

Safety Data Sheet

Issue Date: 07-Apr-2016

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Version 1

1. IDENTIFICATION

Product Identifier

Product Name SBS Granulated Self Adhering Membranes

Other means of identification

SDS # MFM-001

Synonyms Black Wind & Water Seal™, IB-3 ShingleStarter™, IB-3™ IceBuster, IB-3™ StormStopper, IB-4™ StormStopper, ShingleStarter™

Recommended use of the chemical and restrictions on use

Recommended Use Granulated self-adhering membrane used for waterproofing barrier/sealing systems.

Details of the supplier of the safety data sheet

Supplier Address

MFM Building Products Corp.
525 Orange St.
P.O. Box 340
Coshocton, OH 43812

Emergency Telephone Number

Company Phone Number

Phone: (740) 622-2645
Fax: (740) 622-6161

Emergency Telephone (24 hr)

CHEMTRON CORPORATION
Monday-Friday 7:30 am to 5:00 pm Phone: 440-937-6379
Nights, Weekends, and Holidays Phone: 440-937-5950

2. HAZARDS IDENTIFICATION

As defined in the OSHA Hazard Communication Standard, 29 CFR 1910.1200, the products listed below are considered articles and do not require an SDS. In addition, articles are not included in the scope of the Globally Harmonization System (GHS). As such, the GHS labeling elements are not included on this SDS. All components listed for this product are bound within the product. When handled as intended and under normal conditions of use, there is no evidence that any of the ingredients are released in amounts that pose a significant health risk. Although these products are not subject to the OSHA Standard or GHS labeling elements, MFM Building Products Corp would like to disclose as much health and safety information as possible to ensure that this product is handled and used properly. This SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and be made available for employees and other users of this product. In addition, the recommendations for handling and use of these products should be included in worker training programs.

Appearance: Black pliable solid, rubber**Physical State:** Solid**Odor:** Light Petroleum**Classification****Hazards Not Otherwise Classified (HNOC)**

Skin sensitive by some individuals.

Signal Word**Warning****Hazard Statements**

Harmful if ingested.

Under extreme and non-normal circumstances such as extensive cutting, grinding and pulverizing, there is some potential exposure to respirable crystalline silica (quartz). Prolonged and frequent exposure to such conditions could in some instances cause silicosis, a fibrosis of the lungs.

Precautionary Statements - Prevention

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Precautionary Statements - Response

If expose concerns exist, get medical advice/attention

If ingested, call a POISON CENTER or doctor/medical professional

Precautionary Statements - Storage

No special precautions are warranted.

Precautionary Statements - Disposal

See Section 13.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

Black Wind & Water Seal™, IB-3 ShingleStarter™, IB-3™ IceBuster, IB-3™ StormStopper, IB-4™ StormStopper, ShingleStarter™

Chemical Name	CAS No	Weight-%
Petroleum Asphalt	8052-42-4	40-50
Calcium Carbonate/Crystalline Silica	14808-60-7	6-17
1,3-butadiene-styrene block polymer	9003-55-8	0-7
Petroleum Distillate	64742-65-0	<5
Fibrous Glass	65977-17-3	5-6
Amorphous Silicon Dioxide	7631-86-9	13-14
Aluminum Oxide	1344-28-1	5-6
Iron Oxide (Fe ₂ O ₃)	1309-37-1	5-6
Calcium Oxide	1305-78-8	1-2

*Because of product form, exposure to dust or fumes is not expected to occur with normal use.

4. FIRST-AID MEASURES

First Aid Measures

General Advice	If exposed or concerned: Get medical advice/attention.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin Contact	Wash with soap and water.
Inhalation	Remove to fresh air.
Ingestion	If ingested: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Most important symptoms and effects

Symptoms	Some individuals find it to be harmful in contact with skin. This may cause a skin irritation or redness. It may aggravate pre-existing skin conditions.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

<u>Suitable Extinguishing Media</u>	Carbon dioxide (CO ₂)
<u>Unsuitable Extinguishing Media</u>	Not determined.
<u>Specific Hazards Arising from the Chemical</u>	Product is not flammable.
<u>Hazardous Combustion Products</u>	Carbon monoxide. Sulfur oxides. Various hydrocarbons.
<u>Protective equipment and precautions for firefighters</u>	As in any fire, wear self-contained breathing apparatus pressure demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Use personal protective equipment as required.
Environmental Precautions	Avoid release to the environment. See Section 13: DISPOSAL CONSIDERATIONS. See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so.
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Methods for Clean-Up

Clean up in accordance with all applicable regulations. Sweep up, pick up and put into an approved waste container for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling**Advice on Safe Handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid prolonged contact with skin, eyes or clothing. Use personal protective equipment as required. Do not handle until all safety precautions have been read and understood. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities**Storage Conditions**

Keep container tightly closed and store in a cool, dry and well-ventilated place. Store in a secure location.

Incompatible Materials

None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Exposures at these levels are not expected to occur under normal use. These exposure guidelines are provided as a general method for safe workplace monitoring.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
Petroleum Asphalt 8052-42-4	TWA: 0.5 mg/m ³ benzene soluble aerosol fume, inhalable fraction	-	Ceiling: 5 mg/m ³ fume 15 min
Calcium Carbonate/Crystalline Silica 14808-60-7	TWA: 0.025 mg/m ³ respirable fraction	(vacated) TWA: 0.1 mg/m ³ respirable dust : (30)/(%SiO ₂ + 2) mg/m ³ TWA total dust : (250)/(%SiO ₂ + 5) mppcf TWA respirable fraction : (10)/(%SiO ₂ + 2) mg/m ³ TWA respirable fraction	IDLH: 50 mg/m ³ respirable dust TWA: 0.05 mg/m ³ respirable dust
Fibrous Glass 65977-17-3	1 f/cc - resp	1 f/cc - resp	
Aluminum Oxide 1344-28-1		15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)	
Iron Oxide (Fe ₂ O ₃) 1309-37-1	5 mg/m ³ TWA (respirable fraction)	10 mg/m ³ TWA (fume); 15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)	5 mg/m ³ TWA (as Fe, dust and fume) 2500 mg/m ³ IDLH (as Fe, dust and fume)
Calcium Oxide 1305-78-8	2 mg/m ³ TWA	5 mg/m ³ TWA	2 mg/m ³ TWA 25 mg/m ³ IDLH

Other Information *Because of product form, exposure to dust or fumes is not expected to occur in normal use.

Appropriate engineering controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits. Eyewash stations. Safety Showers.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Use approved eye protection to avoid eye contact. Refer to 29 CFR 1910.133 for eye and face protection regulations.

Skin and Body Protection Wear normal working gloves of 100% cotton or leather. Refer to 29 CFR 1910.138 for appropriate skin and body protection.

Respiratory Protection Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation wear respiratory protection. Refer to 29 CFR 1910.134 for respiratory protection requirements.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Solid	Odor	Light Petroleum
Appearance	Black pliable solid, rubber	Odor Threshold	Not determined
Color	Black		
<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>	
pH	Not applicable		
Melting Point/Freezing Point	Not determined		
Flash Point	Not determined		
Evaporation Rate	Not applicable		
Flammability (Solid, Gas)	Not determined		
Upper Flammability Limits	Not determined		
Lower Flammability Limit	Not determined		
Vapor Pressure	Not applicable		
Vapor Density	Not applicable		
Specific Gravity	Not determined		

Water Solubility	Insoluble in water
Solubility in other solvents	Not determined
Partition Coefficient	Not determined
Auto-ignition Temperature	Not determined
Decomposition Temperature	Not determined
Kinematic Viscosity	Not applicable
Dynamic Viscosity	Not applicable
Explosive Properties	Not an explosive
Oxidizing Properties	Not applicable
VOC Content	0.0 g/l

10. STABILITY AND REACTIVITY

<u>Reactivity</u>	Not reactive under normal conditions.
<u>Chemical Stability</u>	Stable under recommended storage conditions.
<u>Possibility of Hazardous Reactions</u>	None under normal processing.
<u>Hazardous Polymerization</u>	Hazardous polymerization does not occur.
<u>Conditions to Avoid</u>	Temperatures over 400°F may cause resin degradation. Keep out of reach of children. See Sec. 7 Handling & Storage.
<u>Incompatible Materials</u>	None known based on information supplied.
<u>Hazardous Decomposition Products</u>	Carbon monoxide. Various hydrocarbons. Sulfur oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact	Avoid contact with eyes.
Skin Contact	May be harmful in prolonged contact with skin in some individuals.
Inhalation	Not an expected route of exposure.

Ingestion Harmful if ingested

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Petroleum Asphalt 8052-42-4	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
Calcium Carbonate/Crystalline Silica 14808-60-7	= 500 mg/kg (Rat)	-	-
Iron Oxide (Fe2O3) 1309-37-1	>10000 mg/kg (Rat)	-	-
Silicon Dioxide 7631-86-9	>5000 mg/kg (Rat)	>2000 mg/kg (Rabbit)	-
Calcium Dioxide 1305-78-8	500 mg/kg (Rat)	-	-
Aluminum Oxide 1344-28-1	>5000 mg/kg (Rat)	-	-

*Because of product form, exposure to dust or fumes is not expected to occur in normal use.

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

Numerical measures of toxicity Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity The product is classified as environmentally hazardous.

Component Information/Analysis – Aquatic Toxicity

Chemical Name	Fish	Algae	Invertebrate
Silicon Dioxide 7631-86-9	96 Hr LC50 Brachydanio rerio: 5000 mg/L [static]	72 Hr EC50 Pseudokirchneriella subcapitata: 440 mg/L	48 Hr EC50 Ceriodaphnia dubia: 7600 mg/L
Calcium Oxide (1305-78-8)	96 Hr LC50 Cyprinus carpio: 107 0 mg/L [static]		

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations. This product is not regulated as a hazardous waste by the U.S. EPA under the Resource Conservation and Recovery Act (RCRA).

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT Not regulated

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Petroleum Asphalt	Present	X		Present		Present	X	Present	X	X
Calcium Carbonate/Crystalline Silica	Present	X		Present		Present	X	Present	X	X
1,3-butadiene-styrene block polymer	Present	X				Present	X	Present	X	X
Fibrous Glass 65977-17-3	X									
Formaldehyde 50-00-0	X									

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

Other state regulations may apply. Check individual state requirements. The following components appear on one or more of the following state hazardous substances lists:

Chemical Name	CAS #	CA	MA	MN	NJ	PA	RI
Fibrous Glass	65977-17-3	Yes	No	Yes	Yes	No	Yes
Modified Urea Formaldehyde Resin		No	No	No	No	No	No
Formaldehyde	50-00-0	Yes	Yes	Yes	Yes	Yes	Yes
Iron Oxide (Fe ₂ O ₃)	1309-37-1	Yes	Yes	Yes	Yes	Yes	
Silicon Dioxide	7631-86-9	Yes	Yes	Yes	Yes	Yes	
Calcium Oxide	1305-78-8	Yes	Yes	Yes	Yes	Yes	
Aluminum Oxide	1344-28-1	Yes	Yes	Yes	Yes	Yes	
Titanium Oxide	13463-67-7	Yes	Yes	No	Yes	Yes	
Potassium Oxide	12136-45-7	Yes	Yes	No	Yes	Yes	
Magnesium Oxide	1309-48-4	Yes	Yes	No	Yes	Yes	
Sodium Oxide	1313-59-3	Yes	Yes	Yes	Yes	Yes	

Component Analysis – Inventory

Component	CAS	US	CA	EU	AU	PH	JP	KR	CN	NZ
Iron Oxide (Fe2O3)	1309-37-1	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
Silicon Dioxide	7631-86-9	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
Calcium Oxide	1305-78-8	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
Aluminum Oxide	1344-28-1	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
Titanium Oxide	7440-66-6	Yes	DSL	EIN	Yes	Yes	No	Yes	Yes	Yes
Potassium Oxide	12136-45-7	Yes	DSL	EIN	Yes	Yes	No	Yes	Yes	Yes
Magnesium Oxide	1309-46-4	Yes	DSL	EIN	Yes	Yes	No	Yes	Yes	Yes
Sodium Oxide	1313-59-3	Yes	DSL	EIN	Yes	Yes	No	Yes	Yes	Yes

US Federal Regulations**SARA**

313 Reportable Ingredients: Formaldehyde, 50-00-0, <0.1%

311/312 Hazardous Categories: Acute Health: Yes Chronic Health: Yes Fire: No Pressure: No Reactive: No

US State Regulations

California Proposition 65 This product contains a chemical known to the state of California to cause cancer and birth defects, or other reproductive harm. This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Calcium Carbonate/Crystalline Silica - 14808-60-7	Carcinogen
Fibrous Glass 65977-17-3	Carcinogen
Formaldehyde 50-00-0	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Petroleum Asphalt 8052-42-4	X	X	X
Calcium Carbonate/Crystalline Silica	X	X	X

16. OTHER INFORMATION

NFPA**Health Hazards**

1

Flammability

1

Instability

0

HMIS**Health Hazards**

Not determined

Flammability

Not determined

Physical Hazards

Not determined

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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet