

SPECIALTY MATERIALS, INC.

Manufacturers of Boron and SCS Silicon Carbide Fibers and Boron Nanopowder

MATERIAL SAFETY DATA SHEET – SILICON CARBIDE FIBER (SCS ALL FORMS)

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER'S NAME: SPECIALTY MATERIALS, INC.
ADDRESS: 1449 MIDDLESEX STREET
CITY, STATE AND ZIP: LOWELL, MA 01851
EMERGENCY PHONE NUMBER: 978-322-1927
OTHER INFORMATION: 978-322-1900
DATE: November 18, 2004
SIGNATURE OF PERSON RESPONSIBLE FOR PREPARATION: AL KUMNICK

HMIS LABEL

HEALTH	1
FIRE	0
REACTIVITY	0
PPE	B

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY

HAZARDOUS COMPONENT(S)	CAS NUMBER	% MAXIMUM CONTENT
MERCURY	7439-97-6	~0.2 PPM

PRODUCT MEETS ARTICLE DEFINITION OF 40 CFR 704.3. HOWEVER, MERCURY IS PRESENT IN TRACE AMOUNTS ON THE SURFACE OF FIBER AS A RESULT OF DIRECT CONTACT DURING THE MANUFACTURING PROCESS.

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

BOILING POINT: NOT APPLICABLE
SPECIFIC GRAVITY (H₂O = 1): 2.8 TO 3.0
VAPOR PRESSURE (MM HG): NEGLIGIBLE
SOLUBILITY IN WATER: NEGLIGIBLE
REACTIVITY IN WATER: NONE
MELTING POINT: SUBLIMES @ 2300 - 2500°C
APPEARANCE AND ODOR: ODORLESS, GRAY-TO-BLACK CYLINDRICAL FIBER, DIAMETER RANGE FROM 50 TO 150 MICRONS
COMPOSITION: SILICON CARBIDE ON A CARBON SUBSTRATE

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SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT:	NOT APPLICABLE
METHOD USED:	NOT APPLICABLE
LEL LOWER:	NOT APPLICABLE
UEL UPPER:	NOT APPLICABLE
AUTO-IGNITION TEMPERATURE:	NONE
SPECIAL FIRE FIGHTING PROCEDURES:	NONE
EXTINGUISHER MEDIA:	NOT APPLICABLE
UNUSUAL FIRE AND EXPLOSION HAZARDS:	NONE

SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)

STABILITY:	UNSTABLE () STABLE (X)
CONDITIONS TO AVOID:	NOT REACTIVE
INCOMPATIBILITY:	NONE KNOWN
HAZARDOUS DECOMPOSITION PRODUCTS:	NONE KNOWN
HAZARDOUS POLYMERIZATION: CONDITIONS TO AVOID:	MAY OCCUR () WILL NOT OCCUR (X) NONE KNOWN

SECTION 6 - HEALTH HAZARDS

ACUTE:	PUNCTURE OF THE SKIN BY FIBER SPLINTERS.
CHRONIC:	NONE KNOWN
SIGNS & SYMPTOMS OF EXPOSURE:	LOCALIZED PAIN. POSSIBLE REDNESS AND SWELLING.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:	NONE KNOWN
EMERGENCY AND FIRST AID PROCEDURES:	REMOVAL OF SPLINTERS SHOULD BE ACCOMPLISHED AS SOON AS POSSIBLE TO AVOID ANY INFECTIONS. MEDICAL ASSISTANCE MAY BE REQUIRED IN SOME INSTANCES.
ROUTE OF ENTRY:	
INHALATION YES () NO (X):	UNLIKELY, UNLESS DUST IS INHALED FROM GRINDING OR MACHINING OPERATION.
EYES: YES (X) NO ():	SEEK MEDICAL ATTENTION IMMEDIATELY.
SKIN: YES (X) NO ():	REMOVAL OF SPLINTERS IN SKIN CAN BE DIFFICULT. RECOMMEND MEDICAL ASSISTANCE FOR ALL SPLINTERS.
INGESTION: YES () NO (X):	NOT LIKELY ROUTE OF ENTRY.
POTENTIAL CARCINOGEN:	
NATIONAL TOXICOLOGY PROGRAM:	YES () NO (X)
IARC MONOGRAPHS:	YES () NO (X)
OSHA:	YES () NO (X)

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--- SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES ---

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:	AVOID COILING TIGHTLY OR DOUBLING OVER TO MINIMIZE SPLINTERS.
OTHER PRECAUTIONS:	RECOMMEND SAFETY GLASSES WITH SIDE SHIELDS. THIN LEATHER GLOVES ARE ALSO RECOMMENDED WHILE HANDLING FIBERS IF THE OPERATION CAN BE PERFORMED USING THEM.
STEPS TO BE TAKEN IN CASE OF RELEASE OR SPILL:	NOT APPLICABLE
WASTE DISPOSAL METHODS:	NOT A HAZARDOUS WASTE. HOWEVER, DISPOSAL/MAINTENANCE PERSONNEL MUST BE AWARE OF THE SPLINTER HAZARD. DISPOSE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

--- SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES ---

RESPIRATORY PROTECTION:	NOT NORMALLY REQUIRED
VENTILATION:	AS PER ACGIH FOR GOOD QUALITY INDOOR AIR
LOCAL EXHAUST:	NOT REQUIRED
MECHANICAL:	N/A
SPECIAL:	NOT REQUIRED
OTHER:	NOT REQUIRED
PROTECTIVE GLOVES:	RECOMMENDED (29 CFR 1910.132)
EYE PROTECTION:	RECOMMENDED (29 CFR 1910.133)
OTHER PROTECTIVE CLOTHING OR EQUIPMENT:	NOT REQUIRED
WORK/HYGIENIC PRACTICES:	CAREFUL HANDLING TO PREVENT SPLINTERS. WASH HANDS THOROUGHLY BEFORE EATING OR SMOKING.

----- SECTION 9 - TOXICITY INFORMATION -----

----- SECTION 10 - ATTACHMENTS -----

NOTICE:

THE INFORMATION PRESENTED HERE IN IS BASED ON DATA CONSIDERED TO BE ACCURATE AS OF THE DATE OF PREPARATION OF THIS MATERIAL SAFETY DATA SHEET. HOWEVER, NO WARRANTY OR REPRESENTATION, EXPRESSED OR IMPLIED, IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE FOREGOING DATA AND SAFETY INFORMATION, NOR IS ANY AUTHORIZATION GIVEN OR IMPLIED TO PRACTICE ANY PATENTED INVENTION WITHOUT A LICENSE. IN ADDITION, VENDOR CAN ASSUME NO RESPONSIBILITY FOR ANY DAMAGE OR INJURY RESULTING FROM ABNORMAL USE, FROM ANY FAILURE TO ADHERE TO RECOMMENDED PRACTICES, OR FROM ANY HAZARDS INHERENT IN THE NATURE OF THE PRODUCT.