



**Bringing Integrity to the Surface.®**

## MATERIAL SAFETY DATA SHEET

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HMIS HAZARD RATING	
1	HEALTH
1	FIRE
0	REACTIVITY

### I. PRODUCT INFORMATION

TRADE NAME	<b>Polymer Modified Asphalt</b>	C.A.S. NUMBER <b>8052-42-4</b>
SYNONYMS	PG 64-28, PG 70-22, PG 70-28, PG 76-22, PG76-28, PG82-22, PG82-28	PRODUCT CODE NUMBER <u>9570T</u> , <u>PG64-28</u> , <u>9571T</u> , <u>PG70-22</u> , <u>9572T</u> , <u>PG70-28</u> , <u>9573T</u> , <u>PG76-22</u> , <u>9574T</u> , <u>PG76-28</u>

### II. PHYSICAL DATA

BOILING POINT @ 760 MM Hg ≈ 900°F	% VOLATILES BY VOLUME Negligible	SOLUBILITY IN H2O BY WEIGHT % Immiscible
SPECIFIC GRAVITY 1.0 ± 0.2 @ 60°F	MELTING POINT 80-160°F	EVAPORATION RATE (BUTYL ACETATE = 1) Not Applicable
VAPOR DENSITY (AIR = 1) > 5.0	VAPOR PRESSURE < 0.1 mmHg @ 70°F	APPEARANCE AND ODOR Brown-Black Semi-Solid with Petroleum Odor

### III. HAZARDOUS COMPONENTS

C.A.S. NUMBER	MATERIAL OR COMPONENT	%	HAZARD DATA
8052-42-4	(1) Asphalt	93.8-100	TLV/TWA-5mg/m <sup>3</sup> for asphalt fumes TLV/STEL-10 mg/m <sup>3</sup> for asphalt fumes
	(2) SBS Block Co-Polymers	0-6	
	(3) Proprietary Process Ingredients	0-2	

#### IV. HEALTH HAZARD INFORMATION

EXPOSURE LIMITS	TLV/TWA <b>5mg/m<sup>3</sup> for asphalt</b>	TLV/STEL <b>5 mg/m<sup>3</sup> for asphalt</b>	TLV/PEL <b>Not Established</b>	ODOR THRESHOLD LIMIT <b>Not Applicable</b>
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#### ROUTES OF EXPOSURE AND EFFECTS AS REQUIRED BY 29CFR1910.1200

INHALATION	<b>Asphalt fumes generated at high temperatures may cause irritation to the nose, throat, and respiratory system. Prolonged Exposure has caused bronchitis, pneumonia, and the abscess formation in laboratory animals. Hydrogen Sulfide (H<sub>2</sub>S) can evolve when this product is stored and handled at elevated temperatures. At low concentrations, H<sub>2</sub>S has the odor of rotten eggs. At higher concentrations, H<sub>2</sub>S odor is not apparent. The National Institute for occupational Safety and Health has determined that atmospheres containing 100 ppm or more of H<sub>2</sub>S are immediately dangerous to life and health.</b>
INGESTION	<b>High Viscosity oils, i.e. asphalt, have been shown to be less toxic when ingested than lower viscosity, higher volatility oils.</b>
SKIN ABSORPTION	<b>Skin Absorption could occur through normal skin contact and/or through wounds exposed to asphalt products. Effects may include irritation, dermatitis, and oil acne. Health effects are not expected if proper personal safety and hygiene is observed.</b>
SKIN CONTACT	<b>Serious burns can be caused by direct contact with molten asphalt. Asphalt and asphalt fumes, vapors, and mists, may increase skin photosensitivity.</b>
EYE CONTACT	<b>Contact with asphalt at elevated temperatures can cause corneal burns. Studies indicate that asphalt fumes are irritating to the eyes.</b>
ACUTE OVEREXPOSURE	<b>Over exposure to asphalt vapors and mists may cause headaches, dizziness, nausea, and eye and respiratory irritation. Any pre-existing skin or respiratory conditions may be aggravated by exposure to this product. Skin effects include irritation and dermatitis and oil acne.</b>
CHRONIC OVEREXPOSURE	<b>Chronic health effects are not expected if proper personal safety and hygiene is observed. Pre-existing skin disorders may be aggravated by repeated or prolonged exposure to this product.</b>

#### V. EMERGENCY AND FIRST AID PROCEDURES

INHALATION	<b>If breathing is difficult, move person to fresh air and seek prompt medical attention.</b>
INGESTION	<b>DO NOT induce vomiting. In general, emesis induction is unnecessary for high viscosity low volatility oils such as asphalt and grease. Avoid all digestible oils, fats and alcohol which may increase intestinal absorption. Seek medical attention.</b>
SKIN CONTACT	<b>Drench or immerse affected area in chilled water to assist in cooling the material and reducing discomfort. If burn covers more than 10% of the body, do not use iced water or cold packs as this may contribute to shock. Simply immerse the affected area in cool tap water. DO NOT Surgically remove, or use solvents to remove the asphalt. Use medicinal paraffin, vegetable oil, Vaseline or mineral oil. Seek qualified medical attention.</b>
EYE CONTACT	<b>Flush eyes with water for 15 minutes while holding eyelids open. If subject is wearing contact lenses, immediately seek ophthalmologist for treatment.</b>

## VI. SPECIAL PROTECTION INFORMATION

VENTILATION	Care should be taken to assure that the TLV/TWA of 5mg/m <sup>3</sup> for oil mist is not exceeded. Normal exterior application should not require the need for mechanical ventilation. Application must be made downwind from operator.	PERSONAL PROTECTIVE EQUIPMENT
RESPIRATORY PROTECTION	If needed, use an approved OSHA/NIOSH particulate and organic vapor canister respirator, or a positive atmosphere supplied air respirator as described in 29 CFR 1910.134.	DUST/ORGANIC VAPOR RESPIRATOR
EYE PROTECTION	Goggles and full-face shield are recommended when handling this material.	SAFETY GLASSES
SKIN PROTECTION	Flannel-lined Neoprene or Nitrile gloves are recommended.	CHEMICAL RESISTANT GLOVES
OTHER PPE	Rubber or leather footwear is recommended. All clothing saturated with this product should be discarded.	BOOTS

## VII. FIRE AND EXPLOSION DATA

FLASH POINT > 450°F (COC)	AUTOIGNITION TEMPERATURE 905°F	LOWER FLAMMABLE LIMIT 1.0%
EXTINGUISHING MEDIA <b>If fire should occur, extinguish with foam, carbon dioxide or dry chemical extinguishers.</b>		
SPECIAL FIRE FIGHTING PROCEDURES <b>DO NOT use water on an asphalt fire contained in a vessel as it may cause a violent eruption and expansion of liquid asphalt. Fire fighters should wear full protective equipment and self-contained breathing apparatus.</b>		
UNUSUAL FIRE AND EXPLOSION HAZARDS <b>Water sprayed on burning product may cause frothing, steam, and eruptions. DO NOT heat above the flash point. Hot asphalt can ignite flammable materials on contact. DO NOT weld in the presence of asphalt vapors.</b>		

## VIII. REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY	Avoid sources of ignition when material is heated above 212°F. DO NOT introduce water to material if material is at or above 212°F.
INCOMPATIBILITY	Avoid contact with strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS	Irritating or toxic vapors may be released when this material is burned. Possible Thermal decomposition gases include hydrogen sulfide, carbon monoxide, carbon dioxide, and sulfur dioxide.
CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION	None Known

## IX. SPILL AND LEAK PROCEDURES

### SPILL CONTROL PROCEDURE

**Stop source of leak if possible. Dike and contain to eliminate environmental contamination. If material enters a waterway, notify police, local EPA and the National Response Center (1-800-424-8802).**

### NEUTRALIZING CHEMICALS

**Bind small spills with course aggregate or sand. Pump large, hot spills into salvage tank or allow to cool and collect as a solid material.**

### WASTE DISPOSAL

**If disposal is necessary, contact your state environmental agency for guidance with disposal methods and waste receiving locations in your area.**

## X. SPECIAL PRECAUTIONS

### ENVIRONMENTAL

1. This Product is considered an oil under EPA-CWA Section 311. Spills into water sources should be reported to 1-800-424-8802.
2. If this product becomes a waste material, refer to 40 CFR 261.21 (RCRA) for latest waste disposal regulations and waste stream number.
3. This Product is listed in the EPA/TSCA inventory (40 CFR 700 to the end).

### LABELING

1. "Ignitable vapors may collect in container head space" wording is advised.
2. This material is regulated by the Department of Transportation as an **ELEVATED TEMPERATURE MATERIAL, LIQUID, N.O.S., UN3257, III** if transported above 212°F.

## XI. REFERENCES

*This MSDS was assembled by incorporation of information provided by the manufacturers and suppliers of the raw materials, Title 29 of the Code of Federal Regulations, Title 40 of the Code of Federal Regulations, Title 49 of the Code of Federal Regulations, and results from physical chemical tests performed on this product.*

*NOTE: This material safety data sheet is intended as a source of information for persons involved in any and all phases of handling this material, from production to final application, as required by 29 CFR 1910.1200. The health data provided is based on the nature of the raw constituents. This material is a mixture and the health effects as such have not been evaluated.*

## XII. ENVIRONMENTAL INFORMATION

### 1. THIS PRODUCT CONTAINS THE FOLLOWING EXTREMELY HAZARDOUS SUBSTANCE(S)

(SECTION 302 AND 304):	COMPONENT	TPQ(LBS)	RQ(BLS)
	N/A	N/A	N/A

### 2. THIS PRODUCT CONTAINS THE FOLLOWING CERCLA HAZARDOUS SUBSTANCE(S)

(SECTION 302 AND 304):	COMPONENT	RQ(LBS)	WEIGHT %
	N/A	N/A	N/A

### 3. THIS PRODUCT HAS THE FOLLOWING HAZARDS (SECTION 311 AND 312):

	YES	NO
IMMEDIATE		X
DELAYED		X
FIRE		X
PRESSURE		X
REACTIVITY		X

### 4. THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS

(SECTION 313):	COMPONENT	CAS#	WEIGHT %
	N/A	N/A	N/A

CARCINOGENICITY:	NTP	IARC MONOGRAPHS	OSHA
	NO	NO	NO

*The information provided in this material safety data sheet has been obtained and compiled from sources believed to be reliable. This information relates to the specific material designated and may not be valid for such material used in combination with any other material or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. Vance Brothers, Inc. does not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent.*

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### DATE

January 15, 2007

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