

MATERIAL SAFETY DATA SHEET

Page 1 of 5 FlexFram 605 NS A

SECTION I – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

IDENTITY: (As used on label and list)

**FLEXFRAM™ 605 NS
PART A**

May be used to comply with OSHA's Hazard Communication Standard 29 CFR 1910.1200. Standard must be consulted for specific requirements.

Manufacturer's Name/Address/Phone #:

**FIBER MATERIALS, INC.
5 MORIN STREET
BIDDEFORD, ME 04005-4497
(207) 282-5911 MON-FRI 8:00-5:00**

Emergency Telephone #: INFOTRAC (800) 535-5053

Date Originally Prepared: 05/27/87

Revision Date: 5/2005

SECTION II – HAZARDOUS INGREDIENTS

Hazardous Components:

(Spec. Chemical Identity;

Common Name(s)):

CAS #:

**OSHA
PEL:**

**ACGIH
TLV:**

**Other Limits
Recommended:**

**%
Optional:**

Silica, Amorphous

7631-86-9

20 MPPCF
 $\frac{80 \text{ mg/m}^3}{\% \text{ SiO}_2}$

10 MPPCF
(3 mg/m³ respirable)

N/A

Aluminosilicate Fiber, Grit

N/A

N/A

SECTION III – PHYSICAL/AND CHEMICAL PROPERTIES

Boiling Point:

N/D

Specific Gravity (H₂O=1):

1.136

Vapor Pressure (MM Hg.):

N/A

Melting Point:

N/A

Vapor Density: (Air = 1)

N/A

**Evaporation Rate:
(Butyl Acetate=1)**

N/A

Solubility in Water:

Moderate

Appearance and odor:

Ammoniacal, mercaptan

SECTION IV – FIRE/FIRE FIGHTING MEASURES

Flash Point (Method Used): 365°F CoC

Flammable Limits: N/A

UEL: N/A **LEL:** N/A

MATERIAL SAFETY DATA SHEET

Page 2 of 5 FlexFram 605 NS A

Extinguishing Media: Water, CO₂, dry or foam.

Special Fire Fighting Procedures: For large fires, use water spray, fog, or foam. Dike water run-off. Prevent entry into sewers or natural waters. Wear full protective equipment.

Unusual Fire and Explosion Hazards: Toxic fumes will be evolved if unmixed material is involved in a fire. Wear self-contained breathing apparatus.

SECTION V – FIRST AID

Emergency and First Aid Procedures: Wear recommended protective equipment.

Eyes: Flush with water for 15 minutes and call a physician.

Skin: Wash thoroughly after handling.

Ingestion:

SECTION VI – STABILITY AND REACTIVITY

Stability: Material is stable.

Incompatibility (Materials to Avoid): Strong oxidizing agents, strong acids, chlorinated organic compounds.

Hazardous Decomposition or By-Products: Heating to decomposition may produce quantities of free Silica (Cristobalite). The recommended TLV/PEL for free crystalline Silica is derived from the formula:

$\frac{1}{2}$ mg/CUM *

% Respirable quartz +2 * (Reference 1984-1985 ACGIH TLV Booklet, page 34)

Material Polymerization:

May Occur:

Will not Occur: X

Conditions to Avoid: Reacts with considerable heat with hot resins.

SECTION VII – HANDLING AND STORAGE

Precautions to be Taken in Handling and Storing: Store in tight, sturdy containers in a dry location. Handle with accordance with hazard potential.

Other Precautions: Remove contaminated clothing and protective gear. Decontaminate. Destroy leather articles, including shoes that cannot be decontaminated.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection (Specify Type): NIOSH approved respiratory protection with organic vapor cartridges as required to prevent vapor over exposure.

MATERIAL SAFETY DATA SHEET

Page 3 of 5 FlexFram 605 NS A

Ventilation:

General Mechanical: Required to prevent overexposure.

Local: Should be provided in mixing and application areas.

Special: N/A

Protective Gloves: Rubber gloves as required to prevent skin contact.

Eye Protection: Goggles or Face Shield

Other Protective Clothing or Equipment: As necessary to prevent body contact.

Work/Hygienic Practices: Avoid smoking, eating and drinking in the work area.

SECTION IX – HEALTH HAZARDS IDENTIFICATION, INCLUDING EMERGENCY OVERVIEW

Route(s) of Entry:	Inhalation	X	Skin	X	Ingestion	X	Eye	X
---------------------------	-------------------	---	-------------	---	------------------	---	------------	---

Health Hazards (Acute and Chronic): Severe eye irritant, rate 105 in 0-110 range, rabbit. Moderate skin irritant. Removal of cured material by grinding may result in suspending Silica dust and nuisance dust in the air. This product contains an Aluminosilicate, which could transform upon heating to Mullite and Cristobalite (a form of Crystalline Silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free Crystalline Silica dust may cause delayed lung disease (Silicosis).

IARC has recently reviewed the animal, human and other relevant experimental data on Silica in order to critically evaluate and classify the Cancer causing potential. Based on its review, IARC classified Crystalline Silica as a group 2A carcinogen. By definition a group 2A is probably carcinogenic to humans. For Crystalline Silica, IARC’s 2A classification was based on limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.

The OSHA permissible exposure limit (PEL) for Cristobalite is 0.05 mg/m³ (resp.). The ACGIH threshold limit value (TLV) for Cristobalite is 0.05 mg/m³ (resp.) (ACGIH 1988-89). Particular care should be taken when working with “used” material to minimize generation of dust. Use NIOSH or MSHA approved equipment when airborne exposure limits may be exceeded, especially in confined areas with inadequate ventilation or in other areas. Acceptable respirators recommended for given airborne Cristobalite concentrations are:

Concentration

Respirator Type

Up to 10 times the PEL	Half-face cartridge respirator with high efficiency filters.
10 to 100 times the PEL	Full-face cartridge respirator with high efficiency filters.
> 100 times the PEL	Full-face positive pressure supplied air respirator.

MATERIAL SAFETY DATA SHEET

Page 4 of 5 FlexFram 605 NS A

Carcinogenicity: NTP and OSHA Regulated: N/A IARC (see below)

The pulmonary tumor causing potential of refractory ceramic fibers in animals is unclear. Two inhalation studies suggest a low order potential in inducing pulmonary tumors in animals, while other inhalation and intratracheal injection studies conclude that ceramic fibers are not tumorigenic in animals. The International Agency of Research on Cancer (IARC) has recently reviewed the animal, human and other relevant experimental data on man made mineral fibers in order to critically evaluate and classify the cancer causing potential of these materials. Based on its review, IARC classified fibrous glass wool, mineral wool (both rock wool and slag wool) and ceramic fiber as group 2B carcinogens. By definition, a group 2B agent is possibly carcinogenic to humans. For refractory ceramic fibers, IARC's 2B classification was based on sufficient evidence of carcinogenicity in experimental animals in the absence of human epidemiologic data.

Further animal and man health studies are planned. Pending the results of these studies, strict adherence to recommended safe work practices described elsewhere in this data sheet is advised.

Signs and Symptoms of Exposure: Irritation of skin, Dermatitis, burning of eyes, overexposure could cause irritation of respiratory tract.

Medical Conditions Generally Aggravated by Exposure: Asthma, sensitization Dermatitis.

SECTION X – ACCIDENTAL RELEASE MEASURES

Dike. Using recommended protective equipment, scoop up and containerize. Flush area with dilute (5%) Acetic Acid. Guard against fire hazard if solvents are used.

SECTION XI – TOXICOLOGICAL INFORMATION

This section will be updated as reviews are completed.

SECTION XII – ECOLOGICAL INFORMATION

This section will be updated as reviews are completed.

SECTION XIII – DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of in accordance with local, state and federal regulations.

SECTION XIV – TRANSPORT INFORMATION

DOT Proper Shipping name: Not regulated by this mode of transportation.

MATERIAL SAFETY DATA SHEET

Page 5 of 5 FlexFram 605 NS A

SECTION XV – REGULATORY INFORMATION

All disposal must be in compliance with all federal, state and local laws and regulations.

SECTION XVI – OTHER INFORMATION

The above information is believed to be accurate and represents the best information currently available to us. However, WE MAKE NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their own particular purposes. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The data in this MSDS relates only to the specific material designated and does not relate to use in combination with any other material or process.