

MSDS for SBS Bitumen Membrane

Section 1 – Identification

- Product Name: SBS Bitumen Membrane
- Intended Use: Roofing, waterproofing, and air/vapor barrier applications

Section 2 – Hazard(s) Identification

- General: In its finished membrane form the product is generally not classified as hazardous.
- When Heated: Heating (e.g., during torching) may release fumes that can cause irritation of the respiratory system, skin, and eyes.
- Hazard Statements:
 - May cause respiratory irritation if fumes are inhaled.
 - May cause skin irritation upon prolonged contact with hot material.
- **Precautionary Statements:** Read all safety instructions before use and use appropriate personal protective equipment (PPE).

Section 3 – Composition/Information on Ingredients

- Typical Ingredients:
 - Bitumen (Asphalt): CAS 8052-42-4 (approx. 30-70%)
 - Oxidized Bitumen: CAS 64742-93-4 (approx. 0–20%)
 - SBS (Styrene-Butadiene-Styrene) Polymer: CAS 9003-55-8 (approx. 0–15%)
 - Fillers (e.g., Calcium Carbonate): CAS 471-34-1 (approx. 0-60%)

- Surface Granules (e.g., Crystalline Silica): CAS 14808-60-7 (present in trace amounts on the surface)

• Note: Exact concentrations are proprietary and provided by the manufacturer.

Section 4 – First-Aid Measures

- Inhalation:
 - Remove affected person to fresh air immediately.
 - If breathing is difficult, administer oxygen and seek medical attention.
- Skin Contact:
 - Wash affected area immediately with soap and water.
 - Remove contaminated clothing and launder separately.
- Eye Contact:

– Rinse eyes with plenty of water for at least 15 minutes, lifting the eyelids periodically.

– Seek medical attention if irritation persists.

- Ingestion:
 - Rinse mouth thoroughly; do not induce vomiting.
 - Seek immediate medical advice if symptoms occur.

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Section 5 – Fire-Fighting Measures

General Information:

- The membrane is not flammable under normal conditions.
- When heated or burned, it may emit toxic combustion products (e.g., carbon monoxide, sulfur oxides, nitrogen oxides).
- Suitable Extinguishing Media:
 - Water spray, dry chemical, or carbon dioxide (CO₂) may be used.
- Firefighter Precautions:
 - Wear self-contained breathing apparatus (SCBA) and full protective gear.
 - Approach the fire from a safe distance and avoid exposure to fumes.

Section 6 – Accidental Release Measures

- Personal Precautions:
 - Wear appropriate PPE to avoid contact with dust or fumes.
 - Remove unnecessary personnel from the area.
- Environmental Precautions:
 - Prevent product runoff into drains or waterways.
- Methods for Containment and Clean-Up:
 - Allow hot material to cool before collection.
 - For solid residues, sweep up and collect in appropriate waste containers.
 - Use dust suppression measures if airborne particles are generated.

Section 7 – Handling and Storage

- Handling:
 - Handle only by trained personnel using proper PPE.
 - When torch-applying the membrane, ensure adequate ventilation to minimize
 - fume exposure.
- Storage:
 - Store in a cool, dry, and well-ventilated area away from sources of ignition.
 - Keep containers tightly closed and protected from weather conditions.
- Special Considerations:
 - Avoid exposure to excessive heat during storage or handling.

Section 8 – Exposure Controls/Personal Protection

- Engineering Controls:
 - Use adequate general and local ventilation when applying heat.
- Respiratory Protection:
 - In areas where fume concentrations may exceed occupational exposure limits, use a NIOSH-approved respirator.
- Skin Protection:
 - Wear chemical-resistant gloves and long-sleeved protective clothing.
- Eye Protection:
 - Use safety goggles or face shields when exposure to fumes is possible.
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Hygiene Measures:

– Wash hands and face thoroughly after handling the product.

Section 9 – Physical and Chemical Properties

- Appearance: Solid, flexible membrane (varies in color by product type).
- **Odor:** Characteristic asphalt odor.
- **pH:** Not applicable (non-aqueous).
- Melting/Softening Point: Varies with formulation; typically high enough to withstand service conditions.
- Flash Point: Not applicable in the finished membrane; note that heated bitumen may present a fire hazard.
- Vapor Pressure: Low under ambient conditions.
- Specific Gravity: Generally >1.0 (variable with formulation).
- Solubility: Insoluble in water.

Section 10 – Stability and Reactivity

- Chemical Stability:
 - Stable under normal ambient conditions.
- Conditions to Avoid:
 - Excessive heat or open flame.
- Incompatible Materials:
 - Strong oxidizers, strong acids, alkalis, and organic solvents.
- Hazardous Decomposition Products:

- In fire or thermal degradation, may release toxic gases such as CO, CO₂, NO_x, SO_x, and hydrogen sulfide.

Section 11 – Toxicological Information

- Acute Exposure:
 - Fumes may cause irritation to the respiratory tract, eyes, and skin.
 - Chronic Exposure:
 - Prolonged exposure to asphalt fumes (especially when heated) has been
 - associated with potential respiratory and dermal effects.
- Carcinogenicity:

- Components such as oxidized bitumen have been classified as "probably carcinogenic" (IARC Group 2A) under certain exposure conditions, though exposure in finished form is minimal.

• Other Effects:

- No significant acute toxicity is expected from incidental contact in its end-use state.

Section 12 – Ecological Information

• Ecotoxicity:

- The product in its applied form is not expected to pose an environmental hazard.

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• Persistence and Degradability:

- The membrane is designed for long-term durability; it is not biodegradable under normal conditions.

- Bioaccumulation:
 - No significant bioaccumulation is anticipated.
- Environmental Precautions:

 In the event of a spill, avoid dispersion into natural water bodies and follow local guidelines for cleanup.

Section 13 – Disposal Considerations

- Disposal Methods:
 - Dispose of in accordance with local, regional, and national regulations.
 - Recycle if possible or dispose of as hazardous waste.
- Waste Treatment:
 - Do not discharge into sewers or waterways.

– Empty containers should be triple-rinsed and disposed of in accordance with applicable regulations.

Section 14 – Transport Information

• General Transport Classification:

– In its finished state, the membrane is not classified as hazardous for transportation.

• UN Number & Proper Shipping Name:

- Not applicable for the end-use product; if altered (e.g., heated bitumen), consult applicable transport regulations.

- Transport Hazard Class:
 - Not regulated under normal conditions.

Section 15 – Regulatory Information

International Regulations:

- Components of the product are subject to TSCA (USA), DSL (Canada), and other regional inventories.

• Occupational Exposure Limits:

– Reference values for individual components (e.g., asphalt, crystalline silica) are provided in Section 8.

• Labeling and Classification:

- The product is not classified as hazardous under OSHA or WHMIS when used as intended.

Section 16 – Other Information

Revision Date: 2025.02.23

• Disclaimer:

- The information provided in this SDS is believed to be accurate and reliable as of

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the revision date. It is provided for safety purposes only and does not constitute a warranty.

Additional Comments:

– Users are advised to consult the supplier's current SDS before use, as formulations and regulations may change.

• Prepared By: Basekim

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