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Material Safety Data Sheet

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1 Product Identification

Tradename:

3M FIRE BARRIER FS-195+, CS-195+ PRODUCTS

Product ID:

42-0009-9720-7	42-0009-9721-5	42-0009-9722-3	44-0007-0822-0
44-0007-0823-8	44-0007-0824-6	98-0400-2043-4	98-0400-2044-2
98-0400-2219-0	98-0400-2220-8	98-0400-2221-6	98-0400-2404-8
98-0400-2405-5	98-0400-2406-3	98-0400-2407-1	98-0400-2408-9
98-0400-2409-7	98-0400-2599-5	98-0400-2600-1	98-0400-2601-9
44-0028-0019-9	44-0028-0020-7	44-0028-0021-5	98-0400-2222-4
98-0400-2704-1	98-0400-2705-8	42-0011-1365-5	42-0011-1366-3
42-0011-1367-1	98-0400-2898-1	KK-0028-0021-5	98-0400-2928-6
98-0400-2256-2	98-0400-5226-2	98-0400-5237-9	98-0400-5310-4
98-0400-5311-2	98-0400-5312-0	98-0400-5313-8	98-0400-5314-6
98-0400-2947-6	98-0400-5389-8	98-0400-5390-6	

Intended Use of Product:

Fire stopping penetrations in floors & walls to prevent flame and smoke passage.

Division:

CONSUMER SAFETY AND LIGHT MANAGEMENT

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2 Composition/Information on Ingredients

Ingredient Name	CAS Number	Percentage
HYDRATED SODIUM SILICATE	6834-92-0	50 - 60
CHLOROPRENE RUBBER	9010-98-4	20 - 25
ENDOTHERMIC FILLER	21645-51-2	5 - 10
PLASTICIZER	64742-52-5	5 - 10
POLY (ETHYLENE TEREPHTHALATE) FILM	25038-59-9	1 - 5
ALUMINUM FOIL	7429-90-5	1 - 3
INORGANIC PIGMENT	1309-37-1	0.5 - 1.5
VULCANIZER	1314-13-2	0.5 - 1.5
TETRAMETHYLTHIURAM SULFIDE	97-74-5	0.1 - 0.25

NOTE:

Each percentage is expressed as the ratio of the weight of the ingredient to the weight of the controlled product.

3 Hazards Identification

Critical Hazards:

Prolonged or repeated exposure may cause: Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Prolonged or repeated exposure may cause:

Fibrosis: Signs/symptoms can include breathlessness, chronic dry cough, phlegm production, wheezing, and changes in lung function tests.

See Sections 7 and 11 for further information.

4 First Aid Measures

Instructions for Eye Contact:

Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Instructions for Skin Contact:

Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

Instructions for Inhalation:

Remove person to fresh air. If signs/symptoms develop, get medical attention.

Instructions for Ingestion:

Do not induce vomiting. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get immediate medical attention.

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5 Fire Fighting Measures

Flash point:	Not applicable
Lower Explosive Limit (%):	Not applicable

Upper Explosive Limit (%): Not applicable
 Autoignition temperature: Not Available
 Suitable Extinguishing Media:
 Non-flammable
 Exposure Hazards during Fire:
 No unusual fire or explosion hazards are anticipated. Material will not burn.
 Combustion Products from Fire:
 Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, or reaction with another material.
 Fire Fighting Procedures:
 No data available.

NFPA: Health	2
NFPA: Fire	1
NFPA: Reactivity	1
NFPA: Unusual Reaction Hazard	none

6 Accidental Release Measures

Personal Precautions:
 Observe precautions from other sections. Call 3M-HELPS line (1-800-364-3577) for more information on handling and managing the spill.
 Spill Response:
 Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

7 Handling and Storage

Storage Requirements:
 Store under normal warehouse conditions.
 Incompatible Materials:
 None known.
 Ventilation:
 No data available.
 Use Instructions:
 This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions.

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8 Exposure Controls/Personal Protection

Personal Protection

Eye Protection:
 Avoid eye contact. Wear goggles when sawing the product. The

following should be worn alone or in combination, as appropriate, to prevent eye contact: Indirect vented goggles;

Skin Protection:

Avoid skin contact.

Respiratory Protection:

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection. Avoid breathing of dust created by cutting, sanding, grinding or machining.

Ingestion (Prevention):

Wash hands after handling and before eating.

Recommended Ventilation:

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control dust, fume, or airborne particles. If ventilation is not adequate, use respiratory protection equipment. Provide appropriate local exhaust for cutting, grinding, sanding or machining.

Ingredient Exposure Data

HYDRATED SODIUM SILICATE (6834-92-0)

LD50 (rat, oral)	1153 mg/kg
LC50 (rat, inhalation/4 hours)	No data available.
Exposure Limits	

No data available.

CHLOROPRENE RUBBER (9010-98-4)

Specific Ingredient Data

No data available.

LD50 (rat, oral)	No data available.
LC50 (rat, inhalation/4 hours)	No data available.

Exposure Limits

No data available.

ENDOTHERMIC FILLER (21645-51-2)

Specific Ingredient Data

No data available.

LD50 (rat, oral)	No data available.
LC50 (rat, inhalation/4 hours)	No data available.

Exposure Limits

No data available.

PLASTICIZER (64742-52-5)

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Specific Ingredient Data

No data available.

LD50 (rat, oral)	> 5 g/kg
LD50 (dermal, rabbit)	> 5 g/kg
LC50 (rat, inhalation/4 hours)	No data available.

Exposure Limits

CMRG: TWA 5 mg/m3

CMRG: STEL 10 mg/m3

POLY (ETHYLENE TEREPHTHALATE) FILM (25038-59-9)

Specific Ingredient Data

No data available.

LD50 (rat, oral) No data available.
 LC50 (rat, inhalation/4 hours) No data available.
 Exposure Limits
 CMRG: TWA 5 mg/m3 10 mg/m3 as respirable dust
 CMRG: TWA as total dust

ALUMINUM FOIL (7429-90-5)
 LD50 (rat, oral) No data available.
 LC50 (rat, inhalation/4 hours) No data available.
 Exposure Limits
 ACGIH: TWA 10 mg/m3 (specific form)
 ACGIH: TWA 5 mg/m3 (as Aluminum) Category: ALUMINUM PYRO POWDERS

INORGANIC PIGMENT (1309-37-1)
 LD50 (rat, oral) > 10,000 mg/kg
 LC50 (rat, inhalation/4 hours) No data available.
 Exposure Limits
 ACGIH: TWA 5 mg/m3 (specific form) as Fe; (Table A4)

VULCANIZER (1314-13-2)
 LD50 (rat, oral) 630 mg/kg
 LC50 (rat, inhalation/4 hours) No data available.
 Exposure Limits
 ACGIH: TWA 5 mg/m3 as fume;
 ACGIH: TWA 5 mg/m3 (Respirable) as dust
 ACGIH: STEL 10 mg/m3 as fume;

TETRAMETHYLTHIURAM SULFIDE (97-74-5)
 LD50 (rat, oral) 450 mg/kg
 LC50 (rat, inhalation/4 hours) No data available.
 Exposure Limits
 No data available.

9 Physical and Chemical Properties

Physical form, Color, Odour: Solid; Material is laminated on one or both sides with aluminum foil or poly; dark brown to brick red colour; negligible odour;
 Odour Threshold: No data available.
 pH: Not applicable

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Boiling point/boiling range: Not applicable
 Melting point/melting range: Not applicable
 Vapour pressure: Not applicable
 Water Solubility: Not Available
 Specific gravity: 1.56 g/cm3 at room temperature
 Vapour density: Not applicable
 Volatile organic compounds: Not Available
 Evaporation rate: Not applicable
 Viscosity: Not applicable
 Percent Volatile: Not applicable

10 Stability and Reactivity

Conditions to Avoid:

None known.

Materials to Avoid:

None known.

Hazardous Decomposition:

Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, or reaction with another material.

Stability and Reactivity:

Stable. Hazardous polymerization will not occur.

11 Toxicological Information

Effects from Eye Contact:

Mechanical eye irritation: Signs/symptoms can include pain, redness, tearing and corneal abrasion.

Effects from Skin Contact:

Mechanical skin irritation: Signs/symptoms can include abrasion, redness, pain, and itching.

Prolonged or repeated exposure may cause: Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Effects from Inhalation:

Upper Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Prolonged or repeated exposure may cause:

Lung Effects: Signs/symptoms may include difficulty breathing, cough, wheezing, weakness, increased heart rate, bluish colored skin (cyanosis), sputum production and changes in lung function tests.

Fibrosis: Signs/symptoms can include breathlessness, chronic dry cough, phlegm production, wheezing, and changes in lung function

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tests.

Effects from Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, nausea, diarrhea and vomiting.

Sensitization Information:

Prolonged or repeated exposure may cause: Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Carcinogenicity:

No data available.

Mutagenicity:

No data available.

Reproductive Effects:

No data available.

Component Based Information:

No data available.

Product Based Information:

NOTE: All of the health effects listed are related to exposure to dust and airborne emissions created when the product is cut with power saws. The uncut product is not expected to pose a health hazard.

Other Effects & Information:

Prolonged or repeated exposure may cause: Kidney Effects:

Signs/symptoms may include reduced or absent urine production, increased serum creatinine, lower back pain, increased protein in urine, and increased blood urea nitrogen (BUN).

CAS 6834-92-0 is a corrosive material; however, due to the form and intended use of this product, no chemical irritation or corrosion is expected.

12 Ecological Information

Environmental Data:

Ecotoxicity Data:

Not applicable.

Ecofate Data:

Not applicable.

13 Disposal Considerations

Product as Sold:

Dispose of waste product in a sanitary landfill after completely absorbing with an inorganic absorbent.

Product Packaging:

No data available.

Special Instructions:

Since regulations vary, consult applicable regulations or authorities before disposal.

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14 Transportation Information

Transportation of Dangerous Goods

TDG Classification:

Non-Regulated Material

Special Information:

Contact 3M for more information.

International Dangerous Goods Classification

15 Regulatory Information

WHMIS Classification:

D2A, D2B

NOTE:

This product has been classified in accordance with the hazard

criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Product Certifications:

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory listing requirements.

16 Other Information

Reason for Reissue:

The following Sections and topics have been updated or revised:
Section 3 - Hazards Identification - Critical Hazards;

The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

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