

# SAFETY DATA SHEET

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## SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

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**Product ID:** ARMT-00200  
**Product Name:** ArmorMastic 200 SB  
**Revision Date:** May 01, 2015 **Date Printed:** Feb 15, 2017  
**Version:** 1.0 **Supersedes Date:** N.A.  
**Manufacturer's Name:** Mar-flex Waterproofing & Building Products  
**Address:** 500 Business Parkway Carlisle, OH, US, 45005  
**Emergency Phone:** Chem-Trec: 1-800-424-9300  
**Information Phone Number:** 513-422-7285  
**Fax:** 513-422-7282  
**Product/Recommended Uses:**

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## SECTION 2) HAZARDS IDENTIFICATION

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### Classification:

Aspiration Hazard - Category 1  
Skin Sensitizer - Category 1  
Germ Cell Mutagenicity - Category 1B  
Carcinogenicity - Category 1B  
Flammable Liquids - Category 3  
Acute toxicity Oral - Category 5

### Pictograms:



### Signal Word:

Danger

### Hazardous Statements - Physical:

Flammable liquid and vapor

### Hazardous Statements - Health:

May be fatal if swallowed and enters airways  
May cause an allergic skin reaction  
May cause genetic defects.  
May cause cancer.  
May be harmful if swallowed

### Precautionary Statements - General:

If medical advice is needed, have product container or label at hand.  
Keep out of reach of children.  
Read label before use.

### Precautionary Statements - Prevention:

Avoid breathing dust/fume/gas/mist/vapors/spray.

Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves/protective clothing/eye protection/face protection.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical equipment.

Use only non-sparking tools.

Take action to prevent static discharges.

#### **Precautionary Statements - Response:**

IF SWALLOWED: Immediately call a POISON CENTER or doctor.

Do NOT induce vomiting.

IF ON SKIN: Wash with plenty of water.

If skin irritation or a rash occurs: Get medical advice/attention.

Specific treatment (see First-aid measures on this SDS).

Take off contaminated clothing. And wash it before reuse.

IF exposed or concerned: Get medical advice/attention.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

In case of fire: Use dry chemical, carbon dioxide, foam to extinguish.

Call a POISON CENTER/doctor, if you feel unwell.

#### **Precautionary Statements - Storage:**

Store locked up.

Store in a well-ventilated place. Keep cool.

#### **Precautionary Statements - Disposal:**

Dispose of contents/container to disposal recycling center. Waste management should be in full compliance with federal, state and local laws.

#### **Hazards Not Otherwise Classified (HNOC):**

None.

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### **SECTION 3) COMPOSITION / INFORMATION ON INGREDIENTS**

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<b>CAS</b>	<b>Chemical Name</b>	<b>% By Weight</b>
0064742-95-6	AROMATIC HYDROCARBON MIXTURE >C9	24% - 57%
0008052-42-4	BITUMENS	24% - 57%
0009003-55-8	SBS Polymer	16% - 22%

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

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### **SECTION 4) FIRST-AID MEASURES**

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#### **Inhalation:**

Remove source of exposure or move person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. If breathing is difficult, administer oxygen.

#### **Eye Contact:**

Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

**Skin Contact:**

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Remove material with mineral oil and then wash with soap and plenty of lukewarm, gently flowing water for duration of 15-20 minutes. If skin irritation or rash occurs: Get medical advice/attention. Store contaminated clothing under water and wash before reuse or discard. IF exposed or concerned: Get medical advice/attention.

Note: Skin contact with clothing saturated in mineral spirits can cause second degree burns.

**Ingestion:**

Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. If vomiting occurs naturally, lie on your side, in the recovery position.

**Most Important Symptoms and Effects, Both Acute and Delayed:**

Eye irritation, respiratory irritation, drying and cracking of skin, dizziness, fatigue, headache, unconsciousness or asphyxiation. Chronic effects of ingestion and subsequent aspiration into the lungs can cause pneumatocele (lung cavity) formation and chronic lung dysfunction. Repeated breathing of vapors can cause effects to liver and kidneys. Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

**Indication of Any Immediate Medical Attention and Special Treatment Needed:**

Perform gastric lavage in accordance with procedures for ingestion of petroleum products.

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**SECTION 5) FIRE-FIGHTING MEASURES**

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**Suitable Extinguishing Media:**

Dry chemical, foam, carbon dioxide. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Sand or earth may be used for small fires only.

**Unsuitable Extinguishing Media:**

Do not use direct water stream. Product will float and can be re-ignited on surface of water.

**Specific Hazards in Case of Fire:**

Hazardous decomposition materials (under fire conditions) include oxides of carbon.

When heated above flash point, material will release flammable vapors which can burn or be explosive in confined spaces if ignited. Do not mix with strong oxidants such as liquid chlorine or concentrated oxygen.

**Fire-fighting Procedures:**

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

**Special Protective Actions:**

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

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**SECTION 6) ACCIDENTAL RELEASE MEASURES**

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**Emergency Procedure:**

ELIMINATE all ignition sources (no smokes, flares, sparks or flames in immediate area).

Isolate hazard area and keep unnecessary people away. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

Do not touch or walk through spilled material.

If spilled material is cleaned up using a regulated solvent, the resulting mixture may be regulated.

**Recommended Equipment:**

Positive pressure, full-facepiece self-contained breathing apparatus (SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

**Personal Precautions:**

Avoid breathing vapor. Avoid contact with skin, eye or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

**Environmental Precautions:**

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

**Methods and Materials for Containment and Cleaning up:**

Contain and collect spilled materials with non-combustible, absorbent material and place in a container for disposal according to local regulations. Dispose via a licensed waster disposal contractor. Contaminated absorbent material may pose the same physical hazards as the product.

**SECTION 7) HANDLING AND STORAGE**

**General:**

- Wash hands after use.
- Do not get in eyes, on skin or on clothing.
- Do not breathe vapors or mists.
- Use good personal hygiene practices.
- Eating, drinking and smoking in work areas is prohibited.
- Remove contaminated clothing and protective equipment before entering eating areas.
- Eyewash stations and showers should be available in areas where this material is used and stored.

**Ventilation Requirements:**

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

**Storage Room Requirements:**

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight, strong oxidizers and any incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers can retain residue and may be dangerous.

Naked flames and smoking should not be permitted in storage areas. Exposure to liquids, vapors, mists or fumes should be minimized.

Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems in areas where this product is used and stored. Take precautionary measures against electrostatic discharge. To avoid fire or explosion, dissipate static electricity during transfer by ground and bonding containers and equipment before transferring material

**SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Eye protection:**

Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids.If additional protection is needed for entire face, use in combination with a face shield.

**Skin Protection:**

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory Protection:**

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers.

**Appropriate Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Chemical Name	OSHA STEL (ppm)	OSHA TWA (mg/m3)	OSHA TWA (ppm)	OSHA STEL (mg/m3)	OSHA Carcinogen	OSHA Skin designation	OSHA Tables (Z1, Z2, Z3)	NIOSH TWA (mg/m3)	NIOSH TWA (ppm)	NIOSH STEL (mg/m3)	NIOSH STEL (ppm)	NIOSH Carcinogen
AROMATIC HYDROCARBON MIXTURE >C9		2000	500				1					
BITUMENS												1

Chemical Name	ACGIH TWA (mg/m3)	ACGIH TWA (ppm)	ACGIH STEL (mg/m3)	ACGIH STEL (ppm)	ACGIH TLV Basis	ACGIH Carcinogen	ACGIH Notations
AROMATIC HYDROCARBON MIXTURE >C9							
BITUMENS	0.5				URT & eye irr	A4	A4; BEI

A4 - Not Classifiable as a Human Carcinogen, BEI - Substances for which there is a Biological Exposure Index or Indices, irr - Irritation, URT - Upper respiratory tract

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## SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

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### Physical and Chemical Properties

Density	10.01
% Solids By Weight	N/A
Density VOC	5.97
% VOC	59.62%
Specific Gravity	1.20

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Appearance	Dark Liquid
Odor Threshold	N/A
Odor Description	Mild Petroleum
pH	N/A
Water Solubility	Insoluble
Flammability	N/A
Flash Point Symbol	N/A
Flash Point (PMCC)	104 °F
Viscosity	N/A
Lower Explosion Level	N/A
Upper Explosion Level	N/A
Vapor Pressure	0.02 mmHg
Vapor Density	> 4
Freezing Point	N/A
Melting Point	N/A
Low Boiling Point	300 °F
High Boiling Point	350 °F
Auto Ignition Temp	N.A.
Decomposition Pt	N/A
Evaporation Rate (Butyl Acetate=1)@77 F	0.2
Coefficient Water/Oil	N/A

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## SECTION 10) STABILITY AND REACTIVITY

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### Stability:

The product is stable under normal storage conditions.

### Conditions to Avoid:

Avoid heat, sparks, flame, high temperature, freezing and contact with incompatible materials.

### Hazardous Reactions/Polymerization:

Will not occur.

### Incompatible Materials:

Strong acids, alkalis, and oxidizers such as liquid chlorine, halogens, hydrogen peroxide, oxygen.

**Hazardous Decomposition Products:**

Carbon monoxide, carbon dioxide from heating

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**SECTION 11) TOXICOLOGICAL INFORMATION**

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**Likely Route of Exposure:**

Inhalation, ingestion, skin absorption, eye contact.

**Skin Corrosion/Irritation:**

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin.

**Serious Eye Damage/Irritation:**

Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

**Respiratory/Skin Sensitization:**

May cause an allergic skin reaction

**Germ Cell Mutagenicity:**

May cause genetic defects.

**Carcinogenicity:**

May cause cancer.

**Reproductive Toxicity:**

No data available

**Specific Target Organ Toxicity - Single Exposure:**

No data available

**Specific Target Organ Toxicity - Repeated Exposure:**

No data available

**Aspiration Hazard:**

May be fatal if swallowed and enters airways

**Acute Toxicity:**

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

0008052-42-4 BITUMENS

LC50 (Rodent - rat, Inhalation) : >94.4 mg/m<sup>3</sup>, Toxic effects : Details of toxic effects not reported other than lethal dose value.

LD50 (Rodent - rat, Oral) : >5000 mg/kg, Toxic effects : Gastrointestinal - hypermotility, diarrhea.

**Potential Health Effects - Miscellaneous**

0008052-42-4 BITUMENS

Is an IARC carcinogen. Occupational exposures to straight-run bitumens and their emissions during road paving are possibly carcinogenic to humans (Group 2B)

0064742-95-6 AROMATIC HYDROCARBON MIXTURE >C9

The following medical conditions may be aggravated by exposure: skin disorders. Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

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**SECTION 12) ECOLOGICAL INFORMATION**

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**Toxicity:**

No data available

**Persistence and Degradability:**

No data available.

**Bio-accumulative Potential:**

No data available.

**Mobility in Soil:**

No data available.

**Other Adverse Effects:**

No data available.

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**SECTION 13) DISPOSAL CONSIDERATIONS**

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**Waste Disposal:**

Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

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**SECTION 14) TRANSPORT INFORMATION**

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**U.S. DOT Information:**

UN number: N/A  
 Proper shipping name: Not regulated, non-bulk  
 Hazard class: N/A  
 Packaging group: N/A  
 Hazardous substance (RQ): No data available  
 Toxic-Inhalation Hazard: No data available  
 Marine Pollutant: No data available  
 Note / Special Provision: No data available

**IMDG Information:**

UN number: UN1999  
 Hazard class: 3  
 Packaging group: III  
 Proper shipping name: Tars, liquid including road oils and cutback bitumens  
 Note / Special Provision: No data available

**IATA Information:**

UN number: UN1999  
 Proper shipping name: Tars, liquid including road oils and cutback bitumens  
 Hazard class: 3  
 Packaging group: III  
 Marine Pollutant: No data available  
 Note / Special Provision: No data available

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**SECTION 15) REGULATORY INFORMATION**

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CAS	Chemical Name	% By Weight	Regulation List
0064742-95-6	AROMATIC HYDROCARBON MIXTURE >C9	24% - 57%	SARA312,VOC,TSCA,TSCA_UVCB - CHEMICAL SUBSTANCES OF UNKNOWN OR VARIABLE COMPOSITION, COMPLEX REACTION PRODUCTS AND BIOLOGICAL MATERIALS
0008052-42-4	BITUMENS	24% - 57%	SARA312,IARCCarcinogen,TSCA,TSCA_UVCB - CHEMICAL SUBSTANCES OF UNKNOWN OR VARIABLE COMPOSITION, COMPLEX REACTION PRODUCTS AND BIOLOGICAL MATERIALS
0009003-55-8	SBS Polymer	16% - 22%	SARA312,VOC,IARCCarcinogen,TSCA

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## SECTION 16) OTHER INFORMATION

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### Glossary:

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG- Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- ESE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL- Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ- Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA- Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

### HMIS

Health	* 3
FLAMMABILITY	2
Physical Hazard	0
Personal Protection	J

(\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks

### Version 1.0:

Revision Date: May 01, 2015

First Edition.

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