to humans; Not listed = Not evaluated by IARC.

ACGIH: A1 = Confirmed Human Carcinogen; A2 = Suspected Human Carcinogen; A3 = Confirmed Animal Carcinogen; A4 = Not classifiable as a human carcinogen; A5 = Not suspected to be a human carcinogen; Not listed = Not evaluated by ACGIH.

### **Product Information**

#### **Acute Toxicity:**

**Test Results:** No test data available for the product.

**Other Acute:** No additional adverse health effects noted.

**Chronic Toxicity:** Not relevant, due to the form of the product.

<b>12</b>	<b>ECOLOGICAL INFORMATION</b>
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**Ecotoxicity:** The product is not expected to be hazardous to the environment.

**Mobility:** Not relevant, due to the form of the product.

**Persistence and Degradability:** No data available.

**Bioaccumulation Potential:** No data available.

**Other Adverse Effects:** None known.

<b>13</b>	<b>DISPOSAL CONSIDERATIONS</b>
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**General Information:** Dispose of waste and residues in accordance with local authority requirements.

**Disposal Methods:** Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

**RCRA Information:** Not regulated.

**Container:** Dispose product packaging in accordance with local authority requirements taking into account characteristics of the packaging material.

<b>14</b>	<b>TRANSPORT INFORMATION</b>
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**DOT** Not regulated.

**TDG** Not regulated.

**IATA** Not regulated.

**IMDG** Not regulated.

<b>15</b>	<b>REGULATORY INFORMATION</b>
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**Canadian Controlled Products Regulations:** This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations, Section 33, and the MSDS contains all required

information.

**WHMIS Classification:** This is not a WHMIS controlled product.

**Mexican Dangerous Statement:** Under some use conditions, this material may be considered to be hazardous in accordance with Mexican regulations.

### **US Regulations**

**CERCLA Hazardous Substance List (40 CFR 302.4):** Not regulated.

### **SARA Title III**

**Section 302 Extremely Hazardous Substances (40 CFR 355, Appendix A):** Not regulated.

#### **Section 311/312 (40 CFR 370):**

☐ Acute (Immediate)    ☐ Chronic (Delayed)    ☐ Fire    ☐ Reactive    ☐ Pressure Generating

**Section 313 Toxic Release Inventory (40 CFR 372):** Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**  
Not regulated.

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3):** Not regulated.

**Drug Enforcement Act:** Not regulated.

### **TSCA**

**TSCA Section 4(a) Final Test Rules & Testing Consent Orders:** Not regulated.

**TSCA Section 5(a)(2) Final Significant New Use Rules (SNURs) (40CFR 721, Subpt. E):** Not regulated.

**TSCA Section 5(e) PMN-Substance Consent Orders:** Not regulated.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):** Not regulated.

### **State Regulations**

**California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):** Thermal Black

**Massachusetts Right-To-Know List:** Thermal Black

**Michigan Critical Materials List (Michigan Natural Resources and Environmental Protection Act (Act. 451 of 1994)):** Not regulated.

**Minnesota Hazardous Substances List:** Thermal Black

**New Jersey Right-To-Know List:** Thermal Black

**Pennsylvania Right-To-Know List:** Thermal Black

**Rhode Island Right-To-Know List:** Thermal Black

<b>16</b>	<b>OTHER INFORMATION</b>
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**HAZARD RATINGS**

	Health Hazard	Fire Hazard	Instability	Special Hazard
<b>NFPA</b>	NA	NA	NA	--

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

NFPA Label colored diamond code: Blue - Health; Red - Flammability; Yellow - Instability; White - Special Hazards

	Health Hazard	Flammability	Physical Hazard	Personal Protection
<b>HMIS</b>	NA	NA	NA	NONE

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

HMIS Label colored bar code: Blue - Health; Red - Flammability; Orange - Physical Hazards; White - Special

**Issued by:** Federal-Mogul Corporation

**Issue Date:** 21-Mar-2012

**Supersedes Date:**

**SDS No.:** Silicone Tape 89N\_NA

**Disclaimer:** The information provided on this data sheet was abstracted from supplier material safety data sheets and standard references in occupational health and toxicology. Federal-Mogul makes no representation or warranty with respect to the information obtained from such references. The information is however, as of the date provided, true and accurate to the best of Federal-Mogul's knowledge, and should be used to make an independent determination of the methods to safeguard workers and the environment.