

Safety Data Sheet

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Document Group: 6.00 23-6572-4 **Version Number: Issue Date:** 08/14/14 02/07/11 **Supercedes Date:**

SECTION 1: Identification

1.1. Product identifier

3M(TM) Fire Barrier MP+ Stick

Product Identification Numbers

98-0400-5454-0

1.2. Recommended use and restrictions on use

Recommended use

Passive fire barrier product for industrial applications

1.3. Supplier's details

MANUFACTURER: 3M

DIVISION: Industrial Adhesives and Tapes Division **ADDRESS:** 3M Center, St. Paul, MN 55144-1000, USA 1-888-3M HELPS (1-888-364-3577) **Telephone:**

1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification

2.1. Hazard classification

Serious Eye Damage/Irritation: Category 2A.

Skin Sensitizer: Category 1.

2.2. Label elements

Signal word

Warning

Symbols

Exclamation mark |

Pictograms



Hazard Statements

Causes serious eye irritation. May cause an allergic skin reaction.

Precautionary Statements

General:

Keep out of reach of children.

Prevention:

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wear protective gloves and eye/face protection.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Disposal:

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

2.3. Hazards not otherwise classified

None.

2% of the mixture consists of ingredients of unknown acute oral toxicity.

7% of the mixture consists of ingredients of unknown acute dermal toxicity.

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|---|---------------|------------------------|
| Sodium Silicate | 1344-09-8 | 10 - 30 Trade Secret * |
| Polymer NJTS Reg. No. 04499600-7315 | Trade Secret* | 10 - 30 Trade Secret * |
| Petrolatum | 8009-03-8 | 10 - 30 Trade Secret * |
| Zinc Borate | 138265-88-0 | 10 - 30 Trade Secret * |
| Melamine Phosphate | 41583-09-9 | 7 - 13 Trade Secret * |
| Polybutylene | 9003-29-6 | 7 - 13 Trade Secret * |
| Glass Wool | 65997-17-3 | 3 - 7 Trade Secret * |
| Butadiene-Styrene-Meta-Divinylbenzene Polymer | 26471-45-4 | 3 - 7 Trade Secret * |
| Amorphous Silica | 112945-52-5 | 1 - 5 Trade Secret * |
| Rayon Fiber | None | < 5 Trade Secret * |
| Water | 7732-18-5 | 1 - 5 Trade Secret * |
| Alpha-Methylstyrene-Isoamylene-Piperylene Polymer | 62258-49-5 | < 2 Trade Secret * |
| 4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer | 25068-38-6 | < 2 Trade Secret * |
| Rosin | 8050-09-7 | < 1 Trade Secret * |

NJTS or NJTSRN: New Jersey Trade Secret Registry Number.

*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

Skin Contact:

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye Contact:

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Use a fire fighting agent suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ventilate the area with fresh air. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Keep out of reach of children. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage including any incompatibilities

Store away from areas where product may come into contact with food or pharmaceuticals.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

| Ingredient | C.A.S. No. | Agency | Limit type | Additional Comments |
|-----------------------|------------|--------------|------------------------------|----------------------------|
| SILICA, AMORPHOUS | 112945-52- | OSHA | TWA concentration:0.8 | |
| | 5 | | mg/m3;TWA:20 millions of | |
| | | | particles/cu. ft. | |
| Glass Wool | 65997-17-3 | Manufacturer | TWA(as dust):10 mg/m3 | |
| | | determined | | |
| MINERAL OILS, HIGHLY- | 8009-03-8 | ACGIH | TWA(inhalable fraction):5 | A4: Not class. as human |
| REFINED OILS | | | mg/m3 | carcin |
| Paraffin oil | 8009-03-8 | OSHA | TWA(as mist):5 mg/m3 | |
| Rosin | 8050-09-7 | ACGIH | Limit value not established: | Cntrl all exposr-low as |
| | | | | possib, |
| | | | | Dermal/Respiratory |
| | | | | Sensitizer |

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

OSHA: United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Indirect Vented Goggles

Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective

clothing.

Gloves made from the following material(s) are recommended: Polymer laminate

Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Physical Form: Solid **Specific Physical Form:** Putty

Red putty with negligible odor Odor, Color, Grade:

No Data Available **Odor threshold Melting point** Not Applicable **Boiling Point** Not Applicable

Flash Point Flash point > 93 °C (200 °F)

Flammability (solid, gas) Not Classified Flammable Limits(LEL) Not Applicable Not Applicable Flammable Limits(UEL)

1.25 [*Ref Std:* WATER=1] **Specific Gravity**

Solubility In Water No Data Available Solubility- non-water No Data Available No Data Available Partition coefficient: n-octanol/ water **Autoignition temperature** Not Applicable **Decomposition temperature** No Data Available Volatile Organic Compounds < 1 % weight

VOC Less H2O & Exempt Solvents < 1 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non reactive under normal use conditions.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

SubstanceConditionAldehydesNot SpecifiedCarbon monoxideNot SpecifiedCarbon dioxideNot Specified

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:

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

Skin Contact:

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eye Contact:

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

Ingestion:

May be harmful if swallowed.

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

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

| Name | Route | Species | Value |
|-------------------------------------|-----------|---------|---|
| Overall product | Dermal | | No data available; calculated ATE > 5,000 mg/kg |
| Overall product | Ingestion | | No data available; calculated ATE 2,000 - 5,000 |
| | | | mg/kg |
| Zinc Borate | Dermal | Rabbit | LD50 > 10,000 mg/kg |
| Zinc Borate | Ingestion | Rat | LD50 > 10,000 mg/kg |
| Sodium Silicate | Dermal | Rabbit | LD50 > 4,640 mg/kg |
| Sodium Silicate | Ingestion | Rat | LD50 500 mg/kg |
| Petrolatum | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Petrolatum | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Polymer NJTS Reg. No. 04499600-7315 | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Polymer NJTS Reg. No. 04499600-7315 | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Polybutylene | Dermal | Rat | LD50 > 10,250 mg/kg |
| Polybutylene | Ingestion | Rat | LD50 > 34,600 mg/kg |
| Melamine Phosphate | Dermal | | LD50 estimated to be 2,000 - 5,000 mg/kg |

| Melamine Phosphate | Ingestion | Rat | LD50 > 4,000 mg/kg |
|---|-------------|--------|--|
| Glass Wool | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Glass Wool | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Butadiene-Styrene-Meta-Divinylbenzene Polymer | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Amorphous Silica | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Amorphous Silica | Inhalation- | Rat | LC50 > 0.691 mg/l |
| | Dust/Mist | | |
| | (4 hours) | | |
| Amorphous Silica | Ingestion | Rat | LD50 > 5,110 mg/kg |
| 4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer | Dermal | Rat | LD50 > 1,600 mg/kg |
| 4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer | Ingestion | Rat | LD50 > 1,000 mg/kg |
| Alpha-Methylstyrene-Isoamylene-Piperylene Polymer | Ingestion | Rat | LD50 > 40,000 mg/kg |
| Rosin | Dermal | Rabbit | LD50 > 2,500 mg/kg |
| Rosin | Ingestion | Rat | LD50 7,600 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|---|---------|---------------------------|
| Sodium Silicate | Rabbit | Corrosive |
| Polymer NJTS Reg. No. 04499600-7315 | | No significant irritation |
| Polybutylene | Rabbit | Minimal irritation |
| Glass Wool | | No significant irritation |
| Butadiene-Styrene-Meta-Divinylbenzene Polymer | | Minimal irritation |
| Amorphous Silica | Rabbit | No significant irritation |
| 4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer | Rabbit | Mild irritant |
| Rosin | Rabbit | No significant irritation |

Serious Eye Damage/Irritation

| Serious Lye Dumuge, Illianion | | |
|---|---------|---------------------------|
| Name | Species | Value |
| Sodium Silicate | Rabbit | Corrosive |
| Polybutylene | Rabbit | Mild irritant |
| Glass Wool | | No significant irritation |
| Amorphous Silica | Rabbit | No significant irritation |
| 4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer | Rabbit | Moderate irritant |
| Rosin | Rabbit | Mild irritant |

Skin Sensitization

| Name | Species | Value |
|---|---------|-----------------|
| Sodium Silicate | Mouse | Not sensitizing |
| Amorphous Silica | Human | Not sensitizing |
| | and | |
| | animal | |
| 4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer | Human | Sensitizing |
| | and | |
| | animal | |
| Rosin | Guinea | Sensitizing |
| | pig | |

Respiratory Sensitization

| Name | Species | Value |
|---|---------|--|
| 4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer | Human | Some positive data exist, but the data are not |
| | | sufficient for classification |
| Rosin | Human | Some positive data exist, but the data are not |
| | | sufficient for classification |

Germ Cell Mutagenicity

| Name | Route | Value |
|---|----------|--|
| Sodium Silicate | In Vitro | Not mutagenic |
| Sodium Silicate | In vivo | Not mutagenic |
| Glass Wool | In Vitro | Some positive data exist, but the data are not |
| | | sufficient for classification |
| Amorphous Silica | In Vitro | Not mutagenic |
| 4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer | In vivo | Not mutagenic |
| 4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer | In Vitro | Some positive data exist, but the data are not |

|--|

Carcinogenicity

| Name | Route | Species | Value |
|---|------------------|-------------------------------|--|
| Glass Wool | Inhalation | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| Amorphous Silica | Not Specified | Mouse | Some positive data exist, but the data are not sufficient for classification |
| 4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure Duration |
|---|-----------|--|---------|-----------------------------|-----------------------------|
| Sodium Silicate | Ingestion | Some positive developmental data exist, but the data are not sufficient for classification | Mouse | NOAEL 200 mg/kg/day | during gestation |
| Amorphous Silica | Ingestion | Not toxic to female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation |
| Amorphous Silica | Ingestion | Not toxic to male reproduction | Rat | NOAEL 497 mg/kg/day | 1 generation |
| Amorphous Silica | Ingestion | Not toxic to development | Rat | NOAEL 1,350 mg/kg/day | during organogenesi s |
| 4,4'-Isopropylidenediphenol- Epichlorohydrin Polymer | Ingestion | Not toxic to female reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |
| 4,4'-Isopropylidenediphenol- Epichlorohydrin Polymer | Ingestion | Not toxic to male reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |
| 4,4'-Isopropylidenediphenol- Epichlorohydrin Polymer | Dermal | Not toxic to development | Rabbit | NOAEL 300 mg/kg/day | during organogenesi s |
| 4,4'-Isopropylidenediphenol- Epichlorohydrin Polymer | Ingestion | Not toxic to development | Rat | NOAEL 750 mg/kg/day | 2 generation |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Specific Target Organ Toxicity - single exposure | | | | | | |
|--|------------|------------------------|----------------------------------|------------|-------------|----------|
| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure |
| | | | | | | Duration |
| Sodium Silicate | Inhalation | respiratory irritation | May cause respiratory irritation | official | NOAEL Not | |
| | | | | classifica | available | |
| | | | | tion | | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|-----------------|------------|--------------------------|--|---------|-----------------------------|----------------------|
| Sodium Silicate | Ingestion | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Dog | LOAEL 2,400 mg/kg/day | 4 weeks |
| Sodium Silicate | Ingestion | endocrine system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 804 mg/kg/day | 3 months |
| Sodium Silicate | Ingestion | blood | All data are negative | Rat | NOAEL 804 mg/kg/day | 3 months |
| Sodium Silicate | Ingestion | heart liver | All data are negative | Rat | NOAEL 1,259 mg/kg/day | 8 weeks |
| Polybutylene | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 0.07 mg/l | 2 weeks |
| Polybutylene | Inhalation | liver | Some positive data exist, but the data are not sufficient for | Rat | NOAEL 0.7 mg/l | 2 weeks |

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| | | | classification | | | |
|-------------------------|------------|-----------------------|-----------------------------------|-------|-----------|--------------|
| Glass Wool | Inhalation | respiratory system | Some positive data exist, but the | Human | NOAEL not | occupational |
| | | | data are not sufficient for | | available | exposure |
| | | | classification | | | |
| Amorphous Silica | Inhalation | respiratory system | All data are negative | Human | NOAEL Not | occupational |
| | | silicosis | | | available | exposure |
| 4,4'- | Dermal | liver | Some positive data exist, but the | Rat | NOAEL | 2 years |
| Isopropylidenediphenol- | | | data are not sufficient for | | 1,000 | - |
| Epichlorohydrin Polymer | | | classification | | mg/kg/day | |
| 4,4'- | Dermal | nervous system | All data are negative | Rat | NOAEL | 13 weeks |
| Isopropylidenediphenol- | | | _ | | 1,000 | |
| Epichlorohydrin Polymer | | | | | mg/kg/day | |
| 4,4'- | Ingestion | auditory system | All data are negative | Rat | NOAEL | 28 days |
| Isopropylidenediphenol- | | heart endocrine | | | 1,000 | , |
| Epichlorohydrin Polymer | | system | | | mg/kg/day | |
| | | hematopoietic | | | | |
| | | system liver eyes | | | | |
| | | kidney and/or | | | | |
| | | bladder | | | | |

Aspiration Hazard

| ſ | Name | Value | | | | |
|---|------|-------|--|--|--|--|

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

Ecotoxicological information

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

SECTION 13: Disposal considerations

13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

EPA Hazardous Waste Number (RCRA): D007 (Chromium)

SECTION 14: Transport Information

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information

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15.1. US Federal Regulations

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

Ingredient C.A.S. No % by Wt Zinc Borate (ZINC COMPOUNDS) 138265-88-0 10 - 30

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law. Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: Other information

NFPA Hazard Classification

Health: 2 Flammability: 1 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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determine whether it is fit for a particular purpose and suitable for user's method of use or application.

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