MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT IDENTIFICATION AND USE							
PRODUCT IDENTIFIER PAVEGARD SELF- ADHESIVE MEMBRANES				PRODUCT IDENTIFICATION NUMBER (PIN) NONE			
PRODUCT USE PAVEMENT REINFORCEMENT AND WATERPROOFING							
MANUFACTURER'S NAME HAL INDUSTRIES INC.			SUPPLIER'S NAME PAVEGARD PRODUCTS LTD.				
STREET ADDRESS 9		STREET ADDRESS (Admin. Office) 9681 – 187 th STREET					
77		PROVINCE B.C	CITY	SURREY		PROVINCE B.C	
POSTAL CODE V4N - 3N3		ONE NO. 888 - 0777 0 663 - 0076	POSTAL CODE V4N 3N3 EMERGENCY TELEPHON 1- 800 663-0		ENCY TELEPHONE NO. 1- 800 663-0076		

SECTION 2 - HAZARDOUS AND OTHER INGREDIENTS INGREDIENTS CAS NUMBER LD50 OF INGREDIENT (SPECIFY LC50 OF INGREDIENT (SPECIFIC SPECIES AND ROUTE) SPECIES) ASPHALT 8052 - 42 -4 ORAL: LD50> 5000 MG/ KG (RAT) N/A, ACGIH RECOMMENDS FOR DERMAL: LD50> 2000 MG/KG (RABBIT) ASPHALT FUMES: 5 MG/ M3 HYDROGEN SULPHIDE, 10 PPM (14 MG/M^3) REFINED HEAVY OIL 64741 -96 -4 ACGIH TLV & OSHA OBSERVE 5 MG/ M³ (CUBIC METER OF AIR) FOR MINERAL OILS STYRENE - BUTADIENE - STYRENE 9003 - 55-8 This polymer does not present an intrinsic RESIDUAL MONOMERS STYRENE BLOCK COPOLYMER health hazard when processed according to $TWA:50~ppm=215~mg/\,M^{\,3}$ correct working procedures. The limits on the residual monomers are: STEL: $100 \text{ ppm} = 425 \text{ mg/ M}^3 3$ BUTADIENE NO LIMIT AVAILABLE STYRENE - ISOPRENE - STYRENE 25038 - 32 -8 This polymer does not present an intrinsic RESIDUAL MONOMERS health hazard when processed according to BLOCK COPOLYMER STYRENE correct working procedures. The limits on the SAME AS ABOVE residual monomers are: ISOPRENE NO LIMIT AVAILABLE NOT CLASSIFIED AS A HUMAN CARCINOGEN NOT REGULATED SPUNBOND POLYESTER N/A N/A NONWOVEN INERT FILLER NOT REGULATED N/A N/A

		SECTIO)N 3 - PI	HYSICAL DAT	$\Gamma \mathbf{A}$			
PHYSICAL STATE SOLID (ASPHALT COATED, SURFACED SHEETS)	ODOUR AND APPEARANCE ODOUR THRESHOLD (PPM)						, ,	
VAPOUR PRESSURE: N /A FOR ASPHALT: <1 KPA AT 38 DE			RATE:		SOFTENING I COATING 85 - 105 DEG O		ING POINT (DEG C)	
PH N/A		TIC GRAVITY COEFF. WATER/OIL D		WATER/OIL DIST. SOLUBLE IN WATER		NOT V	NOT VOLATILE	
	SE	ECTION 4 - 1	FIRE AN	ND EXPLOSIO	ON DATA			
	ES, UNDER	TION?	СОМІ	BUSTIBLE IF EXPOSE	D TO HIGH HEAT	Γ AND OPEN FI	AMES.	
MEANS OF EXTINCTION: WATER FIRE FIGHTING PROCEDURES - WATER DIRECTLY INTO BURNING AGAINST POSSIBLE RELEASE OF F	USE WATER ASPHALT TO	SPRAY TO COOL I O AVOID SPREADI	FIRE EXPOS ING. SELF-C	ED PRODUCT AND A CONTAINED BREATH	S A PROTECTIVE ING APPARATUS			
FLASH POINT (DEG C) AND MET	1 D93) UPPER VOLUM	PER FLAMMABLE LIMIT (%) BY LUME) NOT AVAIL. LOWER FLAMMABLE LIMIT (% BY NOT AVAIL.						
ASPHALT'S BOILING POINT :	400 DEG C HAZARDOUS COMBUSTION PRODUCTS CARBON DIOXIDE, CARBON MONOXIDE, SO _X ,H₂S AND OTHER ORGANIC VAPOURS							
EXPLOSION DATA S	ATA SENSITIVITY TO IMPACT NONE SENSITIVITY TO STATIC DISCHARGE NONE						NONE	
		SECTION	N 5 - RE	ACTIVITY DA	TA			
CHEMICAL STABILITY YES (X) NO () IF NO, UNDER WHICH CONDITION? STABLE AT AMBIENT CONDITIONS.								
INCOMPATIBILITY WITH OTHER YES (X) NO () I	R SUBSTANC F SO, WHIC		ST	RONG OXIDIZING AG	GENTS			
REACTIVITY, AND UNDER WHAT	CONDITIO	NS EXCE	ESSIVE HEA	T APPROACHING FLA	ASH POINT			
HAZARDOUS DECOMPOSITION I	PRODUCTS			AL CONDITIONS. BUSTION PRODUCTS	FOR PRODUCTS	OF THERMAL	DECOMPOSITION.	
	SEC	CTION 6 - TO	OXICOL	OGICAL PRO	PERTIES			
ROUTE OF ENTRY (X) SKIN CONTAC	Γ	() SKIN ABSORPTI	ON	(X) EYE CONTACT	INHA	(X) LATION	() INGESTION	
EFFECT OF ACUTE EXPOSURE T INHALATION: FUMES FROM HOT					AND DIZZINESS	S.		
EFFECT OF CHRONIC EXPOSUR	E TO PRODU	JCT THE M	IANUFACTU	URED PRODUCT AS P	RODUCED AND	WHEN USED U	NDER AMBIENT	

EXPOSURE LIMITS NOT LISTED BY NIOSH	IRRITANCY OF PRODUCT NOT AVAIL.	SENSITIZATION TO PRODUCT NOT AVAIL.	CARCINOGENICITY NOT LISTED AS CARCINOGENS (IARC)
TERATOGENICITY	REPRODUCTIVE TOXICITY	MUTAGENICITY	SYNERGISTIC PRODUCTS NOT AVAIL
NOT AVAIL.	NOT AVAIL.	NOT AVAIL	

SECTION 7 - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

GLOVES (SPECIFY): RESPIRA

NOT NORMALLY PRACTICAL WASH HANDS AFTER CONTACT.

RESPIRATOR (SPECIFY):

NOT NEEDED UNDER AMBIENT CONDITIONS ORGANIC CANISTER IF HEATING PRODUCT.

EYE (SPECIFY): AVOID EYE CONTACT WITH PRODUCT OR WITH HANDS DURING PRODUCT APPLICATION.

FOOTWEAR (SPECIFY):

PROTECTIVE FOOTWEAR

CLOTHING (SPECIFY):

NORMAL WORK CLOTHING

OTHER (SPECIFY):

ENGINEERING CONTROLS (SPECIFY, E.G VENTILATION, ENCLOSED PROCESS): IF PRODUCT IS BEING HEATED OR BURNING PROVIDE SUFFICIENT VENTILATION. (SEE SECTION 4)

LEAK AND SPILL PROCEDURE: NOT NORMALLY IN LIQUID STATE. N/A

WASTE DISPOSAL: SEND TO RECYCLER OR INCINERATOR ACCORDING TO FEDERAL, PROVINCIAL AND LOCAL REGULATIONS.

HANDLING PROCEDURES AND EQUIPMENT: EXERCISE THE USUAL SAFETY PRECAUTIONS WHEN HANDLING PRODUCTS WITH PETROLEUM DISTILLATE. KEEP AWAY FROM IGNITION SOURCES. WASH HANDS THOROUGHLY AFTER SKIN CONTACT.

STORAGE REQUIREMENTS: STORE IN WELL-VENTILATED AREAS AWAY FROM IGNITION SOURCES AND STRONG OXIDIZING MATERIALS. SPECIAL SHIPPING INFORMATION:

SECTION 8 - FIRST AID MEASURES IN CASE OF FIRE CREATED FUMES

SPECIFIC MEASURES

EYE CONTACT: FLUSH WITH LARGE AMOUNTS OF WATER WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.

SKIN CONTACT: WASH WITH SOAP AND WATER, OR USE BABY OIL OR WATERLESS HAND CLEANER. DO NOT USE SOLVENTS OR

THINNERS TO CLEAN THE SKIN, GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

INGESTION: NOT EXPECTED TO BE A ROUTE OF ENTRY. IF INGESTED GIVE LIQUIDS. DO NOT INDUCE VOMITING. GET IMMEDIATE

MEDICAL ATTENTION.

INHALATION: REMOVE VICTIM TO FRESH AIR, IF BREATHING IS DIFFICULT APPLY CARDIOPULMONARY RESUSCITATION AND GET

IMMEDIATE MEDICAL ATTENTION.

SECTION 9 - PREPARATION DATE OF MSDS

PREPARED BY: "TECHNICAL GROUP" PHONE NUMBER DATE Aug, 2017

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PAVEGARD PRODUCTS LTD. 1-800-663 - 0076

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