

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

SGI CERAMIC PRODUCTS INCLUDING TAPE, ROPE AND TUBING

MANUFACTURER:
SPECIALTY GASKETS, INC.
6400 SHAWSON DRIVE
MISSISSAUGA, ONTARIO
L5T 1L8

TELEPHONE NUMBER:
(905) 564-0807

CHEMICAL NAME AND SYNONYM:
N/A MIXTURE

CHEMICAL FAMILY:
N/A

SECTION II - HAZARDOUS INGREDIENTS

<u>AS MANUFACTURED:</u>	<u>WT.%</u>	<u>TLV/PEL</u>
CONTINUOUS FIBROUS GLASS CAS# 65997-17-3	APPROX. 30%	ACGIH TLV: 10 MG/M3 TOTAL DUST OSHA PEL: 5 MG/M3 RESPIRABLE DUST 15 MG/M3 TOTAL DUST
REFRACTORY CERAMIC FIBER (RCF) CAS# 1428-44-00-6	APPROX. 70%	OSHA PROPOSED PEL: 1 FIBERD/CC

SECTION III - PHYSICAL DATA

BOILING POINT:	N/A	SPECIFIC GRAVITY RANGE (H20=1):	2.50
VAPOUR PRESSURE (MM HG):	N/A	PERCENT VOLATILE BY VOLUME:	N/A
VAPOUR DENSITY (AIR=1):	N/A	EVAPORATION RATE	
SOLUBILITY IN WATER:	INSOLUBLE	(BUTYL ACTETATE=1)	N/A
APPEARANCE AND ODOUR:	OFF WHITE MATERIAL WITH NO ODOUR		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA:	N/A	FLAMMABLE LIMIT:	LEL:	N/A
FLASH POINT:	N/A		UEL:	N/A
UNUSUAL FIRE AND EXPLOSIVE HAZARDS:	N/A			
SPECIAL FIRE FIGHTING PROCEDURES:	N/A			

SECTION V - HEALTH HAZARD DATA

PRIMARY ROUTE OF ENTRY: INHALATION, INGESTION, SKIN CONTACT
EFFECTS OF OVEREXPOSURE: INHALATION IS NOT EXPECTED TO CAUSE ANY LONG-TERM HEALTH PROBLEMS. PROLONGED SKIN OR EYE CONTACT MAY CAUSE TEMPORARY MECHANICAL IRRITATION IN SOME INDIVIDUALS. AT HIGH TEMPERATURES, THE SURFACE TREATMENT ON THE FIBERS WILL DECOMPOSE, POSSIBLY RELEASING DECOMPOSITION PRODUCTS (CARBON MONOXIDE, ETHYLENEIMINE, HYDROGEN CYANIDE AND ACRYLONITRILE) IN SMALL QUANTITIES NOT BELIEVED TO BE HARMFUL. USE ADEQUATE VENTILATION. LONG-TERM EXPOSURE TO RCF CAUSED NO KNOWN CHRONIC HEALTH PROBLEMS IN HUMANS. NO FEDERAL OR STATE AGENCY REGULATES OCCUPATIONAL EXPOSURE TO RCF, LIMITED TESTING WITH LABORATORY ANIMALS HAS PRODUCED CONFLICTING RESULTS CONCERNING THE POSSIBLE CARCINOGENICITY IN ANIMALS BUT INSUFFICIENT DATA IN HUMANS). HANDLING RCF PRODUCTS MAY GENERATE RESPIRABLE PARTICULATES WHICH MAY CAUSE TEMPORARY IRRITATION OR DISCOMFORT OF THE SKIN, EYES, NOSE THROAT OR LUNGS AND MAY AGGRAVATE BRONCHIAL DISORDERS.

INHALATION: REMOVE TO FRESH AIR.
INGESTION: DRINK PLENTY OF WATER.
SKIN: WASH WITH MILD SOAP AND WATER.
EYES: FLUSH WITH PLENTY OF WATER.
IF IRRITATION PERSISTS, CALL A PHYSICIAN.

SECTION VI - REACTIVITY DATA

STABILITY: STABLE
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
MATERIALS/CONDITIONS TO AVOID: CONCENTRATED MINERAL ACIDS OR BASES

SECTION VII - SPILL OR LEAK PROCEDURES

SPILL OR LEAK: FOLLOW ROUTINE HOUSEKEEPING PROCEDURES.
VACUUMING IS PREFERRED; IF SWEEPING IS NECESSARY, USE A DUST SUPPRESSANT.
WASTE DISPOSAL: WASTES ARE NOT HAZARDOUS WASTES AS DEFINED BY RCRA (40 CFR 261).
COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS.
METHOD OF DISPOSAL: LANDFILL RQ - N/A

SECTION VIII - PERSONAL PROTECTION INFORMATION

ENGINEERING CONTROLS: USE ENGINEERING CONTROLS SUCH AS VENTILATION AND DUST COLLECTION DEVICES TO REDUCE AIRBOURNE FIBER CONCENTRATIONS TO THE LOWEST ATTAINABLE LEVEL.

PROTECTIVE CLOTHING: PROTECTIVE GLOVES, LONG SLEEVED SHIRTS AND PANTS ARE RECOMMENDED. WASH EXPOSED CLOTHING SEPERATELY FROM OTHER CLOTHING AND RINSE WASHER THOROUGHLY. VACUUM WORK CLOTHING WITH HEPA FILTER VACUUM BEFORE RMOVING FROM WORK AREA.

EYE PROTECTION: GOGGLES/SAFETY GLASSES WITH SIDESHEILDS SHOULD BE WORN.

RESPIRATORY PROTECTION: WHEN IT IS NOT POSSIBLE OR FEASIBLE TO REDUCE AIRBOURNE FIBERS AND/OR CRISTOBALITE DUST LEVELS BELOW THE PEL/REG THROUGH ENGINEERING CONTROLS, OR UNTIL THEY ARE INSTALLED, EMLOYEES ARE ENCOURAGED TO USE GOOD WORK PRACTICES TOGETHER WITH RESPIRATORY PROTECTION. BEFORE PROVIDING RESPIRATORS TO EMPLOYEES (ESPECIALLY NEGATIVE PRESSURE TYPE TYPE). EMPLOYERS SHOULD 1) MONITOR FOR AIRBOURNE FIBRES AND RESPIRABLE CRISTOBALITE CONCENTRATIONS USING NIOSH METHOD 7400 (B) AND 7500 RESPECTIVELY AND SELECT THE APPROPRIATE RESPIRATORY PROTECTION BASED UPON THE RESULTS OF THAT MONITORING. 2) HAVE THE WORKERS EVALUATED BY A PHYSICIAN TO DETERMINE TO WORKERS' ABILITY TO WEAR A RESPIRATORS, AND 3) IMPLEMENT RESPIRATORY PROTECTION TRAIING PROGRAMS. USE NIOSH/MSHA APPROVED RESPIRATORS, IN COMPLIANCE WITH OSHA RESPIRATORY PROTECTION STANDARD 29 CFR 1910.134 AND 29 CFR 1926.103, FOR THE PARTICULAR HAZARD OR AIRBOURNE CONCENTRATIONS TO BE ENCOUNTERED IN THE WORK ENVIRONMENT.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN AFTER SERVICE AND UPON REMOVAL:

AS MANUFACTURED, THESE PRODUCTS ARE ALUMINOSILICATES WHICH MAY TRANSFORM UPON HEATING TO MULLITE AND CRISTOBALITE (A FORM OF CRYSTALLINE SILICA). REMOVAL OF RCF PRODUCTS AFTER SERVICE MAY GENERATE DUST. PROLONGED/REPEATED INHALATION OF RESPIRABLE FREE CRYSTALLINE SILICA DUST MAY CAUSE DELAYED LUNG INJURY (SILICOSIS). IRAC HAS PLACED CRYSTALLINE SILICA IN CATEGORY 2A (IRAC BELIEVES THERE IS EVIDENCE OF CARCINOGENICITY IN ANIMALS BUT EVIDENCE FOR THE CARCINOGENICITY TO HUMANS IS LIMITED). THE RECOMMENDED TLV AND PEL FOR FREE CRYSTALLINE SILICA IS 0.05 MG/CUBIC M. APPROPRIATE VENTILATION AND RESPIRATORY PROTECTION SHOULD BE PROVIDED IN COMPLIANCE WITH OSHA STANDARDS 29 CFR 1910.94 AND 1910.134, RESPECTIVELY.

MINIMUM ACCEPTABLE RESPIRATORY TYPE WHEN HANDLING RCF PRODUCTS

<u>CONCENTRATION</u>	<u>RESPIRATOR</u>
UP TO 1 FIBRE/CC	OPTIONAL: DISPOSABLE DUST/MIST RESPIRATOR
1-5 FIBRES/CC	HALF-FACE, AIR PURIFYING RESPIRATOR WITH HIGH EFFICIENCY PARTICULATE AIR (HEPA) FILTER CARTRIDGES.

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MINIMUM ACCEPTABLE RESPIRATORY TYPE CONTINUED

5-25 FIBRES/CC	FULL-FACE AIR PURIFYING RESPIRATOR WITH HIGH EFFICIENCY PARTICULATE AIR (HEPA) FILTER CARTRIDGES OR POWERED AIR
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PURIFYING RESPIRATOR (PAPR) EQUIPPED WITH HEPA FILTER CARTRIDGES.

> 25 FIBRES/CC

FULL-FACE POSITIVE PRESSURE SUPPLIED AIR RESPIRATOR.

AFTER-SERVICE FIBRES/CHISTOBALITE

CONCENTRATION

RESPIRATOR

UP TO 5 FIBRES/CC OR UP TO 0.5 MG/M3 RESPIRABLE CRISTOBALITE

HALF-FACE, AIR-PURIFYING RESPIRATOR WITH HIGH EFFICENCY PARTICULATE AIR (HEPA) FILTER CARTIDGES.

5-25 FIBRES/CC OR 0.5-2.5 MG/M3 RESPIRABLE CRISOBALITE

FULL-FACE AIR PURIFYING RESPIRATOR EQUIPPED WITH HIGH EFFICIENCY PARTICULATE AIR (HEPA) FILTER CARTRIDGES OR POWERED AIR-PURIFYING RESPIRATOR (PAPR) EQUIPPED WITH HEPA FILTER CARTRIDGES.

GREATER THAN: 25 FIBRES/CC OR 2.5 MG/M3 RESPIRABLE CRISTOBALITE

FULL-FACE POSITIVE PRESSURE SUPPLIED AIR RESPIRATOR

* = EIGHT HOUR TIME WEIGHTED AVERAGE (TWA) OF CONCENTRATIONS DETERMINED BY SAMPLES COLLECTED AND ANALYZED USING NIOSH METHOD 7400 (B) FOR AIRBORNE FIBRES AND METHOD 7500 FOR CRISTOBALITE.

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DATE PREPARED JULY 2003