



MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Sil-Gard® Cloth MSDS# BH-056	Manufacturer: Federal-Mogul Corporation 26555 Northwestern Highway Southfield, MI 48033 24hr Emerg # (Infotrac): 1-800-535-5053 International: 001-352-323-3500 Non-Emerg #: 248-354-9844
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SECTION 2: COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Sil-Gard High Temperature Cloth is composed of pure silica weave, making it very lightweight and highly flexible. It can withstand heat up to 2,300°F in continuous operations, and up to 3,000°F for short-term operations. Used in applications such as welding blankets or furnace curtains, the cloth is chemically resistant and electrically non-conductive.

Although several of the ingredients used to formulate this product may be hazardous in the raw state, the manufacturing process results in a solid, infusible form, binding and otherwise, rendering the product inert. The constituents identified below may be present in quantities greater than 1% (0.1% for carcinogens) that may be released from the product by such operations as overheating, burning, machining, abrading, or riveting.

This information provides the minimum criteria for safe usage and handling of this product. Companies using this product should develop their own occupational health program to protect employees from injury or adverse health effects.

Ingredient	CAS No.	% Weight	OSHA PEL	ACGIH TLV
Silica, amorphous (fused)	60676-86-0	90	$\frac{80 \text{ mg}}{\text{m}^3}$ (respirable % SiO ₂ fraction)	0.1 mg/m ³ (respirable fraction)
Sizing	--	10	None Established	None Established

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Shipped material is not considered hazardous, but operations (e.g., overheating, burning, machining, abrading, or riveting) that can create airborne dust should be avoided.

POTENTIAL HEALTH EFFECTS

Inhalation: Dust created from abrasion may cause respiratory irritation.

Skin: Prolonged contact may cause skin irritation.

Eye: Dust particles may cause irritation or corneal injury due to mechanical action.

Ingestion: Not a probable route of entry.

POTENTIAL HEALTH EFFECTS (continued)**Carcinogenicity:**

	COMPONENT
	NTP
	IARC
	OSHA
Silica, amorphous (fused)	No
	No
	No

When this product which has been in continuous service at elevated temperatures (greater than 1,800°F), it may undergo partial conversion to cristobalite, a form of crystalline silica, which is classified by IARC as a Group 2A carcinogen. The amount of crystalline silica present depends on the temperature and length of service.

Symptoms and Effects of Exposure to Selected Individual Components**SILICA, AMORPHOUS (FUSED)**

Inhalation of dust and fibers may cause irritation of the upper respiratory tract. Skin and eye contact could result in itching and temporary irritation. If ingested, it may result in irritation to the digestive tract. Chronic respiratory and/or skin effects may be aggravated by mechanical irritation when this product is used. There are no known health effects associated with chronic exposure to this product.

SECTION 4: FIRST AID MEASURES

Inhalation:	Move to fresh air. If irritation persists, seek medical attention.
Eye Contact:	Rinse thoroughly with ample amounts of water. If irritation persists, seek medical attention.
Skin Contact:	Rinse with cool water. Seek medical attention for thermal burn or persistent irritation.
Ingestion:	Not a probable route of entry.

SECTION 5: FIRE FIGHTING MEASURES

This product is inherently flame resistant.

Flashpoint: N/A **LEL:** N/A **UEL:** N/A **Autoignition Temperature:** N/A

Extinguishing Media: Use media type for surrounding fire.

Unusual Fire and Explosion Hazards: None known

Special Fire-Fighting Procedure: Wear self-contained breathing apparatus when extinguishing a fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

If dust is generated during such operations as machining, abrading or riveting, remove the dust by vacuuming or wet-mopping. Vacuums used for this purpose should be equipped with HEPA filters. Do not use compressed air to blow dust from surfaces.

SECTION 7: HANDLING AND STORAGE

If dust is generated during shipping, remove the dust by vacuuming or wet-mopping. Vacuums used for this purpose should be equipped with HEPA filters. Do not use compressed air to blow dust from surfaces.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation Protection: Any operation which may produce dust, including machining, grinding, riveting, or abrading this product, should be adequately exhausted to prevent inhalation of dust.

Respiratory Protection: Use a NIOSH-approved respirator if there is a potential for exposure to exceed applicable PELs or TLVs. (See 29 CFR 1910.134, OSHA Respiratory Protection Standard.)

Skin Protection: If skin irritation occurs, gloves and other protective garments may be worn. If excessive dust is generated, wear gloves and loose fitting clothing while handling the product.

Eyes: Wear safety glasses or goggles if cutting the material.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	N/A	Vapor Pressure:	N/A
Melting Point:	>3,000°F	Vapor Density (air = 1):	N/A
pH:	N/A	% Volatile:	N/A
Specific Gravity:	2.2	Evaporation Rate:	N/A
Water Solubility:	Insoluble	Form, Color, and Odor:	Solid, white, odorless

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable at normal temperatures and storage conditions.

Incompatibility (Materials/Conditions to Avoid): Phosphates, hydrofluoric acid, some oxides and hydroxides.

Hazardous Polymerization: Will not polymerize.

Decomposition Products: Sizing or binders may thermally decompose, producing such by-products as carbon monoxide, carbon dioxide, and hydrocarbons.

SECTION 11: TOXICOLOGICAL INFORMATION

Inhalation: Refer to Section 3

Skin:	Refer to Section 3
Eye:	Refer to Section 3
Ingestion:	Refer to Section 3
Acute:	None known
Chronic:	None known

SECTION 12: ECOLOGICAL INFORMATION

Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Federal and state law regulates disposal of scrap material or dust as solid waste; disposal must be in accordance with federal and state laws. Contact local regulatory agencies for guidance.

SECTION 14: TRANSPORTATION INFORMATION

Proper Shipping Name:	Not regulated
Hazard Class:	N/A
Identification Number:	N/A
Packing Group:	N/A
Shipping Label:	None
Additional Marking Requirement:	None

SECTION 15: REGULATORY INFORMATION

U.S. TSCA:	The chemicals used in the manufacture of this product are listed on the U.S. Toxic Substances Control Act (TSCA) Inventory.
California Proposition 65:	This product does not contain ingredients known to the State of California to cause cancer, birth defects or other reproductive effects.
SARA Title III – Section 313 Supplier Notification:	This product does not contain chemicals subject to SARA Title III/CERCLA “reportable quantities” (RQs) and/or “threshold planning quantities” (TPQs) and/or are classified as “Toxic Chemicals” under the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and 40 CFR 372.
RCRA Hazardous Waste Code:	Not Available
CERCLA Hazardous Substances:	Not Available
OSHA:	Exposure limits have been established for amorphous (fused) silica constituent, but not for the product.
WHMIS Classification:	Not Available

SECTION 16: OTHER INFORMATION

Abbreviations:

CAS No.:	Chemical Abstract Services Number
OSHA PEL:	U.S. Occupational Safety and Health Administration Permissible Exposure Limit
ACGIH TLV:	American Conference of Governmental Industrial Hygienists Threshold Limit Value (2004)
mg/m ³ :	Milligrams of contaminant per cubic meter of sampled air, on a weight-to-volume basis.
N/A:	Not Applicable
IARC:	International Agency for Research on Cancer
NTP:	National Toxicology Program
HEPA:	High-efficiency particulate air
NIOSH:	National Institute of Occupational Safety and Health

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