

Material Safety Data Sheet

Section I Product Information and Material Identification and Use

Manufacturer/Supplier	PLM Corporation
Address	7424 Bessemer Avenue Cleveland, OH 44127
Phone	800-387-1306
Fax	216-341-1950
Material name/Identifier	PLM EarthPatch Cold Mix Asphalt
Material Use	Repairing asphalt or concrete pavement, driveways, sidewalks, parking lots & utility cuts.
TDG Classification	Not Regulated
Date Prepared	April 2011

Section II Composition Information on Ingredients

<u>Ingredients</u>	<u>CAS Number</u>	<u>% by Weight</u>
Course & Fine Aggregate	Not Available	85-90
Asphalt	8052-42-4	3-6
Stabilizing Agent	Trade Secret	>0.7125
Proprietary Softening Agent	Not Available	1-5
Proprietary Mixture	Trade Secret	0.1-1.75

Section III Hazards Identification

Emergency Overview:	Contact with molten product can cause severe thermal burns. Exposure to vapors may irritate the eyes, skin and respiratory tract.
EYES:	Vapors can irritate the eyes.
SKIN:	Contact with molten product can cause severe thermal burns. Vapors may irritate the skin.
INGESTION:	Not considered a likely route of exposure during normal product use conditions.
INHALATION:	Low concentrations (50-100 ppm) can irritate the eye and respiratory tract and may cause nervousness, cough, nausea and headache. Prolonged exposure to concentrations between 250 and 600 ppm may cause pulmonary edema (fluid on the lungs) and bronchial pneumonia. Brief exposure to concentrations above 500 ppm can cause unconsciousness and may be fatal.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Inhalation of respirable dust may aggravate existing respiratory tract diseases. Exposure may aggravate existing skin conditions.

HMIS REACTIVITY:

<u>HMIS Classification</u>		<u>Hazard Rating</u>
Health	1	0 – Least/Minimal
Fire	0	1 – Slight
Reactivity	0	2 – Moderate
		3 – High/Serious
		4 – Extreme/Severe

Section IV First Aid Measures

EYES: If hot material splashes into eyes, immediately flush eyes with water. Do not attempt to remove particles from eyes. Take victim to physician at once.

SKIN: If molten asphalt contacts skin, cool immediately with cold water. For extensive burns obtain medical attention immediately. Do not use solvents to remove asphalt from skin.

INGESTION: If the material is swallowed, get immediate medical attention or advice – Do not induce vomiting.

INHALATION: Remove to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration.

Section V Fire Fighting Measures

General Fire Hazards: See Section IX for Flammability Properties. Irritating and highly toxic gases and fumes can evolve.

Hazardous Combustion Products: Oxides of carbon, hydrogen sulfide and sulfur oxides may be formed on combustion.

Extinguishing Media: Dry chemical, carbon dioxide, foam and /or water fog. Water may cause frothing.

Fire Fighting Equipment/Instructions: Firefighters should wear full protective clothing including self contained breathing apparatus.

NFPA Ratings:	<u>NFPA Ratings</u>	<u>Hazard Scale</u>
	Health 1	0 – Minimal
	Fire 0	1 – Slight
	Reactivity 0	2 – Moderate
		3 – Serious
		4 – Severe

Section VI Accidental Release Measures

Containment Procedures:

Contained spilled material and do not allow to flow into public sewers or water systems.

Clean-Up Procedures:

Shut off all ignitions sources. Allow material to harden and transfer into container for proper disposal.

Evacuation Procedures:

Isolate area. Keep unnecessary personnel away.

Special Procedures:

Unused material can be recycled. Landfill wastes at approved sites. Dispose of in accordance with Federal, State, and Local regulations.

Section VII Handling and Storage

Handling Procedures:

Avoid breathing fumes. Contact can cause severe burns. Use in well ventilated areas. Dusts created by drilling or grinding cured asphalt may irritate the eyes and respiratory tract. For such operations, used approved respirators and avoid breathing dust.

Storage Procedures:

Highly flammable and toxic fumes may build up in vapor spaces of storage tanks and transport compartments. Avoid breathing gases and keep ignition sources away from vents.

Section VIII Exposure Controls/Personal Protection

Component Exposure Limits: Asphalt (8052-42-4)

ACGIH: 0.5mg/m³ TWA (fume, inhalable fraction, as benzene soluble aerosol)

NIOSH: 5mg/m³ Ceiling (15 min, fumes)

Engineering Controls:

Use only in well ventilated areas.

Personal Protective Equipment:

Eyes/Face:

Chemical safety glasses or full face mask.

Skin:

Use impervious gloves.

Respiratory:

If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

General:

Eye wash fountain and emergency showers are recommended.

Section IX Physical & Chemical Properties

Appearance:

Black viscous fluid mixed with course and fine aggregate.

Odor:

Asphalt

Physical State:

Liquid

PH:

ND

Vapor Pressure:

N/A

Vapor Density:	>1
Boiling Point:	900°F
Melting Point:	ND
Solubility (H2O):	Insoluble
Specific Gravity:	1.041
Evaporation Rate:	N/A
VOC:	ND
Octanol/H2O	ND
Flash Point:	>400°F
Flash Point Method:	ND
Upper Flammability Limit (UFL):	ND
Lower Flammability Limit (LFL):	ND
Burning Rate:	ND
Auto Ignition:	ND

Section X Chemical Stability & Reactivity Information

Chemical Stability:	This is a stable material.
Chemical Stability/Conditions	
To Avoid:	Heat approaching flash and open flames.
Incompatibility:	Strong oxidizers.
Hazardous Decomposition:	Carbon monoxide, hydrogen sulfide, sulfur oxides.
Possibility of Hazardous Reactions:	Will not occur.

Section XI Toxicological Information

Acute Dose Effects:

A: General Product Information:

No information available for the product.

B: Component Analysis – LD50/LC50

Asphalt (8052-42-4)

Oral LD50 Rat: >5000 mg/kg

Dermal LD50 Rabbit: >2000 mg/kg

Proprietary Mixture:

Oral LD50 Rat: 2000 mg/kg

Dermal LD50 Rat: 2250 mg/kg

Dermal LD50 Rabbit: 3560 mg/kg

Carcinogenicity:

A: General Product Information

No information available for product.

B. Component Carcinogenicity

Asphalt (8053-42-4)

ACGIH: A4 – Not Classifiable as a Human Carcinogen (fume, coal tar-free)
NIOSH: Potential occupational carcinogen (roofing asphalt fumes & asphalt-based paints)
IARC: Supplement 7 [1987]: Monograph 35 [1985] (extracts of steam-refined and air-refined) Group 2B 9 (possibly carcinogenic to humans)

Section XII Ecological Information

Ecotoxicity:

A: General Product Information

No information is available for the product.

B: Component Analysis – Ecotoxicity – Aquatic Toxicity

Proprietary Mixture – Test & Species

96 Hr LC50 Pimephales promelas 728 mg/L

72 Hr EC50 Scenedesmus subspicatus 210 mg/L

Section XII Disposal Considerations

US EPA Waste Number & Descriptions

Component Waste Numbers:

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions:

All wastes must be handled in accordance with local, state and federal regulations. See Section VII for Handling Procedures. See Section VIII for Personal Protective Equipment recommendations.

Section XIV Transportation Information

US DOT Information:

Shipping Name: Not Regulated

Section XV Regulatory Information

US Federal Regulations

Component Analysis:

None of this product's components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations

Component Analysis – State

The following components appear on one or more of the following state hazardous substance lists:

<u>State</u>	<u>Asphalt Proprietary Mixture</u>	
California	Yes	No
Maine	Yes	Yes
Minnesota	Yes	No
New Jersey	Yes	Yes
Pennsylvania	Yes	Yes
Rhode Island	Yes	No

Component Analysis – WHMIS IDL

No components are listed in the WHMIS IDL.

Additional Regulatory Information

Component Analysis – Inventory

<u>Component</u>	<u>TSCA</u>	<u>CAN</u>	<u>EEC</u>
Asphalt	Yes	DSL	EINECS
Proprietary Mixture	Yes	DSL	EINECS

Section XVI Other Information

Other Information

The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer’s responsibility to ensure that its activities comply with Federal, State or Provincial, and Local laws.

Key/Legend

EPA	Environmental Protection Agency
TSCA	Toxic Substance Control Act
ACGIH	American Conference of Government Industrial Hygienists
IARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
NJTSR	New Jersey Trade Secret Registry