

## Safety Data Sheet

## Firestone Building Products Company

## Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

## 1.1 Product identifier

**Product Name** • V-Force™ Vapor Barrier Membrane

## 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified use(s)** • Construction

## 1.3 Details of the supplier of the safety data sheet

**Manufacturer** • Firestone Building Products Company  
250 West 96th Street  
Indianapolis, IN 46260  
United States

firestonemsds@bfdp.com

**Telephone (General)** • 800-428-4442

## 1.4 Emergency telephone number

**Manufacturer** • (800) 424-9300 - CHEMTREC

**Manufacturer** • (703) 527-3887 - CHEMTREC - International

## Section 2: Hazards Identification

## EU/EEC

According to Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]  
According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

## 2.1 Classification of the substance or mixture

**CLP** • Not classified

**DSD/DPD** • Not classified

## 2.2 Label Elements

**CLP**

**Hazard statements** • No label element(s) required

**DSD/DPD**

**Risk phrases** • No label element(s) required

## 2.3 Other Hazards

**CLP** • According to Regulation (EC) No. 1272/2008 (CLP) this material is not considered hazardous.

**DSD/DPD** • This product is not considered dangerous under the European Directive 1999/45/EC

## United States (US)

According to OSHA 29 CFR 1910.1200 HCS

## 2.1 Classification of the substance or mixture

- OSHA HCS 2012
- Not classified

## 2.2 Label elements

- OSHA HCS 2012
- Hazard statements**
- No label element(s) required

## 2.3 Other hazards

- OSHA HCS 2012
- This product is not considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

## Canada

### According to WHMIS

## 2.1 Classification of the substance or mixture

- WHMIS
- Not classified

## 2.2 Label elements

- WHMIS
- No label element(s) required

## 2.3 Other hazards

- WHMIS
- In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

## Section 3 - Composition/Information on Ingredients

### 3.1 Substances

- Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

### 3.2 Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Nonhazardous Components	NDA	100%	NDA	EU DSD/DPD: None EU CLP: None OSHA HCS 2012: None	NDA

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

#### Inhalation

- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If signs/symptoms develop, move person to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

#### Skin

- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. Wash skin with soap and water. If signs/symptoms develop,

- Eye** get medical attention.
- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If contact with material occurs flush eyes with water. If signs/symptoms develop, get medical attention.
- Ingestion**
- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If signs/symptoms develop, get medical attention.

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

- Refer to Section 11 - Toxicological Information.

## 4.3 Indication of any immediate medical attention and special treatment needed

- Notes to Physician**
- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

## Section 5 - Firefighting Measures

### 5.1 Extinguishing media

- Suitable Extinguishing Media**
- Water, foam, dry chemical, carbon dioxide (CO<sub>2</sub>).

- Unsuitable Extinguishing Media**
- None known.

### 5.2 Special hazards arising from the substance or mixture

- Unusual Fire and Explosion Hazards**
- Combustion of this product causes dense black smoke. Water may cause frothing.
- Hazardous Combustion Products**
- Carbon dioxide, carbon monoxide and partially burned carbon.

### 5.3 Advice for firefighters

- Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Structural firefighters' protective clothing will only provide limited protection.

## Section 6 - Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- Personal Precautions**
- No special precautions expected to be necessary if material is used under ordinary conditions and as recommended.
- Emergency Procedures**
- No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended. Use normal clean up procedures.

### 6.2 Environmental precautions

- No special precautions necessary.

### 6.3 Methods and material for containment and cleaning up

- Containment/Clean-up Measures**
- Pick up pieces and place in container or bag for disposal.

### 6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

## Section 7 - Handling and Storage

### 7.1 Precautions for safe handling

- Handling**
- Use good safety and industrial hygiene practices.

## 7.2 Conditions for safe storage, including any incompatibilities

### Storage

- Keep away from heat, sparks and flame. Store in a clean, dry area in its original unopened packaging at temperatures of 50° F (10° C) – 140° F (60° C), so that it will be 50° F (10° C) or above at the time of application. Store in a well-ventilated place.

## 7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

## Section 8 - Exposure Controls/Personal Protection

### 8.1 Control parameters

#### Exposure Limits/Guidelines

- No exposure limits/guidelines available for the material or the components.

### 8.2 Exposure controls

#### Engineering Measures/Controls

- Under normal conditions of use, special ventilation is not required.

#### Personal Protective Equipment

##### Respiratory

- No respiratory protection is required under normal conditions of use.

##### Eye/Face

- Under normal conditions of use, eye protection is not required.

##### Skin/Body

- No skin protection is ordinarily required under normal conditions of use.

#### Environmental Exposure Controls

- Follow best practice for site management and disposal of waste.

## Section 9 - Physical and Chemical Properties

### 9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	Black solid membrane with asphalt odor.
Color	Black	Odor	Asphalt odor.
Odor Threshold	Data lacking		
General Properties			
Boiling Point	Not relevant	Melting Point	Data lacking
Decomposition Temperature	Data lacking	pH	Not relevant
Specific Gravity/Relative Density	Varies	Water Solubility	Insoluble
Viscosity	Not relevant	Explosive Properties	Not relevant.
Oxidizing Properties:	Not relevant.		
Volatility			
Vapor Pressure	Not relevant	Vapor Density	Not relevant
Evaporation Rate	Not relevant		
Flammability			
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Autoignition	Not relevant
Flammability (solid, gas)	Not flammable.		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

### 9.2 Other Information

- No additional physical and chemical parameters noted.

## Section 10: Stability and Reactivity

### 10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

- Stable under normal temperatures and pressures.

### 10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

### 10.4 Conditions to avoid

- Keep away from heat, sparks, and flame.

### 10.5 Incompatible materials

- No data available.

### 10.6 Hazardous decomposition products

- No data available

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

GHS Properties	Classification
Acute toxicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Skin corrosion/Irritation	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Skin sensitization	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
STOT-RE	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
STOT-SE	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Toxicity for Reproduction	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Respiratory sensitization	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met

**Route(s) of entry/exposure** • Inhalation, Skin, Eye, Ingestion

**Potential Health Effects****Inhalation**

- Acute (Immediate)**
  - Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)**
  - Under normal conditions of use, no health effects are expected.

**Skin**

- Acute (Immediate)**
  - Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)**
  - Under normal conditions of use, no health effects are expected.

**Eye**

- Acute (Immediate)**
  - Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)**
  - Under normal conditions of use, no health effects are expected.

**Ingestion**

- Acute (Immediate)**
  - Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)**
  - Under normal conditions of use, no health effects are expected.

**Section 12 - Ecological Information****12.1 Toxicity**

- Material data lacking.

**12.2 Persistence and degradability**

- Material data lacking.

**12.3 Bioaccumulative potential**

- Material data lacking.

**12.4 Mobility in Soil**

- Material data lacking.

**12.5 Results of PBT and vPvB assessment**

- PBT and vPvB assessment has not been carried out.

**12.6 Other adverse effects**

- No studies have been found.

**Section 13 - Disposal Considerations****13.1 Waste treatment methods**

- Product waste**
  - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
- Packaging waste**
  - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Section 14 - Transport Information**

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA

<b>TDG</b>	NDA	Not Regulated	NDA	NDA	NDA
<b>IMO/IMDG</b>	NDA	Not Regulated	NDA	NDA	NDA
<b>ADN</b>	NDA	Not Regulated	NDA	NDA	NDA
<b>ADR/RID</b>	NDA	Not Regulated	NDA	NDA	NDA
<b>IATA/ICAO</b>	NDA	Not Regulated	NDA	NDA	NDA

**14.6 Special precautions for user** • None known.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** • Not relevant.

## Section 15 - Regulatory Information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**SARA Hazard Classifications** • None

#### Canada

##### Labor

Canada - WHMIS - Classifications of Substances

Not Listed

Canada - WHMIS - Ingredient Disclosure List

Not Listed

##### Environment

Canada - CEPA - Priority Substances List

Not Listed

#### China

##### Other

China - Annex I & II - Controlled Chemicals Lists

Not Listed

#### Europe

##### Other

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification

Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

Not Listed

EU - Hazardous Substances Restricted or Prohibited in Electrical Equipment (2011/65/EU) (RoHS)

Not Listed

EU - Inventory of Cosmetic Ingredients Directive (INCI) (76/768/EEC) - Other Ingredients

Not Listed

EU - Inventory of Cosmetic Ingredients Directive (INCI) (76/768/EEC) - Perfume and Aromatic Materials

Not Listed

#### Germany

## Labor

**Germany - Immission Control - Qualifying Quantities for Major Accident Prevention**

Not Listed

**Germany - Immission Control - Qualifying Quantities for Safety Reporting**

Not Listed

**Germany - TRGS 505 - Specific Lead Regulations**

Not Listed

**Germany - TRGS 511 - Specific Ammonium Nitrate Regulations**

Not Listed

## Environment

**Germany - TA Luft - Types and Classes**

Not Listed

**Germany - TA Luft - Emission Limits for Carcinogenic Substances**

Not Listed

**Germany - TA Luft - Emission Limits for Fibers**

Not Listed

**Germany - TA Luft - Emission Limits for Inorganic Dusts**

Not Listed

**Germany - TA Luft - Emission Limits for Inorganic Gases**

Not Listed

**Germany - TA Luft - Emission Limits for Organic Substances**

Not Listed

**Germany - Water Classification (VwVwS) - Annex 1**

Not Listed

**Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes**

Not Listed

**Germany - Water Classification (VwVwS) - Annex 3**

Not Listed

## United States

### Labor

**U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**

Not Listed

**U.S. - OSHA - Specifically Regulated Chemicals**

Not Listed

### Environment

**U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**

Not Listed

**U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**

Not Listed

**U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities**

Not Listed

**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs**

Not Listed

**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs**

Not Listed

**U.S. - CERCLA/SARA - Section 313 - Emission Reporting**

Not Listed

**U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing**

Not Listed

## United States - California

### Environment

**U.S. - California - Proposition 65 - Carcinogens List**

Not Listed

**U.S. - California - Proposition 65 - Developmental Toxicity**

Not Listed



**U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)**

Not Listed

**U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)**

Not Listed

**U.S. - California - Proposition 65 - Reproductive Toxicity - Female**

Not Listed

**U.S. - California - Proposition 65 - Reproductive Toxicity - Male**

Not Listed

## United States - Pennsylvania

### Labor

**U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List**

Not Listed

**U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances**

Not Listed

## 15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

## Section 16 - Other Information

**Last Revision Date**

- 08/May/2014

**Preparation Date**

- 03/February/2014

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**Key to abbreviations**

NDA = No Data Available