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

1.1 Product identifier

Product Name
- UltraPly™ TPO Membrane & Flashing Series

Synonyms

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

Relevant identified use(s)
- Construction: Roofing Material

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
- (703) 527-3887 - CHEMTREC - International

Section 2: Hazards Identification

EU/EEC

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
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 elements(s) required

2.3 Other hazards
OSHA HCS 2012
Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard) this product is exempt as an article under stated normal conditions of use.

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
Under Canadian regulations (Workplace Hazardous Materials Information System (WHMIS) - Hazardous Products Act (HPA), Section 11(1)), these product(s) are exempt and considered manufactured article(s) under stated normal conditions of use.

2.4 Other information
This material, as an article, does not legally require an SDS.

See Section 12 for Ecological Information.

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identifiers</th>
<th>%</th>
<th>LD50/LC50</th>
<th>Classifications According to Regulation/Directive</th>
<th>Comments</th>
</tr>
</thead>
</table>
| 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, get medical attention.

**Eye**
- 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 (CO2).

**Unsuitable Extinguishing Media**
- None known.

5.2 Special hazards arising from the substance or mixture

**Unusual Fire and Explosion Hazards**
- Does not present any special fire or explosive hazards.

**Hazardous Combustion Products**
- Upon reaching temperatures of combustion, produces corrosive and/or toxic fumes.

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
- Store in a cool, dry, 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.

Key to abbreviations
ACGIH = American Conference of Governmental Industrial Hygiene
NIOSH = National Institute of Occupational Safety and Health
OSHA = Occupational Safety and Health Administration
STEV = Short Term Exposure Value
TWA = Time-Weighted Average Exposure Value
TWAEV = Time-Weighted Average Exposure Value
STEL = Short Term Exposure Limits are based on 15-minute exposures

Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Appearance/Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Form</td>
<td>Solid</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Black and white sheet, white and gray sheet, tan and gray sheet, gray and gray sheet, white sheet with fleece back membrane, white sheet, grey sheet, or tan sheet. Essentially no odor.</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Black, white, gray, and tan.</td>
</tr>
<tr>
<td>---------------</td>
<td>-----------------------------</td>
</tr>
</tbody>
</table>

**General Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Specific Gravity/Relative Density</td>
<td>= 0.94 Water=1</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Insoluble</td>
</tr>
<tr>
<td>pH</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Specific Gravity/Relative Density</td>
<td>= 0.94 Water=1</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Volatility</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not relevant</td>
</tr>
<tr>
<td>UEL</td>
<td>Not relevant</td>
</tr>
<tr>
<td>LEL</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Autoignition</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not flammable.</td>
</tr>
</tbody>
</table>

**Environmental**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octanol/Water Partition coefficient</td>
<td>Data lacking</td>
</tr>
</tbody>
</table>

**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**

- No data available

**10.5 Incompatible materials**

- No data available.

**10.6 Hazardous decomposition products**

- Thermal decomposition could produce CO, CO2, and Oxides of Nitrogen.

---

**Section 11 - Toxicological Information**

**11.1 Information on toxicological effects**

**Other Material Information**

- This material is an article that does not release or otherwise result in exposure to a hazardous chemical under normal use. The information provided below is for components only and is not expected to be applicable to the material as a whole.

**GHS Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>EU/CLP • Not relevant</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Not relevant</td>
</tr>
<tr>
<td>Potential Health Effects</td>
<td></td>
</tr>
<tr>
<td>--------------------------</td>
<td></td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
</tr>
<tr>
<td>Acute (Immediate)</td>
<td></td>
</tr>
<tr>
<td>· Under normal conditions of use, no health effects are expected.</td>
<td></td>
</tr>
<tr>
<td>Chronic (Delayed)</td>
<td></td>
</tr>
<tr>
<td>· Under normal conditions of use, no health effects are expected.</td>
<td></td>
</tr>
<tr>
<td><strong>Skin</strong></td>
<td></td>
</tr>
<tr>
<td>Acute (Immediate)</td>
<td></td>
</tr>
<tr>
<td>· Under normal conditions of use, no health effects are expected.</td>
<td></td>
</tr>
<tr>
<td>Chronic (Delayed)</td>
<td></td>
</tr>
<tr>
<td>· Under normal conditions of use, no health effects are expected.</td>
<td></td>
</tr>
<tr>
<td><strong>Eye</strong></td>
<td></td>
</tr>
<tr>
<td>Acute (Immediate)</td>
<td></td>
</tr>
<tr>
<td>· Under normal conditions of use, no health effects are expected.</td>
<td></td>
</tr>
<tr>
<td>Chronic (Delayed)</td>
<td></td>
</tr>
<tr>
<td>· Under normal conditions of use, no health effects are expected.</td>
<td></td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td></td>
</tr>
<tr>
<td>Acute (Immediate)</td>
<td></td>
</tr>
<tr>
<td>· Under normal conditions of use, no health effects are expected.</td>
<td></td>
</tr>
<tr>
<td>Chronic (Delayed)</td>
<td></td>
</tr>
<tr>
<td>· Under normal conditions of use, no health effects are expected.</td>
<td></td>
</tr>
</tbody>
</table>

**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
- Material data lacking.

### 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

<table>
<thead>
<tr>
<th>14.1 UN number</th>
<th>14.2 UN proper shipping name</th>
<th>14.3 Transport hazard class(es)</th>
<th>14.4 Packing group</th>
<th>14.5 Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
</tr>
<tr>
<td>TDG</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
</tr>
<tr>
<td>ADN</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
</tr>
<tr>
<td>ADR/RID</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
</tr>
<tr>
<td>IATA/ICAO</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
</tr>
</tbody>
</table>

#### 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**

<table>
<thead>
<tr>
<th>Labor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada - WHMIS - Classifications of Substances</td>
</tr>
<tr>
<td>Not Listed</td>
</tr>
<tr>
<td>Canada - WHMIS - Ingredient Disclosure List</td>
</tr>
<tr>
<td>Not Listed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada - CEPA - Priority Substances List</td>
</tr>
<tr>
<td>Not Listed</td>
</tr>
</tbody>
</table>
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 (2002/95/EC) (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
<table>
<thead>
<tr>
<th>Not Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. - OSHA - Specifically Regulated Chemicals</td>
</tr>
<tr>
<td>Not Listed</td>
</tr>
</tbody>
</table>

### 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

- Chemical Safety Assessment is not required.

### Section 16 - Other Information

- **Last Revision Date**: 10/June/2015
- **Preparation Date**: 16/August/2012
- **Disclaimer/Statement of Liability**
  - The information contained herein is based on data considered accurate which has been obtained from other companies and organizations. However, no warranty or representation is expressed or implied that the information, is accurate, complete or representative. Firestone Building Products Company, LLC assumes no responsibility for injury to the buyer, the buyer’s employees, or any third persons, if reasonable safety procedures are not followed. Additionally, Firestone Building Products Company assumes no responsibility for injury to buyer, the buyer's employees, or any third persons caused by abnormal use of this material, even if reasonable safety
procedures are followed.

Key to abbreviations
NDA = No Data Available