

HEATLOK® | ABS MEMBRANE

AIR BARRIER SYSTEM



SAFETY DATA SHEET

SECTION 1: PRODUCT & COMPANY INFORMATION

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

Manufacturer/Distributor:
Demilec, Inc.
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Phone: 817-640-4900 / Fax: 817-633-2000
E-mail: Info@Demilec.com / Website: www.Demilec.com

Emergency Telephone in USA: CHEMTREC 800-424-9300. In Canada: CANUTEC 613-996-6666 or *666 (cellular).

SECTION 2: HAZARDS IDENTIFICATION

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

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS	CAS #	% WEIGHT	EXPOSURE LIMIT (ACGIH)	
			TLV-TWA	TLV-STEL
BITUMINOUS BLEND				
Bitumen	8052-42-4	60-100	0.5 mg/m ³ Asphalt fumes	Not established
Self-adhesive membranes contain: Highly hydrotreated naphthenic oil ¹	64742-52-5	3-7	Not established	Not established
Styrene butadiene copolymer ¹	9003-55-8	5-10	10 mg/m ³	Not established
UNDERFACE AND SURFACE Some membranes are protected by sand, talc, mineral granule, silicone paper, polyethylene or polypropylene film, aluminum, copper or stainless steel foil				
Silicone paper	N/A	7-13	Not established	Not established
Polyethylene film	9002-88-4	7-13	Not established	Not established

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

EFFECTS OF SHORT-TERM (ACUTE) EXPOSURE

Skin Contact	The product can cause a mechanical irritation of the skin because of its rough surface. The product may stain and stick to 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. The contact with this product at high temperature can cause thermal burns.
Inhalation	The product is not likely to cause effects to the respiratory system. If the membrane is burned, asphalt fumes can be emitted and cause irritations to the nose, the throat and the respiratory tracts, tiredness, headaches, dizziness, nausea, and insomnia.
Ingestion	Exposure is not likely to occur by this route of entry under normal use of the product.

EFFECTS OF LONG-TERM (CHRONIC) EXPOSURE

Skin Contact	The repeated or prolonged contact can cause irritation. (1)
Inhalation	Under normal use, the product is not likely to cause effects to the respiratory system.

Carcinogenicity	Due to the product form, exposure to hazardous dusts or fumes is not expected to occur. Information on carcinogenicity is given for reference only. This product is not classifiable as a carcinogen. Bitumen: Asphalt fumes may contain a variety of polycyclic aromatic hydrocarbons (PAH), some of which are associated with the potential of inducing skin cancer. Increasing amounts of PAH may be released if this product is heated above 200°C. Prolonged or repeated contact of PAH with skin may cause skin cancer where poor personal hygiene may be a contributing factor. Asphalt fumes contain substances such as Benzo(a)pyrene and Dibenzo(a,h)anthracene that are known to cause cancer in humans. In its 2013 monograph (Volume 103), the International Agency for Research on Cancer (IARC) conducted a review of the potential carcinogenicity of bitumen (the European term for asphalt). One of its conclusions was that the "occupational exposures to straight-run bitumens and their emissions during road paving are possibly carcinogenic to humans (group 2B)". (1) No information is available about other products.
Teratogenicity/ Embryotoxicity/ Fetotoxicity	No information available.
Reproductive Toxicity	No information available.
Mutagenicity	No information available.
Toxicologically Synergistic Materials	No information available.
Potential For Accumulation	No information available.

SECTION 4: FIRST AID MEASURES

Skin Contact	If there is presence of dust or stains on the skin, wash gently with water and soap. In the event of contact with the product melted, do not try to remove it from the affected area. Rinse in cold water. Obtain immediate medical attention.
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 5: FIRE FIGHTING MEASURES

Flammability	Not applicable
Explosion Data	Not applicable
Flash Point	Not applicable
Auto-Ignition Temperature	Not applicable
Flammability Limits In Air	Not applicable
Fire And Explosion Hazards	If the product is heated, take note that asphalt fumes are flammable. Do not use water on an asphalt fire.
Combustion Products	Burning of this material will produce thick black smoke. Irritating and/or toxic gases (including hydrogen sulphide and sulphur dioxide) and 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 that are in accordance with standards. Approach fire from upwind and fight it 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, CO ₂ , sand, and chemical powder.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Release or Spill	If hot material is spilled, allow enough time to cool completely and place it in 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 the material according to local environmental regulations.
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SECTION 7: HANDLING & STORAGE

Handling	Avoid contact with skin, eyes and clothes. Do not ingest. Wash hands after manipulation.
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. Self-adhesive membranes must be stored away from the sun.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION	
Hands	Wear resistant gloves.
Respiratory	If the threshold limit value (TLV) for dust is exceeded and if use is performed in a poorly ventilated confined area, use an approved respirator that is in accordance with standards.
Eyes	Wear safety goggles in accordance with standards.
Body	Wear adequate protective clothes.
Others	Eye bath and safety shower.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES	
Physical State	Solid
Odor and Appearance	Black membrane with asphalt odor
Odor Threshold	Not available
Vapor Pressure (20°C)	Not applicable
Vapor Density (air = 1)	Not applicable
Evaporation Rate (butyl acetate = 1)	Not applicable
Boiling Point (760 mm Hg)	Not applicable
Freezing Point	Not applicable
Specific Gravity (H ₂ O = 1)	Variable
Solubility in Water (20°C)	None
Volatile Organic Compound (V.O.C.) Content	Not measurable (0 g/L)
Viscosity	Not applicable

SECTION 10: STABILITY & REACTIVITY	
Stability	This material is stable.
Conditions of Reactivity	Avoid excessive heat.
Incompatibility	Avoid strong acids and strong alkalis, oxidizers organic solvents, and greasy substances.
Hazardous Decomposition Products	None identified
Hazardous Polymerization	None

SECTION 11: TOXICOLOGICAL INFORMATION	
TOXICOLOGICAL DATA	
No information is available.	
EFFECTS OF SHORT-TERM (ACUTE) EXPOSURE	
No information is available.	
EFFECTS OF LONG-TERM (CHRONIC) EXPOSURE	
Carcinogenicity	Bitumen: Data from experimental studies on animals and cultured mammalian cells indicate that laboratory-generated roofing asphalt fume condensates are genotoxic and cause skin tumours. (2) No information is available about other products.
Reproductive Effects	No information available
Teratogenicity/ Embryotoxicity/ Fetotoxicity	No information available
Mutagenicity	No information available
Synergistic Materials	No information available

SECTION 12: ECOLOGICAL INFORMATION	
Environmental Effects	No information available
Biodegradability	This product is not biodegradable. There is no possible bioaccumulation and unlikely bioconcentration in the food chain.

SECTION 13: DISPOSAL CONSIDERATION

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 EPA waste numbers are applicable for this product.
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SECTION 14: TRANSPORTATION INFORMATION

This product is not regulated by the Department of Transportation (DOT) and Transportation Dangerous Goods (TDG).

SECTION 15: REGULATORY INFORMATION

DSL	All constituents of this product are included in the Domestic Substances List (DSL - Canada).
TSCA	All constituents of this product are included in the Toxic Substances Control Act Inventory (TSCA - USA).
Prop. 65	This product does not contain chemicals known to the State of California to cause cancer or reproductive toxicity.

SECTION 16: OTHER INFORMATION**GLOSSARY**

CAS	Chemical Abstract Services
CSA	Canadian Standardization Association
GHS	Globally Harmonized System
LD50/LC50	Less high lethal dose and lethal concentration published
TLV - TWA	Threshold Limit Value - Time-Weighted Average
Reference	(1) Safety Data Sheet from supplier (2) NIOSH (2001) Hazard Review, Health Effects of Occupational Exposure to Asphalt. U.S. Department of Health and Human Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 2001-110.
Code of SDS	N/A
The Safety Data Sheets of Demilec are available on the internet at the following site: www.demilec.com	
Justification of the Update	New product

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