

# Material Safety Data Sheet

## 725 Air and Vapor Barrier

Date of Preparation: 05/15/08

Revision: 005

### Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** 725 Air and Vapor Barrier

**Chemical Formula:** Mixture

**Other Designations:** Self-Adhering Air and Vapor Barrier

**Manufacturer:** Versico LLC , 1285 Ritner Highway, Carlisle, PA 17013, Phone: 800-992-7663

24-Hour Emergency Phone Number: CHEMTREC (USA) 800-424-9300

### Section 2 – Hazards Identification

#### ☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Under normal conditions of use, this product is not expected to cause any unusual emergency hazards.

#### HMIS

H 2

F 1

R 0

PPE†

†Sec. 8

#### Emergency and Hazards Overview:

Repeated skin contact with rubberized asphalt may result in slight irritation. Prolonged or repeated skin contact with process oil in the rubberized asphalt may cause an increased risk of skin cancer, liver damage and reproductive effects based on laboratory animal testing. Skin cleansing studies, with aromatic oils, show that the toxic effects are not likely to occur in humans if good personal hygiene practices are used.

**Appearance:** Black membrane with fabric surface and mild asphaltic odor.

#### Potential Health Effects

**Primary Entry Routes:** Skin absorption, inhalation, eye contact, ingestion.

#### Acute Effects

**Inhalation:** Contact with dusts or fumes may cause irritation of the nose, throat and respiratory tract.

**Eye:** Irritation, if oil residue on hands is wiped or rubbed into eyes.

**Skin:** Possible irritation if oil residue is allowed to remain on skin for any length of time.

**Ingestion:** Ingestion is not considered to be likely due to the form of the material.

**Inhalation:** Inhalation is not considered to be likely due to the form of the material.

**Carcinogenicity:** See comments in Section 11. IARC Group 2 carcinogen.

**Chronic Effects:** Repeated or prolonged contact with oil in this product may cause skin irritation and cancer (see comments in Section 11).

**Hazards:** Flammable/Combustible  X  Acute Toxin  X  Chronic Toxin  X  Carcinogen  X   
Pressure  No  Reactive  No

### Section 3 – Ingredient Information

Hazardous Ingredients	CAS Number	% wt
Asphalt	8052-42-4	60-100
Aromatic Oil	64742-04-7	1-5
Additional Ingredients	CAS Number	% wt
SBR Copolymer	9003-55-8	10-30

This product is hazardous according to OSHA 29 CFR 1910.1200

### Section 4 - First Aid Measures

**Inhalation:** Due to the nature of this product, inhalation is unlikely.

**Eye Contact:** Immediately flush with plenty of water for at least 15 minutes. Call a physician.

**Skin Contact:** Wash promptly with soap and water. Remove all material under fingernails. See a physician if irritation develops.

**Ingestion:** Due to the nature of this product, ingestion is unlikely. Should ingestion occur, seek the assistance of a physician immediately.

*After first aid, get appropriate in-plant, paramedic, or community medical support.*

**Note to Physicians:** This product contains asphalt and mineral process oil.

**Special Precautions/Procedures:** Gloves are recommended to prevent skin contact. Provide adequate ventilation in confined area or respirators if material is heated. Clothing as needed to prevent skin contact.

### Section 5 - Fire-Fighting Measures

**Flash Point:** Above 232 °C (450° F)

**Flash Point Method:** COC.

**Autoignition Temperature:** Not determined.

**Extinguishing Media:** Standard fire extinguishers (CO<sub>2</sub>, foam, dry chemical)

**Unusual Fire or Explosion Hazards:** None known



**Hazardous Combustion Products:** Toxic gases or vapors, such as carbon monoxide, carbon dioxide, or oxides of nitrogen may be released in a fire.

**Fire-Fighting Instructions:** Wear NIOSH/MSHA approved respirator, or self-contained breathing apparatus. Avoid breathing smoke.

**Fire-Fighting Equipment:** Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

### Section 6 - Accidental Release Measures

**Spill /Leak Procedures:** The use of rubber gloves and/or barrier creams to minimize skin contact is recommended.

**Containment:** Unless molten, material will not flow.

**Cleanup:** Pick, scoop, or sweep up material for proper disposal.

**Regulatory Requirements:** This material is not an EPA, RCRA hazardous waste according to federal regulations. For Canada, observe all precautions noted above.

### Section 7 - Handling and Storage

**Handling Precautions:** Avoid removing release paper where spark may ignite flammable vapors from other products.

**Storage Requirements:** Store inside or under cover. Avoid prolonged exposure to extreme temperature.

**Regulatory Requirements:** The information contained in this Material Safety Data Sheet is based on the product as shipped.

According to preliminary toxicity testing during a two year study, asphalt fume condensate caused skin cancer in laboratory animals when repeatedly applied to skin and not washed off. The data also indicates that asphalt fume condensate is mutagenic to cells in bacterial tests. Occupational studies have provided no convincing evidence of lung cancer in humans exposed to petroleum asphalt alone without the presence of coal tar. It is prudent to avoid prolonged and repeated inhalation of heated asphalt fume and to use approved respiratory protection if engineering controls cannot maintain acceptable exposure levels. It is also prudent to avoid prolonged and repeated skin contact; **the use of protective gloves and/or barrier creams is highly recommended.**

A product containing a substance for which OSHA has established a permissible exposure limit (PEL) is considered hazardous. OSHA has established a PEL of 5mg/m<sup>3</sup> for worker exposure to airborne mists of mineral oil. Therefore, the presence of mineral oil brings this product within the provisions of OSHA hazard communication standard where the PEL reaches or exceeds 5mg/m<sup>3</sup>. According to the International Agency for Research on Cancer (IARC) monograph, there is evidence that oils of this type can induce cancer in animals under laboratory conditions. Inhalation of mists arising from products containing these materials may also present a cancer hazard. This specific product has not been tested in long-term, chronic exposure tests. The applicability of animal test data to determinations about the hazardous nature of lubricating oils to humans is unknown at this time. As with any industrial product, the practice of good personal hygiene is recommended where prolonged contact is anticipated.

This product has been reviewed in accordance with Sections 311 (MSDS Inventory) and Section 312 (Tier I/II Inventory) of the Superfund Amendments and Reauthorization Act of 1986 (40 CFR 370.2). The product meets the following categories: Immediate (acute) health hazard and delayed (chronic) health hazard.

### Section 8 - Exposure Controls / Personal Protection

#### Exposure Limits:

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH IDLH
	TWA	STEL	TWA	STEL	TWA	STEL	
Asphalt	none estab.	none estab.	5 mg/m <sup>3</sup> (airborne)	none estab.	none estab.	5 mg/m <sup>3</sup> (airborne).	none estab.
Aromatic Oil	5 mg/m <sup>3</sup> (airborne)	none estab.	none estab.	none estab.	none estab.	none estab.	none estab.

**Engineering Controls:**

**Ventilation:** If material is heated, provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

**Administrative Controls:**

**Respiratory Protection:** Provide adequate ventilation in confined area or respirators if material is heated.

**Protective Clothing/Equipment:** Clothing as needed to avoid skin contact. Gloves or barrier creams are recommended to prevent skin contact. Eye/face protection is not required for normal use.

**Other:** Make emergency eyewash stations/bottles and washing facilities available in work area.

**Contaminated Equipment:** Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

**Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. Avoid rubbing face/eyes while handling this material.

### Section 9 - Physical and Chemical Properties

**Flash Point:** Above 232 °C (450° F)

**Flash Point Method:** COC.

**Autoignition Temperature:** Not determined.

**Physical State:** Solid

**Appearance and Odor:** Black pliable adhesive sheet with slight petroleum odor

**Specific Gravity (H<sub>2</sub>O=1, at 4 °C):** 1.0 – 1.1

**Water Solubility:** Negligible

**Percent Volatile by Volume:** Negligible

**Volatile Organic Content:** Negligible

**Viscosity at 100° F:** Solid

**Viscosity at 40° F:** Solid

**Melting Point:** 185° F to 270° F

**Pour Point:** >300° F

### Section 10 - Stability and Reactivity

**Stability:** Stable under normal conditions.

**Possibility of Hazardous Reactions:** Will not occur.

**Chemical Incompatibilities:** Strong oxidizers or strong bases.

**Conditions to Avoid:** Extreme heat or open flames.

**Hazardous Decomposition Products:** Toxic gases or vapors, such as carbon monoxide, carbon dioxide, or oxides of nitrogen may be released in a fire.

### Section 11- Toxicological Information

#### Toxicity Data:

**Eye Effects:** Irritating

**Skin Effects:** May be irritating

**Oral toxicity:** Mineral oil mist: LD<sub>50</sub> (mouse)  
22,000 mg/kg

**Carcinogenicity:** Prolonged exposure to > 5mg/m<sup>3</sup> mineral oil mist may result in increased cancer risk. IARC Group 2 carcinogen.

### Section 12 - Ecological Information

**Ecotoxicity:** Not known

**Environmental Fate:** Not known

**Environmental Degradation:** Not known

**Soil Absorption/Mobility:** Not known

### Section 13 - Disposal Considerations

**Disposal:** Dispose of in accordance with all local, state, provincial, and federal regulations.

**Section 14 - Transport Information****DOT Transportation Data (49 CFR 172.101):****Highway/Rail (Bulk):** Not classified**Highway/Rail (non-bulk):** Not classified**International information****Vessel: IMDG Regulated:** Not classified **IMDG Not Regulated****Air: ICAO Regulated:** Not classified **ICAO Not Regulated****Section 15 - Regulatory Information****EPA Regulations:****SARA 311/312 Categories:** Acute Yes Chronic Yes Fire No Pressure No Reactive No**WHMIS Classification:** B4**State Regulations:** MA, MN, PA, RI, and WA**European Union Classification****Hazard Symbol:**

Toxic

**Risk Phrases:** R45**Safety Phrases:** S38, S45, S53**Section 16 - Other Information****Health and Environmental Label Language**

All ingredients contained in this product are included on the US EPA Toxic Substances Control Act (TSCA) inventory. All ingredients contained in this product comply with the requirements of the Canadian Environmental Protection Act (CEPA) and are listed on the Domestic Substance List (DSL) or Non-Domestic Substance List (NDSL).

**California Proposition 65 Information: Warning!** This product contains substances known to the State of California to cause cancer.

**Prepared By:** Research & Development**Revision Notes:** Formulation change section 3, formatting changes sections 2, 3, 8, and 9.**Additional Hazard Rating Systems:**

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