

# Material Safety Data Sheet: SCH 41

## SECTION 1: Chemical Product Name and Company Identification

Trade Name and Synonyms: SCH 41 Date: 2/4/2005  
Chemical Name and Synonyms: Carbon Fiber  
Chemical Name and Synonyms: Glass

Manufacturers Name: Fyfe Co. LLC  
Address: 6310 Nancy Ridge Dr. Suite 103, San Diego, CA 92121  
Telephone: 858-642-0694  
Facsimile: 858-642-0947

Sources: Glass, Fibrous MSDS, 2004  
Carbon MSDS, 2000

## SECTION 2 - PHYSICAL DATA

Appearance: Resin-coated black fiber in continuous form.  
Fiber Glass in continuous, chopped or milled form  
Stitched fabric containing Carbon Uni with Glass  
Specific Gravity: 1.62  
% Volatile (by Wt.): <5

## SECTION 3 - HAZARDOUS INGREDIENTS

Ingredient:	Carbon Fiber	Glass
Weight Percent:	> 92%	>6%
C.A.S. Number:	07440-44-0	Not Listed

## SECTION 4 - OTHER INGREDIENTS

Ingredient:	Polymer Sizing	Glass Sizing (Polyester Sizing)	Sodium Sulfate (in Aramid Pulp)	Water, absorbed	Pulp wet-lap
Weight Percent:	< 5	<5	<.1	0-7	35-50

## SECTION 5 - FIRE AND EXPLOSION HAZARD DATA

Flash Point: Not Flammable FLAMMABLE LIMITS: N/A  
Extinguishing Media: Carbon dioxide, dry chemical, water spray  
Special Fire Fighting Procedures: N/A  
Usual Fire and Explosion Hazards: Carbon fiber may be released in a fire situation, and the fibers are sufficiently conductive to cause severe electrical problems.  
The glass veil has a polyester sizing and may decompose under fire conditions.  
Primary decomposition products include Hydrocarbons and water. Due to the low Polyester content, the Material should Self-Extinguish when heat source is removed.  
Wear self-contained breathing apparatus with full facepiece operation in the positive demand mode when fighting any fire involving chemicals.

## SECTION 6 - HEALTH HAZARD DATA

Dust particles associated with this product may cause irritation of the skin, eyes, and respiratory tract.

## Section 7 - HAZARD RATING

Least:	0	Health:	1
Slight:	1		
Moderate:	2	Fire:	0
High:	3		
Extreme:	4	Reactivity:	0

**SECTION 8.1 - OCCUPATIONAL EXPOSURE LIMITS: Carbon**

OSHA PEL: 15 mg/m<sup>3</sup> as total nuisance particulate; 5 mg/m<sup>3</sup> as respirable fraction.

ACGIH TLV: 10 mg/m<sup>3</sup> as total nuisance particulate; 3 mg/m<sup>3</sup> as respirable friction.

NIOSH: None

Carcinogen: NTP - No IARC - No OSHA - No

**SECTION 8.2- OCCUPATIONAL EXPOSURE LIMITS: Glass, Fibrous**

OSHA PEL: Not Available

ACGIH TLV: Not Available

Other limits recommended: Not Available

**SECTION 9 - EMPLOYEE PROTECTION**

Respiratory Protection: NIOSH approved respirator for dust if PEL is exceeded.  
 Eye Protection: Safety glasses  
 Protective Gloves: Latex (rubber) gloves  
 Other Protective Equipment: None  
 Ventilation: Adequate ventilation should be provided at points where the product is handled. Skin contact should be minimized through process design or the use of protective clothing, eye protection and work gloves.

**SECTION 10 - FIRST AID**

Skin Contact: Wash with soap and water avoid rubbing or scratching.  
 Eye Contact: Irrigate to remove particle avoid rubbing or scratching.  
 Inhalation: Remove to fresh air. Treat any irritation symptomatically, contact a physician.  
 Ingestion: Ingestion is Highly unlikely primarily due to the fact that the glass fiber will be caught in the upper respiratory tract.

**SECTION 11 - SPECIAL PRECAUTIONS**

Precautions for Handling and Storing: Handle in manner which reduces airborne dust.

Other Precautions: Carbon material is electrically conductive. Electrical systems should be protected from exposure to airborne fiber. Do not store material in direct sunlight. Avoid drying to less than 4% moisture.

**SECTION 12 - ENVIRONMENTAL PROTECTION**

Spill and Leak Procedures: Spilled product should be placed in sealed plastic bags. The actual cleanup of a spill should be accomplished with due regard to the electrically conductive nature of the product. Contamination of electrical equipment should be avoided. If a vacuum system is used in the cleanup, it should be fully capable of handling a conductive material with no risk of electrical shock to the operator.

Waste Disposal Method: Carbon/Glass fibers are not listed as hazardous wastes nor do they exhibit any of the hazardous characteristics contained in USA federal hazardous regulations (40CFR261). Waste fibers should be disposed of in an approved landfill in accordance with existing national and local regulations.

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**SECTION 13.1- REACTIVITY DATA: Carbon**

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Stability:	Stable; Codes 140, 143, 150, 153, 154, 156, 157, 170, 560, and 561 soluble in water
Hazardous Polymerization:	Will not occur
Conditions/Materials to Avoid:	Exposure to electrical equipment and circuitry. Strong oxidizers, excessive or localized heating.
Hazardous Decomposition Products:	Oxides of carbon and nitrogen

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**SECTION 13.2- REACTIVITY DATA: Glass**

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Stability:	Stable at normal temperatures and storage conditions.
Incompatibility with other materials:	None reasonably foreseeable
Decomposition:	Fiber decomposition temperature > 1400 °F, At lower temperatures finish may boil off as a fume, which should be vented.
Polymerization:	Will not occur