



Material Safety Data Sheet

Section 1: PRODUCT AND COMPANY IDENTIFICATION

MSDS Identification: F40, F43, F46, F47, F72, F73, F74, F80 ,F81, and CS-474 Finish

MSDS Number: 439-3227-ALSI-G000-06 **Date:** November 1, 1999 **Page:** 1 of 6

Supersedes MSDS: 439-3227-ALSI-0000-05

Manufacturer:

Hexcel Corporation

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P.O. Box 8181

Pleasanton, CA 94588-8781

Emergency Telephone Number:

800-433-5072 (24-Hour)

Information Telephone Number:

925-847-9500 (Normal Business Hours-PT)

Product Identification: F40, F43, F46, F47, F72, F73, F74, F80 F81 and C S-474 Finishes:
Fiberglass

Chemical Family: Woven Fiberglass Fabric either F-Glass or 52 Glass Fibers with a Silane Finish applied.

Section 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	% BY Weight	OSHA(PEL)	ACGIH(TLV)
Fiberglass, synthetic, vitreous, continuous filament fiber	65997-17-3	99.6-99.9	15 mg/m ³ (Total) 5 mg/m ³ (Respirable)	1f/cc 5 mg/m ³

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

Section 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

No unusual conditions are expected from this product.

Appearance and Odor:

White fibers woven into fabrics of varying weight, width and thickness, depending on the style, with a silane 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 becoming unwoven.

Statement of Hazard:

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

Primary Routes of Exposure:

Eyes--Yes

Skin --Yes

Inhalation--Yes

Ingestion—No

Section 3: HAZARD IDENTIFICATION (Continued)

HMIS Rating:

Health--1 Flammability--0 Reactivity--O Special--None

Potential Health Effects:

Eyes: May cause mechanical irritation to the eyes.

Skin: May cause mechanical irritation to the skin and possible dermatitis.

Inhalation: May cause mechanical irritation to the upper respiratory tract.

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

Medical Conditions Aggravated by Exposure: Chronic respiratory or skin conditions that are aggravated by mechanical irritants may be at increased risk from exposure to this product.**Other:** None of the components present in this material at concentrations equal to or greater than 0.1 % are listed or regulated by NTP, OSHA or ACGIH as a carcinogen, but Glass Filament is listed by IARC as Group 3 (not classifiable as to a human carcinogen).

Section 4: FIRST AID MEASURES

Eyes: 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.**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.**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: Maintain sealed against contamination from dirt and moisture.

Section 8: EXPOSURE CONTROL 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 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 from becoming unwoven.

Melting Point (°F/°C)	>1292°F/>700°C
Specific Gravity (Water=1)	2.60
Ph Of Undiluted Product	Not determined
Volatile [Percent (%) By Weight]	0
Percent (%) VOC	Not determined
Solubility in Water	Insoluble

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 produce carbon monoxide, carbon dioxide, silicon dioxide, nitrogen oxide and other unidentified gases and vapors which 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 which may char and decompose the finish, generating unidentified gases and vapors which may be toxic. Avoid inhalation.

Section 11: TOXICOLOGICAL INFORMATION

COMPONENT TOXICITY DATA:

Median Lethal Dose (Species):

Oral (LD₅₀). . .Not determined

Inhalation (LC₅₀). . .Not determined

Dermal (LD₅₀). . .Not determined

Irritation Index, Estimation Of Irritation (Species):

Skin. . Possible mechanical irritation and dermatitis

Eyes. . Possible mechanical irritation

Inhalation.. Possible mechanical irritation

Section 12: ECOLOGICAL INFORMATION

No ecological data has been determined.

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 US, 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 and to assure proper disposal.

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

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

All components of this product are either listed or are not required to be listed in the EPA TSCA inventory.

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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