

MATERIAL SAFETY DATA SHEET

COLD PATCH LIQUID

1. PRODUCT AND COMPANY INFORMATION

Product Name: ECO Patch
Company Name: **Midland Asphalt Materials Inc.**
Address: 640 Young Street
Tonawanda, New York 14151-0388

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**FOR CHEMICAL EMERGENCY, SPILLS, LEAKS,
FIRE, EXPOSURE OR ACCIDENT CALL CHEMTREC
800-424-9300**

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Percent</u>	<u>CAS Number</u>	<u>Exposure Limit</u>
Asphalt	60-90 %	8052-42-4	5.0 mg/m ³ ACGIH TLV
Additives	10-40 %	Proprietary	N/A

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

- Black tar like liquid with hydrocarbon odor
- Exposure through inhalation and skin contact requires immediate medical attention.
- Asphalt products will burn in a fire, emitting carbon dioxide, carbon monoxide, sulfur oxides and various hydrocarbons.

Health: Inhalation – Inhalation exposure is possible during spraying or stirring processes and may cause nausea, vomiting, diarrhea, and irritation of the nose, throat and lungs.

Skin Contact – May cause skin irritation causing redness and burning of the skin. Contact with the fumes may cause inflammation of sensitive skin membranes.

Eye Contact – May cause eye irritation causing conjunctivitis, stinging, tearing and redness. Contact with heated material may cause thermal burns.

Ingestion – Ingestion of 3 -5 ounces of this material during normal operation may be fatal. Ingestion of this material is not likely during normal handling operations.

4. FIRST – AID MEASURES

Inhalation – Immediately move individual away from the exposure area and into fresh air. Seek medical attention immediately. If victim is not breathing, begin artificial respiration. If victim's breathing is difficult, administer oxygen.

Skin Contact – This material is not stored or handled at elevated temperatures, due to the flammable nature of the material. Any contact with material at ambient temperature should be rinsed from the skin with copious amounts of soap and water. If thermal burns occur seek medical attention immediately.

Eye Contact – Immediately move individual away from the exposure area and into fresh air. Flush eyes with copious amounts of water for at least 15 minutes while holding eyelids apart. Seek medical attention immediately. Contact lenses should not be worn while working with this chemical.

Ingestion – Do not induce vomiting – aspiration (inhaling fluid) may result. Ingestion of this material is not likely during normal handling operations. If victim becomes drowsy or unconscious, seek medical attention immediately. If spontaneous vomiting occurs, monitor for breathing difficulty. 3-5 ounces may be fatal.

5. FIRE FIGHTING MEASURES

NFPA Classification Health – 1 Fire – 1 Reactivity – 0 Other – N/A

Flash Point > 400°F

Extinguishing media – Extinguishing foam, CO₂, Dry Chemical

Fire Fighting Instructions – Avoid the use of water when fighting a fire involving this product. Wear an approved self-contained breathing apparatus with a full face piece operated with positive pressure and chemical resistant personal protective equipment.

Specific Hazards – May form carbon dioxide, carbon monoxide and sulfur dioxide.

Unusual Fire / Explosion Hazards – Containers of volatile asphalt have the potential to rupture in fires. Vapors from such products may explode if ignited in a confined area.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions – Wear the appropriate personal protective equipment including gloves, boots and tyvek suits.

Environmental precautions – Prevent runoff from entering sewers, streams and other bodies of water. Spent materials should be placed in compatible containers. Residual product may be absorbed with sand, clay, earth, floor absorbent or other absorbent material and place in appropriate containers. Dispose of material in accordance with all local, state and federal regulations.

7. HANDLING AND STORAGE

Handling – Ground lines and equipment used during transfer to reduce the possibility of static spark-initiated fire or explosion. Use non-sparking tools. Do not cut, grind, drill, weld, or reuse containers unless adequate precautions are taken against these hazards. Do not use excessive temperatures. Do not eat, drink or smoke in areas of use for storage. Empty containers may contain flammable, combustible or explosive vapor residue.

Storage – Store in tightly closed containers in a dry, isolated, well ventilated area away from sources of ignition and incompatibilities. Avoid extreme temperatures in storage.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures – Provide sufficient general and/or local exhaust ventilation to maintain exposure below the TLV(s).

Respirators – A NIOSH/MSHA approved air purifying respirator with an appropriate cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Use positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection. Avoid working with this material in closed areas with improper ventilation.

Eye/Face Protection – Safety glasses/goggles. A face shield is recommended for transfer operations or when splashing can occur. Eye washing facilities are to be readily available where splashing can occur. Do not wear contact lenses when handling this material.

Skin Protection – Use appropriate chemical resistant gloves when handling at room temperature. Long sleeved cotton shirt and full length cotton pants.

General Hygiene Considerations – Use good personal hygiene when handling asphalt products. Never wipe eyes or skin with PPE that has been exposed.

Other Protective Equipment – None recommended.

Occupational Exposure Limits – Hazardous Ingredients

	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Asphalt	N/A	5.0 mg/m ³ (fumes)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Black liquid, medium viscosity
Odor	Hydrocarbons
Boiling Point	> 500 °F
Melting Point	U/K
Evaporation Rate (Ether=1)	<1
Vapor Pressure (mm Hg)	<1 mmHg
Vapor Density (air=1)	>1
Solubility (Water).....	<0.1%
Specific gravity (water=1).....	0.93-1.0
% Volatile (By volume @ 68 deg F)	0-10%

10. STABILITY AND REACTIVITY

Stability – Stable under normal conditions.

Conditions to Avoid – Contact with strong oxidizers, intense heat, open flames, and ignition sources.

Materials to Avoid – Strong oxidizing agents.

Hazardous Decomposition Products – Carbon dioxide, carbon monoxide, sulfur dioxide.

Hazardous Polymerization – Will not occur.

11. TOXICOLOGY INFORMATION

<u>Type of Test</u>	<u>Route of Exposure</u>	<u>Species Observed</u>	<u>Dose Data</u>
Asphalt TDLo	Intramuscular	Rodent (rat)	5400 mg/kg/24W-I
Asphalt TDLo	Skin	Rodent (mouse)	130 mg/kg/81W-I

12. ECOLOGICAL INFORMATION

Environmental Hazards – No significant data is available for this material.

13. DISPOSAL CONSIDERATIONS

This material is not specifically listed as a hazardous waste in federal regulations. However it could be considered hazardous as toxic, corrosive, ignitable, or reactive characteristic waste according to federal or state regulations. Dispose of in accordance with local, state, and federal regulations at an approved disposal facility.

14. TRANSPORT INFORMATION

DOT – This material is not regulated under DOT regulations unless it is shipped at temperatures greater than 100 degrees C, it then becomes:

Elevated temperature liquid, nos, class 9, UN 3257, PG III

Placards – Class 9 and HOT

IATA – This material is not regulated under IATA regulations

IMDG – This material is not regulated under IMDG regulations

UN NO – UN 3257 (when shipped at temperatures at temperatures > 100 degrees C.)

15. REGULATORY INFORMATION

US Regulations:

ACGIHSee Section 8
CAA Section 212N/A
CERCLAN/A
IARCN/A
NTPN/A
OSHASee Section 8
SARA Title IIIN/A
TSCAAll known components of this product are listed and comply

State Regulations:

MA Substance ListAsphalt fumes
NJ RTK Hazardous Substance ListAsphalt fumes
PA Hazardous Substance ListAsphalt
Canadian WHMISN/A

16. OTHER INFORMATION

REVISION NUMBER	REVISION DATE
Draft	4/16/09

To the best of our knowledge, the information contained herein is accurate. However, neither Midland Asphalt Materials Inc. nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The possibility exists that the EU will not recognize this MSDS due to the fact that several components of the MSDS are reflective of ANSI Z 400.1-1998. Although ILO (International Labor Organization) has adopted ANSI Z.1-1998, ultimate disposition lies with the competent authority.