SAFETY DATA SHEET
SBS MODIFIED BITUMEN WATERPROOFING MEMBRANE

SECTION I: IDENTIFICATION

Trade names:

Use:
Membranes are used for all types of roofing needs, air barrier and waterproofing protection.

Manufacturers and distributors:
- SOPREMA Canada: 1675 Haggerty Street, Drummondville (Quebec) J2C 5P7, Tel.: 819 478-8163
- SOPREMA Inc.: 44955 Yale Road West, Chilliwack (B.C.) V2R 4H3, Tel.: 604 793-7100
- SOPREMA USA: 310 Quadral Drive, Wadsworth (Ohio) 44281, Tel.: 1 800 356-3521
- SOPREMA Gulfport: 12251 Seaway Road, Gulfport (Mississippi) 39503, Tel.: 228 701-1900

In case of emergency:
- SOPREMA (8:00am to 5:00pm): 1 800 567-1492
- CANUTEC (Canada) (24h.): 613 996-6666
- CHEMTREC (USA) (24h.): 1 800 424-9300

Bitumen membrane. Asphalt odor. Under normal use, this product is not expected to create any health or environmental hazard. Inhalation of dust or of asphalt fumes can cause a slight respiratory irritation and/or congestion.

SECTION III: COMPOSITION AND INFORMATION ON HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>NAME</th>
<th>CAS #</th>
<th>% WEIGHT</th>
<th>EXPOSURE LIMIT (ACGIH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bitumen</td>
<td>8052-42-4</td>
<td>30-70</td>
<td>TLV-TWA: 0.5 mg/m³</td>
</tr>
<tr>
<td>Self-adhesive membranes contain:</td>
<td></td>
<td></td>
<td>TLV-STEL: Not established</td>
</tr>
<tr>
<td>Highly hydrotreated naphthenic oil</td>
<td>64742-52-5</td>
<td>0-30</td>
<td>Asphalt fumes Not established</td>
</tr>
<tr>
<td>Calcium Carbonate</td>
<td>471-34-1</td>
<td>0-60</td>
<td>TLV-TWA: 10 mg/m³</td>
</tr>
<tr>
<td>Calcium borate</td>
<td>9003-55-8</td>
<td>0-15</td>
<td>TLV-STEL: Not established</td>
</tr>
<tr>
<td>FR products contain:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fire retardant</td>
<td>Proprietary</td>
<td>1-5</td>
<td></td>
</tr>
<tr>
<td>FR Plus products contain:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fibre glass mat</td>
<td>N/A</td>
<td>1-7</td>
<td>Not established</td>
</tr>
<tr>
<td>Fibre glass filament</td>
<td>65997-17-3</td>
<td>0-5-7</td>
<td>Not established</td>
</tr>
</tbody>
</table>

REINFORCEMENT
Some products may contain fibre glass, polyester or a mix of glass grid and polyester.

UNDERFACE AND SURFACE
Some membranes are protected by sand, talc, mineral granule, silicone paper, polyethylene or polypropylene film, aluminium, copper or stainless steel foil.
SBS Modified Bitumen Waterproofing Membrane

<table>
<thead>
<tr>
<th></th>
<th>N/A</th>
<th>6-20</th>
<th>Not established</th>
<th>Not established</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Silicone paper</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Polypropylene film</strong></td>
<td></td>
<td>2-10</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td><strong>Polyethylene film</strong></td>
<td>N/A</td>
<td>2-10</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td><strong>Aluminium, copper or stainless steel foil</strong></td>
<td>N/A</td>
<td>4-15</td>
<td>Not established</td>
<td>Not established</td>
</tr>
</tbody>
</table>

1. The exposure to the substance above the limits of exposure is not likely to occur considering its form (incorporated in the mixture) and/or the provided use. The limit of exposure is given for reference only.

2. A proportion of crystalline silica can be present in the sand sprinkled on the top of some membranes. The crystalline silica contained in the sand is not likely to be found in the ambient air in concentration above the limit of exposure since the sand adheres to the surface of the membrane.

**SECTION III: POTENTIAL HEALTH EFFECTS**

**SKIN CONTACT**
The product can cause a mechanical irritation of the skin because of its rough surface. If the membrane is torch-applied, asphalt fumes can cause skin irritation. The asphalt fumes can cause an irritation of the skin. The contact with this product at high temperature can cause thermal burns.

**EYE CONTACT**
The product is not likely to cause effects to the eyes. If the membrane is torch-applied, asphalt fumes can be emitted of the product and cause irritations, redness and conjunctivitis to the eyes. The contact with this product at high temperature can cause thermal burns.

**INHALATION**
The product is not likely to cause effects on the respiratory system. If the membrane is torch-applied, asphalt fumes can be emitted of the product and cause irritations to the nose, the throat and the respiratory tracts, tiredness, headaches, dizziness, nausaeas and insomnia.

**INGESTION**
Exposure is not likely to occur by this route of entry under normal use of the product.

**SECTION IV: FIRST-AID MEASURES**

**SKIN CONTACT**
If there is presence of dust on the skin, wash gently with water and soap. In the event of contact with the product melted, do not try to remove the product of the affected area and rinse the area affected in cold water. Obtain immediate medical attention. At the end of each working day, clean all the parts of the body which came into contact with asphalt fumes. Clean the clothing contaminated by the asphalt fumes.

**EYE CONTACT**
Flush eyes with water for at least 15 minutes while holding eyelids open. Do not attempt to remove material from affected area without medical assistance. Obtain immediate medical attention.

**INHALATION**
Remove victim from contaminated place and restore breathing, if required.

**INGESTION**
The ingestion of this product is not very likely to occur.

**SECTION V: FIRE-FIGHTING MEASURES**

**FLAMMABILITY:** Not applicable

**EXPLOSION DATA:** Not applicable

**FLASH POINT:** Not applicable

**AUTO-IGNITION TEMPERATURE:** Not applicable

**FLAMMABILITY LIMITS IN AIR:** (% in volume) Not applicable

**FIRE AND EXPLOSION HAZARDS**

Fibreglass Filament: Fibreglass is not expected to be released. In 2001, IARC classified fibreglass as Group 3 “not classifiable as to its carcinogenicity to humans”. The American Conference of Governmental Industrial Hygienists (ACGIH) and the National Toxicology Program (NTP) classify the substance in Group 2B (possibly carcinogenic to humans) based on studies in which animals were injected with large quantities of fibreglass.

The other ingredients were not found to be carcinogenic or no information is available on that matter.

**TERATOGENICITY, EMBRIOTOXICITY, FETOTOXICITY**
No information available.

**REPRODUCTIVE TOXICITY**
No information available.

**MUTAGENICITY**
No information available.

**TOXICOLOGICALLY SYNERGISTIC MATERIALS**
No information available.

**POTENTIAL ACCUMULATION**
No information available.
Asphalt fumes are flammable. Torch, used to weld waterproofing membranes, can produce temperatures beyond 1100°C (2000°F). Avoid all contact with materials sensitive to these temperatures, as lead or plastic materials. Never work in an enclosed area where gas can accumulate. Shield air conditioning units and other protrusions on the roof with perlite panels or similar material when using the torch around them. Never use torch (es):
- When substrate(s) have been recently covered by solvent-based products (wait until it is dry).
- Near any combustible materials.
- Close to containers containing flammable liquids or materials (keep open flame at least 3 m [10’] away).
- Directly on combustible substrate or insulation.

Voids, holes or gaps in substrate or located nearby the welding zone can be protected against flame penetration. Particular precautions must be taken to keep combustible or heat sensitive insulation away from the torch flame. If wood fibre panels must be installed, use fireproof panels. Avoid presence of combustible materials near open flame. At all times and especially when leaving job site, make sure that there is no smouldering or concealed fire. In that case, strictly follow the safety measures. Job planning must allow for employee presence on the roof at least one hour after torch application. At the end of every day, use a heat detector gun to discover any unusually hot surface. Always have one ABC fire extinguisher on hand, filled and in perfect working order near each torch.

COMBUSTION PRODUCTS
 Burning of this material will produce thick black smoke. Irritating and/or toxic gases including Hydrogen Sulphide and Sulphur Dioxide, traces of metallic fumes may be generated by thermal decomposition or combustion.

FIRE FIGHTING INSTRUCTIONS
Evacuate the area. Wear self-contained breathing apparatus and appropriate protective clothing in accordance with standards. Approach fire from upwind and fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Always stay away from the containers at the time of the fire considering the high risk of explosion. Move the rolls of membrane from fire area if it can be done without risk. Cool the rolls of membrane with flooding quantities of water until well after fire is out.

EXTINGUISHING MEDIA: Foam, CO₂, sand, chemical powder.

SECTION VI: ACCIDENTAL RELEASE MEASURES
RELEASE OR SPILL
If hot material is spilled, allow enough time to cool completely and remove to a container for disposal. Wear appropriate breathing apparatus (if applicable) and protective clothing. Notify appropriate environmental agencies. Wash spill area with soap and water. Dispose of this material according to local environmental regulations.

SECTION VII: HANDLING AND STORAGE
HANDLING
SOPREMA’s products must be applied by qualified applicators who have received an adequate training, for the prevention and the protection (in particular for the use of the extinguishers) against accidents caused by use of combustible or flammable materials, of liquefied propane gas, open flame, and their material of installation. The present recommendations must be imperatively related to the knowledge of the employees before the application of the products to the building site. Check the construction and the composition of the systems of roof and the walls before welding. Ensure of the cleanliness of the places (debris).

Precautions of the use of the torch: Use only proper torching equipment in perfect working order. C.S.A. certified. Never modify torching equipment. Use only proper hoses suited for propane gas of less than 15 m (50’). Verify and tighten all the connections before the use of the equipment. Do not light the torch if a propane odor is present. Never seek a leak with a flame. Use a torch whose gas output is adjustable with stopping device. Follow the specifications, notices and documentations of the manufacturers.

STORAGE
Flashings must be stored in such a way to prevent any creasing, twisting, scratches and other damages of the roof. The materials must be protected adequately and stored permanently away from flames or welding sparks, protected from bad weather and any harmful substances. Store self-adhesive membranes away from the sun.
TERATOGENICITY, EMBRYOTOXICITY, FETOTOXICITY
No information available.

MUTAGENICITY
Crystalline Silica: None according to the available information.
No information available about the other ingredients.

SYNERGISTIC MATERIALS
Tobacco smoke increases the effects of silica dust on respiratory system. Simultaneous exposure to known carcinogens as benzo (a), pyrene, can increase the carcinogenicity of crystalline silica.

SECTION XII: ECOLOGICAL INFORMATION
ENVIRONMENTAL EFFECTS
No data.

BIODEGRADABILITY
This product is not biodegradable. No possible bioaccumulation and unlikely bioconcentration in the food chain.

SECTION XIII: DISPOSAL CONSIDERATIONS
WASTE DISPOSAL
This product is not hazardous waste. Consult local, provincial, territory or state authorities to know disposal methods. This material is not listed by the EPA as hazardous waste according to the Resource Conservation and Recovery Act (RCRA) of the United States. No Environmental Protection Agency (EPA) waste numbers are applicable for this product.

SECTION XIV: TRANSPORT INFORMATION
This product is not regulated by Department of Transportation (DOT) and Transportation Dangerous Goods (TDG).

SECTION XV: REGULATORY INFORMATION
DSL: All constituents of this product are included in the Domestic Substances List (Canada).
TSCA: All constituents of this product are listed on the Toxic Substances Control Act Inventory (TSCA – United States).
Prop. 65: This product contains chemicals known to the State of California to cause cancer or reproductive toxicity.

SECTION XVI: OTHER INFORMATION
GLOSSARY
ACGIH: American Conference of Governmental Industrial Hygienists (United States)
ANSI: American National Standards Institute (United States)
ASTM: American Society for Testing and Materials (United States)
CAS: Chemical Abstract Services
CFR: Code of Federal Regulations (United States)
CSA: Canadian Standardization Association
DOT: Department of Transportation (United States)
DSL: Domestic Substances List (Canada)
EPA: Environmental Protection Agency (United States)
GHS: Globally Harmonized System
IARC: International Agency for Research on Cancer
LD50/LC50: Less high lethal dose and lethal concentration published
NFP: National Fire Protection Association (United States)
NIOSH: National Institute for Occupational Safety and Health (United States)
NTP: National Toxicology Program (United States)
OSHA: Occupational Safety & Health Administration (United States)

RCRA: Resource Conservation and Recovery Act (United States)
TDG: Transportation of Dangerous Goods (Canada)
TLV-TWA: Threshold Limit Value – Time-Weighted Average
TSCA: Toxic Substances Control Act (United States)

References:
(1) Safety Data Sheet from the supplier

Code of SDS: CA U DRU SS FS 044
For information: 1-800-356-3521 (U.S.A.)
1 800 567-1492 (Canada)

The Safety Data Sheets of SOPREMA are available on Internet at the following site: www.soprema.us and www.soprema.ca

Update justification:
• GHS Format

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