



# MATERIAL SAFETY DATA SHEET



## **PERMANENT COLD PATCH**

### **SECTION I PRODUCT IDENTIFICATION & EMERGENCY INFORMATION**

Material Name/Identifier..... Asphalt in a Bag Cold Patch  
 Material Use..... Repairing asphalt pavement, driveways and parking lots.  
 Trade name/Synonyms..... Asphalt in a Bag

Manufacturer/Suppliers Name and Address:  
 Cold Patch New Zealand Limited  
 55A Holliss Avenue  
 Cashmere  
 Christchurch 8022  
 New Zealand

Emergency Telephone #: +64 3 960 7373  
 TDG Classification Not Regulated

### **SECTION II HAZARDOUS INGREDIENTS DEFINED IN HPA**

<b>Ingredient</b>	<b>Case #</b>	<b>ACGIH TLV</b>	<b>Approximate Wt.</b>	<b>Pel</b>
A) Modified Liquid Asphalt N/A	8052-42-4	N/A	3-4%	
B) Mixture Petroleum Hydrocarbons N/A	68334-30-5	N/A	1-2%	
C) Aggregate N/A		N/A	90-96%	

### **SECTION III PHYSICAL DATA**

Physical State ----- Solids & Liquid Asphalt Mix  
 Odour & Appearance----- Petroleum odour, black tarry appearance  
 Odour Threshold (ppm)----- 1 ppm  
 Vapour Density (AIR=1)----- N/A  
 Vapour Pressure(mmHg)----- N/A  
 Boiling Point °C----- 145-375  
 Coefficient of Water/Oil Distribution----- Insoluble in water  
 Specific Gravity----- N/A  
 Freezing Point °F----- N/A  
 Evaporation Rate----- N/A  
 pH----- N/A  
 Percentage Volatile (by volume)----- 1% (approx.)

**SECTION IV****FIRE & EXPLOSION DATA**

Conditions of Flammability-----	Heating to flash point & external ignition source
Means of Extinction-----	Dry Chemical, Carbon Dioxide, Water, Fog Spray. DO NOT direct water stream into burning material
Flash Point (method)-----	Approx. 350°F(177°C)-Cleveland Open Cup
Upper Flammable Limit (% by volume)----	N/A
Lower Flammable Limit (% by volume)----	N/A
Auto-Ignition Temperature (0°C)-----	N/A
Hazardous Combustion Products-----	Carbon Monoxide, Carbon Dioxide, smoke and Oxides of Sulphur & Nitrogen
Sensitivity to Mechanical Impact-----	Not sensitive
Sensitivity to Static Discharge-----	Fumes from hot material may ignite

**SECTION V****REACTIVITY DATA**

Chemical Stability-----	Stable
Incompatibility (materials to avoid)-----	Strong oxidizing materials
Reactivity (under what conditions)-----	Non-reactive
Hazardous Decomposition of Bi-products-----	Carbon Monoxide, Carbon Dioxide, Aldehydes & other unidentified Compounds may form upon combustion
Hazardous Polymerization-----	Will not occur

**SECTION VI****TOXICOLOGICAL PROPERTIES**

Primary Routes of Entry-----	Inhalation – Skin – Eyes Contact
<b>Health Hazards, Acute &amp; Chronic</b>	
Eyes-----	Irritation
Skin-----	Irritation. May cause de-fatting & dermatitis of skin
Inhalation-----	Irritation. Repeated or prolonged exposure or fumes can cause liver or kidney damage
Exposure Limits-----	TWAV*
-----	Asphalt fumes- 5 mg./m <sup>3</sup>
-----	H <sub>2</sub> S fumes – 14 mg./m <sup>3</sup>
Carcinogenic-----	Not listed by IARC* or ACGIH* as carcinogen
Teratogenicity-----	N/A
Reproductive Toxicity-----	N/A
Mutagenicity-----	N/A
Synergistic Material-----	N/A

**SECTION VII****PREVENTATIVE MEASURES****Personal Protective Equipment**

Gloves-----	Oil impervious type
Eye-----	Chemical safety goggles
Respirator-----	Use full-face organic vapour cartridge Type if fumes exceed limits
Clothing-----	Long sleeve shirt, cuffless pants or overalls
Engineering Controls-----	Provide sufficient ventilation in confined/enclosed area. Use explosion- proof local exhaust as required to maintain allowable limit of fumes.
Leak & Spill Procedure-----	Contain spill. Remove all sources of ignition <b>DO NOT FLUSH</b> to sewers. Shovel into drums for re-use or disposal. Provide adequate ventilation of affected area. Use full protective equipment and breathing apparatus.
Waste Disposal-----	Dispose of waste to approve land fill site Or to license reclaimer in accordance with local government requirements.
Handling Procedure & Equipment-----	<b>DO NOT</b> heat material for use. Use only In well-ventilated areas. Keep away From ignition sources. Electrically ground containers or equipment to prevent static. Avoid skin contact and inhalation of fumes.
Storage Requirements-----	Can be stored outside in stockpiles. Also In closed containers and plastic bags.

**SECTION VIII****FIRST AID MEASURES**

Respiratory Protection-----	Evacuate to fresh air. Apply cardio- pulmonary resuscitation or oxygen if required. <b>Obtain medical attention.</b>
Skin Contact-----	Remove clothing and wash affected area thoroughly with soap & water. <b>DO NOT</b> use solvents to remove asphalt. In case of contact with hot material, cool part with water. <b>DO NOT ATTEMPT</b> to remove cooled asphalt. <b>Obtain immediate medical attention.</b>
Eye Contact-----	Flush with warm water for at least 15 min. Seek medical attention if irritation develops or persists.

