

Material Safety Data Sheet

MSDS-1001-06 Rev. 2013-11-26

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Product Name SBS or SBS/SEBS Modified Bitumen Roofing and Waterproofing Membrane
Chemical Name Mixture
Trade Names ECO TORCH SBS®, ICE & MOISTURE BLOCK SBS®, FASTORCH SBS®, FIREGUARD SBS®,
FIREGUARDFASTORCH SBS®, LAYFAST SBS®, LAYFLAT SBS®, METALFLEX SBS®,
SHINGLE STARTER ROLL®, SUPERCAP SBS®, SUPERFLEX SBS®
Manufacturer MBTechnology
Address 188 South Teilman Avenue, Fresno, CA 93706-1334 U.S.A.
Phone (559) 233-2181
Website www.mbtechnology.com
Emergency Phone (559) 233-2181

SECTION 2 PRODUCT COMPONENTS / INGREDIENTS

COMPONENT NAME	COMMON NAME	CAS NUMBER
Petroleum Asphalt	Bitumen	8052-42-4, 64742-93-4
Hydrotreated Heavy Naphthenic Distillate (petroleum)	Process Oil	64742-34-3, 64741-96-4, 64742-52-5
Heavy Naphthenic Extract (petroleum)	Oil	64742-11-6
Styrene-Butadiene-Styrene	SBS Rubber	9003-55-8
Styrene-Ethylene/Butylene-Styrene	SEBS Rubber	66070-58-4
Recycled Tire	Recycled Tire Rubber	Mixture
Calcium Carbonate (asbestos-free)*	Limestone	1317-65-3
Crystalline Silica in the form of Quartz	Sand	14808-60-7
Continuous Filament Glass Fiber	Fiberglass Mat	65997-17-3
Polyester Fibers	Polyester Mat	Mixture
Ammonium Polyphosphate	Ammonium Polyphosphate	68333-79-9, 14728-39-9
Decabromodiphenyl Oxide	DBDPO	1163-19-5
Calcium Borate	Colemanite	1318-33-8
Mineral Granules	Roofing Granules	Mixture
Polyolefin Film	PE, PP Film	9002-88-4
Aluminum Foil	Aluminum Foil	7429-90-5
Copper Foil	Copper Foil	7440-50-8

* (Particulate matter containing no asbestos and less than detect levels of crystalline silica)

NOTE: Products made may not include every ingredient listed above.
Asbestos is not used as a raw ingredient in the manufacture of any MBT product.
MBT's products are asbestos free. (See Section 16 for additional information)

Distributed by Best Materials LLC
For more information call:
1-800-474-7570, 602.272.8128
Website: <http://www.bestmaterials.com>
E-mail: sales@BestMaterials.com

SECTION 3 HAZARDS INFORMATION

EMERGENCY OVERVIEW Dark mat with or without sand/granules/aluminum. Asphalt Odor.
Under normal conditions of use and handling, this product is not expected to create any health or safety hazards. Vapors generated during installation may cause irritation of eyes, nose, throat and respiratory tract.

POTENTIAL HEALTH EFFECTS

Skin Contact May cause skin irritation. Contact with hot or molten material can cause thermal burns.
Skin Absorption N/A
Eyes Overexposure to product vapor/fumes/dust during installation may cause irritation and/or redness. Contact with hot or molten material can cause thermal burns.
Inhalation Overexposure to product vapor/fumes/dust during installation may cause irritation of upper respiratory tract, coughing, headaches, nausea and/or dizziness.
Ingestion Not intended to be ingested. If ingested, it may cause temporary irritation to the gastrointestinal (digestive) tract.

SECTION 4 FIRST AID MEASURES

NOTE TO PHYSICIAN Substances released from this product during cutting or heating may be irritating, but are not expected to produce any lasting health effects from acute exposure. Treatment should be directed toward removing the source of irritation with symptomatic treatment as necessary. If ingested, perform in accordance with procedures for ingestion of petroleum products.

Skin Contact Contact with dust - Wash gently with warm water and soap to remove.
Contact with hot/molten material – Do not attempt to remove material from affected area.
Flush skin with large amounts of cold water, pack with ice and seek medical attention.
Use olive or vegetable oil to remove the cooled material from the skin.
Skin Absorption N/A
Eyes Flush eyes with water for at least 15 minutes. Seek medical attention if irritation persists.
Inhalation Remove immediately to fresh air. Drink water to clear throat. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Ingestion Not intended to be ingested. If ingested DO NOT INDUCE VOMITING. Give water or clear liquids and seek medical attention.

Distributed by Best Materials LLC

For more information call:

1-800-474-7570, 602.272.8128

Website: <http://www.bestmaterials.com>

E-mail: sales@BestMaterials.com

SECTION 5 FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Flash Point	> 400°F	Flash Point Method	Cleveland Open Cup
Auto-Ignition Temperature	Not Determined	Flame Propagation Rate	Not Determined
Upper Flammability Limit (UFL)	Not Determined	Lower Flammability Limit (LFL)	Not Determined
Flammability Classification	Not Determined		

FIRE FIGHTING

General Fire Hazards	Normal fire fighting procedures should be followed to avoid inhalation of smoke and gases. Burning may produce thick, black irritating smoke. Wear self-contained breathing apparatus.
Extinguishing Media	Water/fog, carbon dioxide (CO ₂), foam, dry chemical, sand or steam.
Combustion Products	At elevated temperatures, product may generate vapors that can form flammable/explosive mixtures in the presence of air and a source of ignition. Hot/molten product at elevated temperatures will sustain combustion. Burning of this material will produce thick black smoke. Irritating and/or toxic gases including carbon monoxide, carbon dioxide, oxides of nitrogen, phosphorous and sulfur may be generated by thermal decomposition or combustion. Products of proprietary nature to be revealed in the event of emergency.
Fire Fighting Instructions	Fire fighters should wear full protective clothing including self contained breathing apparatus.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Release or Spill	Material is not normally involved in a spill/release scenario. If during installation, hot material is released, allow enough time for it to cool completely. Use of water spray will aid in solidifying molten material. Remove solid/cool material for disposal. Avoid sources of ignition. Ventilate the area if release occurs indoors. Scrap/remnant pieces cut off should be picked up and disposed of. If sweeping is necessary, use a dust suppressant.
Waste Disposal	Follow all local, state and federal regulations governing waste disposal.

Distributed by Best Materials LLC
For more information call:
1-800-474-7570, 602.272.8128
Website: <http://www.bestmaterials.com>
E-mail: sales@BestMaterials.com

SECTION 7 HANDLING & STORAGE

- Handling** Always wear recommended personal protective equipment.
In its intended state, product is in roll form and weight of rolls should be considered before lifting. Must be applied by qualified applicators who have received training relative to protection against accidents caused by use of combustible materials.
- Storage** Primary storage instructions are labeled on the product and are to be followed. Material should be stored ON END, in a cool, dry, well ventilated area and protected from the elements. Material should be stored away from sources of excessive heat, flame or source of ignition. Store in an area where the temperatures are above 50°F but below 90°F. Do not remove labels or protective coating until ready for application or use.

SECTION 8 EXPOSURE CONTROL / PERSONAL PROTECTION

EXPOSURE Due to product form, exposures to hazardous materials are not expected to occur. Use in a well ventilated area.

PERSONAL PROTECTION Upon application of product, all applicators should be equipped with protective gear for the eyes, hands and arms to prevent asphalt burns. Fire extinguishers should be present when applying material with a torch. Approved respiratory apparatus should be available when ventilation is inadequate.

- Eye Protection** Wear chemical safe goggles with side shields.
- Feet Protection** Wear safety work shoes.
- Body (Skin) Protection** Wear adequate protective clothing (long sleeved shirts and long pants is recommended). Wear heat resistant gloves.
- Respiratory Protection** Wear a properly fitted NIOSH approved respirator to protect against nuisance dust and/or when there is inadequate ventilation.

Distributed by Best Materials LLC
For more information call:
1-800-474-7570, 602.272.8128
Website: <http://www.bestmaterials.com>
E-mail: sales@BestMaterials.com

SECTION 9 PHYSICAL / CHEMICAL CHARACTERISTICS

Appearance	Black solid, with or without granules, metal foil or PE film.
Odor	Asphalt/Aromatic
Physical State	Solid
Chemical Formula	Mixture
Specific Gravity	> 1 (Variable)
Melting Point	Not Determined
Boiling Point	650°F @ 760 mmHg
Flash Point	> 400°F (Method and additional flammability data found in Sec. 5)
Freezing Point	Not Determined
Viscosity	N/A
pH	N/A
Vapor Density	N/A
Vapor Pressure	< 1 (mm Hg @ 20°C)
% Volatile by Volume	Not Determined
Solubility in H ₂ O	Negligible
Evaporation Rate (Butyl Acetate)	N/A
Molecular Weight	Not Determined (Variable)

SECTION 10 STABILITY / REACTIVITY DATA

Chemical Stability	Material is stable.
Incompatibility	Avoid contact with strong oxidizing agents, strong acids & alkalines, strong basis and organic solvents and greasy substances.
Hazardous Decomposition	Material does not decompose under normal conditions of use. Upon heating or burning, the material may decompose. The decomposition products from this material are those that would be expected from any organic (carbon-containing) material. These decomposition products may include dense smoke, carbon monoxide, carbon dioxide, oxides of nitrogen, phosphorous and sulfur, carbon particles and hydrocarbons.
Hazardous Polymerization	Will not occur.
Conditions of Reactivity	Avoid excessive heat.

Distributed by Best Materials LLC

For more information call:

1-800-474-7570, 602.272.8128

Website: <http://www.bestmaterials.com>

E-mail: sales@BestMaterials.com

SECTION 11 TOXICOLOGICAL INFORMATION

General Under normal use, this material is not expected to create any health hazards.

Acute (Short Term) Exposure Fumes from hot material during torching, may produce nausea and irritation of the upper respiratory tract.

Chronic (Long Term) Exposure Prolonged skin contact may cause slight irritation, skin dermatitis.

Carcinogenicity These products contain petroleum oils similar to one categorized by the International Agency for Research on Cancer (IARC) as causing skin cancer in mice after prolonged repeated contact. There is no evidence to show that similar results could be expected in humans. Any potential contact hazard can be minimized by following the precautions given in the preceding sections and other MSDS Sheets supplied by manufactures of the components used in application of these products.

Crystalline silica contained in the sand of sanded membranes are classified as carcinogenic to humans (Group 1) according to the International Agency for Research on Cancer (IARC). Respirable crystalline silica from sand (14808-60-7) is not expected to be released; sand is adhered to product and is >99.9% too large to become airborne or to be respirable.

Fiberglass continuous (non-respirable) (65997-17-3) Not classifiable as a human carcinogen (related to continuous filament glass fibers) according to American Conference of Governmental Industrial Hygienists (ACGIH).

SBS 9003-55-8, SEBS 66070-58-4 & Polyolefin Film 9002-88-4
Not Classifiable (Group 3) according to the International Agency for Research on Cancer (IARC).

SECTION 12 ECOLOGICAL INFORMATION

Data has not been determined specifically for these products.

No additional information available.

Distributed by Best Materials LLC

For more information call:

1-800-474-7570, 602.272.8128

Website: <http://www.bestmaterials.com>

E-mail: sales@BestMaterials.com

SECTION 13 DISPOSAL CONSIDERATIONS

These products are not regulated as a hazardous waste by the U.S. Environmental Protection Agency.

Dispose of waste material according to Local, State, Federal and Provincial environmental regulations.

SECTION 14 TRANSPORTATION

US D.O.T. Not regulated for transport.

T.D.G. Not regulated for transport.

Additional Information Contact the information number found in Section 1

SECTION 15 REGULATORY INFORMATION

General Product Information Asphalt fumes may contain trace amounts of the following California Proposition 65 Listed Substances as known to the state of California to Cause cancer or reproductive effects:

Poly nuclear aromatic hydrocarbons (benz(a)anthracene, benzo(b)fluoranthene, benzo(j)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene).

Component Analysis - State The following components appear on one or more of the following state hazardous substances lists:

COMPONENT	CAS #	CA	FL	MA	MN	NJ	PA
Petroleum Asphalt	8052-42-44	Yes	No	Yes	Yes	Yes	Yes
Calcium Carbonate	1317-65-3	No	No	Yes	Yes	No	Yes
Continuous Filament Glass Fiber	65997-17-3	No	No	No	Yes	No	No
Crystalline Silica in the form of Quartz	14808-60-7	No	No	Yes	Yes	Yes	Yes
Heavy Naphthenic Extract (petroleum)	64742-11-6	No	No	Yes	No	No	No
Hydrotreated Heavy Naphthenic Distillate (petroleum)	64742-34-3	No	No	Yes	No	No	No
	64741-96-4	No	No	Yes	No	No	No
	64742-52-5	No	No	Yes	No	No	No

Other Regulatory Information General Product Information - No additional information available.

Distributed by Best Materials LLC

For more information call:

1-800-474-7570, 602.272.8128

Website: <http://www.bestmaterials.com>

E-mail: sales@BestMaterials.com

SECTION 16 MISCELLANEOUS INFORMATION

Comments Calcium carbonate (1317-65-3) is used as a compound stabilizer and is encased in the asphaltic matrix. Fibrous glass filaments (65997-17-3) are encapsulated in the modified asphalt coating. Neither of which is expected to be released.

Sand (14808-60-7) and granules are applied to the asphalt surface(s) in such a manner that nominal release from the surface is expected.

Asbestos is a naturally occurring mineral. As with other natural minerals, asbestos may be found in trace amounts in many materials and can even be detected in the background air in many areas of the world.

Due to the nature of the specific use of these products, hazardous exposures are highly unlikely; however, all relevant data has been provided for reference.

MSDS Revision Summary	Current Issue Date	11-26-13
	Revision Number	06
	Previous Issue Date	05-28-08
	Original Date	06-18-84
	Changes made from previous	Added 3 new products

Disclaimer Information was obtained from sources, which we believe are reliable. The information herein is presented in good faith and believed to be accurate as of the revision date given. However, the information is provided without any representation or warranty, expressed or implied, regarding the accuracy or correctness. We assume no responsibility and expressly disclaim liability for any loss, damage, injury or expense (direct, incidental or consequential) to the buyer, the buyer's employees, or any third party persons, arising out of the use of these products. It is the buyer's responsibility to ensure that its activities and the activities of all persons connected to the use of these products to comply with all Local, State and Federal Laws.

Distributed by Best Materials LLC
For more information call:
1-800-474-7570, 602.272.8128
Website: <http://www.bestmaterials.com>
E-mail: sales@BestMaterials.com