

Material Safety Data Sheet (MSDS)

for SBS Bitumen Membrane

SECTION 1: IDENTIFICATION

- **Product Name:** SBS Bitumen Membrane
- **Chemical Name:** Styrene-Butadiene-Styrene (SBS) Modified Bitumen
- **Synonyms:** Elastomeric Bitumen Membrane, SBS Modified Asphalt Membrane
- **Recommended Use:** Waterproofing and roofing applications
- **Manufacturer/Supplier:** ATDM Co

SECTION 2: HAZARDS IDENTIFICATION

- **Classification:** Non-hazardous under normal use conditions
- **Hazard Statements:**
 - May cause irritation to eyes, skin, and respiratory tract if heated or burned
 - Heated bitumen may release toxic fumes
- **Precautionary Statements:**
 - Avoid inhaling fumes from heated material
 - Use personal protective equipment (PPE) when handling

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- **Bitumen (Asphalt):** 50-80%
- **Styrene-Butadiene-Styrene (SBS) Polymer:** 5-20%
- **Fillers (Talc, Limestone, Silica, etc.):** 5-20%
- **Reinforcement (Polyester, Fiberglass, etc.):** 5-15%
- **Surface Coating (Mineral Granules, Sand, Polyethylene Film):** 1-10%

SECTION 4: FIRST AID MEASURES

- **Inhalation:** Remove victim to fresh air. Seek medical attention if symptoms persist.
 - **Skin Contact:** Wash with soap and water. If burned by hot bitumen, do not remove adhered material—seek medical help immediately.
 - **Eye Contact:** Flush with plenty of water for at least 15 minutes. Seek medical advice if irritation persists.
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- **Ingestion:** Not a typical route of exposure. Seek medical attention if necessary.

SECTION 5: FIRE-FIGHTING MEASURES

- **Suitable Extinguishing Media:** Dry chemical, carbon dioxide (CO₂), foam, or water spray
- **Hazardous Combustion Products:** Carbon monoxide (CO), carbon dioxide (CO₂), hydrogen sulfide (H₂S), and other toxic gases
- **Firefighting Instructions:** Use full protective gear and self-contained breathing apparatus (SCBA)

SECTION 6: ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Wear appropriate PPE to avoid skin contact
- **Environmental Precautions:** Avoid contamination of soil and waterways
- **Cleanup Procedures:** Allow to cool and solidify before disposal

SECTION 7: HANDLING AND STORAGE

- **Handling:** Avoid direct contact with heated bitumen. Use in well-ventilated areas.
- **Storage:** Store in a cool, dry place away from open flames and strong oxidizers

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- **Engineering Controls:** Ensure adequate ventilation when heating the product
- **PPE Requirements:**
 - **Respiratory Protection:** Use a respirator when fumes are present
 - **Skin Protection:** Heat-resistant gloves and long sleeves
 - **Eye Protection:** Safety glasses or face shield

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** Black, solid roll
- **Odor:** Slight petroleum odor
- **Melting Point:** 90-120°C
- **Flash Point:** >250°C
- **Solubility:** Insoluble in water

SECTION 10: STABILITY AND REACTIVITY

- **Stability:** Stable under normal conditions
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- **Hazardous Reactions:** None known
- **Conditions to Avoid:** Open flames, excessive heat
- **Incompatible Materials:** Strong oxidizers

SECTION 11: TOXICOLOGICAL INFORMATION

- **Routes of Exposure:** Inhalation, skin, and eye contact
- **Acute Toxicity:** Fumes from heated bitumen may cause respiratory irritation
- **Chronic Effects:** Prolonged exposure to bitumen fumes may lead to skin irritation or sensitization

SECTION 12: ECOLOGICAL INFORMATION

- **Environmental Impact:** Low under normal use conditions
- **Persistence and Degradability:** Not readily biodegradable
- **Bioaccumulative Potential:** Low

SECTION 13: DISPOSAL CONSIDERATIONS

- **Waste Disposal:** Dispose of in accordance with local regulations
- **Packaging Disposal:** Recycle if possible, or dispose of as per local regulations

SECTION 14: TRANSPORT INFORMATION

- **UN Number:** Not regulated
- **Proper Shipping Name:** Not classified as hazardous for transport
- **Transport Hazard Class:** N/A

SECTION 15: REGULATORY INFORMATION

- **Regulatory Compliance:** Complies with local and international safety regulations

SECTION 16: OTHER INFORMATION

- **Revision Date:** 2025.03.10
- **Prepared By:** ATDM Co