

P.O. Box 2627

# Material Safety Data Sheet

#### Section 1: PRODUCT AND COMPANY IDENTIFICATION

MSDS Identification: CS4055, F3 and F16 Finish

MSDS Number: 439-3227-4055-316G-14 Date: June 1, 2001 Page: 1 of 6

Supersedes MSDS: 439-3227-3160-0000-13

Manufacturer: Emergency Telephone Number:

Hexcel Corporation 800-433-5072 (24-Hour)

2200 South Murray Avenue

Anderson, SC 29621 864-260-5799 (Normal Business Hours-ET)

Information Telephone Number:

Product Identification: CS4055, F3 and F16 Finish: Fiberglass

Chemical Family: Woven Fiberglass Fabric using E-Glass or S2 Glass Fibers with a

Chromium (Cr<sup>3+</sup>) Methacrylate Finish applied.

#### Section 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	% by Weight	OSHA(PEL)	ACGIH(TLV)
Fiberglass fiber, synthetic, vitreous,	65997-17-3	98.8-99.9	15 mg/m <sup>3</sup> (Total) 5 mg/m <sup>3</sup> (Respirable)	5 mg/m <sup>3</sup> (Inhalable) 1f/cc(Respirable)

This product is not classified as a Hazardous Chemical as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

Where specific exposure limits for component dusts are not established, the levels provided for (Total/Inhalable) dust and (Respirable) fraction reflect the classification of Particulates Not Otherwise Regulated (PNOR) by OSHA or Classified (PNOC) by ACGIH.

#### Section 3: HAZARDS IDENTIFICATION

#### **EMERGENCY OVERVIEW:**

#### Appearance and Odor:

White fibers, with a greenish tint, woven into fabrics of varying weight, width and thickness, depending on the style, with a finish applied, with no distinctive odor. There may be a scalant applied to the edges of slit fabrics (less-than-full-width) to prevent fibers unwinding during use.

#### Statement of Hazard:

Caution! May cause temporary mechanical irritation of the eyes, skin or upper respiratory tract.

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# Section 3: HAZARDS IDENTIFICATION (Continued)

Primary Routes of Exposure:

Eyes--Yes

Skin--Yes

Inhalation-Yes

Ingestion--No

HMIS Rating:

Mealth--1

Flammability--0

Reactivity--0

Special--None

Potential Health Effects:

Eye: May cause mechanical irritation to the eyes. Dust from machining, grinding or sawing the cured product may cause mechanical irritation.

Skin: May cause mechanical irritation to the skin and possible dermatitis. Dust from machining, grinding or sawing the cured product may cause mechanical irritation.

Inhalation: May cause mechanical irritation to the upper respiratory tract. Dust from machining, grinding or sawing the cured product may cause mechanical irritation.

Ingestion: Very unlikely. If a large amount is swallowed, seek medical attention.

Medical Conditions Aggravated By Exposure: Preexisting conditions such as respiratory or skin disorders may be aggravated by exposure to the product because of the possible mechanical irritation.

Carcinogenic Information: The finish components present in this material at concentrations equal to or greater than 0.1 % are not listed or regulated by NTP, OSHA or ACGIH as a carcinogen. Glass filament is listed by IARC as Group 3 (not classifiable as to a human carcinogen).

#### Section 4: FIRST AID MEASURES

Eye: In case of eye contact, immediately flush eyes with large amounts of water for at least 15 minutes, keeping the eyelids open. Get medical attention.

Skin: In case of contact, immediately wash skin with mild soap and room temperature to cool running water. Use a wash cloth to help remove the fibers. To avoid further irritation, do not rub or scratch irritated areas. Rubbing or scratching may force fibers into the skin. Get medical attention if the irritation persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, qualified personnel may administer oxygen. Get medical attention immediately.

Ingestion: Ingestion of this material is unlikely. If swallowed, get medical attention immediately.

### Section 5: FIRE FIGHTING MEASURES

Flash Point Method of Determination: Not determined

Means of Extinction: Use water spray, dry chemical or CO2 to extinguish fires.

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# Section 5: FIRE FIGHTING MEASURES (Continued)

Special Fire Hazards: Avoid exposure through use of a self-contained, positive-pressure breathing apparatus.

### Section 6: ACCIDENTAL RELEASE MEASURES

Procedures in case of Accidental Release or Leakage: Avoid contact with skin, eyes or clothing (See Section 8). Clean up material, put into a suitable container and dispose of properly (See Section 13).

### Section 7: HANDLING AND STORAGE

Precautions to be taken in Handling and Storage: Store in a cool, dry place. Maintain sealed against contamination from dirt and moisture.

### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/Face Protection: Avoid eye contact. Wear coverall goggles, as necessary, to prevent irritation, if airborne dust or fibers are present.

Skin Protection: Wear protective clothing such as a loose fitting, long sleeved shirt that covers to the base of the neck, long pants and gloves, as necessary, to prevent irritation. Skin irritation is known to occur primarily at pressure points such as around the neck, wrist, waist and between the fingers.

Respiratory Protection: Not ordinarily required. If sufficient dust or fibers are generated during use of the product, use a NIOSH approved dust respirator.

Ventilation: Use local exhaust sufficient to control fibers or dust generated. If exhaust ventilation is not available or is inadequate, use a NIOSH approved dust respirator.

General Hygiene Recommendations: Before eating, drinking, smoking or using toilet facilities, wash face and hands thoroughly with soap and water. Remove any contaminated clothing and launder before reuse. Use vacuum equipment to remove fibers and dust from clothing and work areas. Compressed air is not recommended.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor... White fibers, with a greenish tint, woven into fabrics of varying weight, width and thickness, depending on the style, with a finish applied, with no distinctive odor. There may be a sealant applied to the edges of slit (less-than-full-width) fabrics to prevent fibers unwinding during use.

Melting Point (°F/°C).....>1292°F/>700°C

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# Section 9: PHYSICAL AND CHEMICAL PROPERTIES (Continued)

Specific Gravity (Water=1)...... 2.60

pH of Undiluted Product......Not determined

Volatile [Percent (%) by Weight].... 0

Percent (%) VOC......Not determined

### Section 10: STABILITY AND REACTIVITY

Stability: Stable under normal handling and storage conditions

Incompatible Materials: None

Products evolved from Heat of Combustion or Decomposition: The products of combustion and decomposition depend on other materials present in the fire and the actual conditions of the fire. Burning will decompose the finish and release oxides of carbon, nitrogen and silicon, water, ammonia, hydrogen chloride, traces of incompletely burned carbon products and other unidentified gases and vapors that may be toxic. Avoid inhalation.

Hazardous Polymerization: Will not occur under normal conditions of use. Rapid heating of the product in bulk may produce an uncontrolled exothermic reaction that may char and decompose the finish, generating unidentified gases and vapors that may be toxic. Avoid inhalation.

### Section 11: TOXICOLOGICAL INFORMATION

Component Toxicity Data:

Median Lethal Dose (Species):

Oral (LD<sub>50</sub>)...Not determined Inhalation (LC<sub>50</sub>)...Not determined

Dermal (LD<sub>50</sub>)...Not determined

Irritation Index, Estimation of Irritation (Species):

Skin...Not determined

Eve...Not determined

Inhalation...Not determined

Section 12: ECOLOGICAL INFORMATION

No ecological data has been determined.

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# Section 13: DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Material for disposal should be placed in appropriate sealed containers to avoid potential human and environmental exposure. It is the responsibility of the generator to comply with all federal, state, provincial and local laws and regulations. We recommend that you contact an appropriate waste disposal contractor and environmental agency for relevant laws and regulations. Under the U.S., Resource Conservation and Recovery Act (RCRA), it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets relevant waste classification.

### Section 14: TRANSPORT INFORMATION

#### DOT:

Proper Shipping Name.... Not regulated Hazard Class....... Not regulated Identification Number..... Not regulated Packing Group......... Not regulated Label Required........ None

### Section 15: REGULATORY INFORMATION

#### SARA Title III:

Section 302/304 Extremely Hazardous Substance:

None

Section 311 Hazardous Categorization:

None

Section 313 Toxic Chemicals:

None

### CERCLA Section 102(A) Hazardous Substance:

None

RCRA Information: Currently, this product is not listed in federal hazardous waste regulations 40 CFR, Part 261.33, paragraphs (e) or (f), i.e. chemical products that are considered hazardous if they become wastes. State or local hazardous waste regulations may also apply if they are different from the federal regulation. It is the responsibility of the user of the product to determine at the time of disposal, whether the product meets relevant waste classification and to assure proper disposal.

#### WHMIS (Canada):

Classification:

None

"This product has been classified in accordance with hazard criteria of the "Controlled Products Regulations" and this MSDS contains all the information required by the "Controlled Products Regulations."

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# Section 15: REGULATORY INFORMATION

WHMIS (Canada) (continued):

Ingredient Disclosure List:

Fibrous glass (CAS # 65997-17-3)

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): Warning! The state of California has determined that the following listed component chemicals in this product may cause cancer, birth defects or other reproductive harm: None

U.S., EPA. TSCA Information: This product is an article as defined by TSCA and is not required to be listed in the inventory.

Ozone Depletion Information: This product does not contain or is not manufactured with ozone depleting substances as identified in Title VI, Clean Air Act "Stratospheric Ozone Protection" and the regulations set forth in 40 CFR, Part 82.

## Section 16: OTHER INFORMATION

Special Precautions: None

Explanation and Disclaimer: Wherever such words or phrases as "hazardous," "toxic," "carcinogen," etc. appear herein, they are used as defined or described under state employee right-to-know laws, Federal OSHA laws or the direct sources for these laws such as the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), etc. The use of such words or phrases should not be taken to mean that we deem or imply any substance or exposure to be toxic, hazardous or otherwise harmful. Any exposure can only be understood within the entire context of its occurrence, which includes such factors as the substance's characteristics as defined in the MSDS, amount and duration of exposures, other chemicals present and preexisting individual differences in response to the exposure.

The data provided in this MSDS is based on the information received from our raw material suppliers and other sources believed to be reliable. We are supplying you this data solely in compliance with the Federal OSHA Hazard Communication Standard, 29 CFR 1910.1200 and other Federal and state laws as described in Section 15: Regulatory Information. The information contained in this MSDS is proprietary and confidential to Hexcel Corporation. This MSDS and the information in it are not to be used for purposes other than compliance with the Federal OSHA Hazard Communication Standard.

Liability, if any, for use of this product is limited to the terms contained in our sale terms and conditions. We do not in any way warrant (expressed or implied, including any implied warranty for merchantability or fitness for a particular purpose) the data contained or the product described in this MSDS. Additionally, we do not warrant that the product will not infringe any patent or other proprietary or property rights of others.

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