

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER HAL-TEX "RAIN-SCREEN BREATHER BOARD" 3 - PLY SEMI- RIGID ASPHALT BOARD			PRODUCT IDENTIFICATION NUMBER (PIN) NONE		
PRODUCT USE BREATHABLE CONSTRUCTION BOARD USED TO CREATE A RAINSCREEN TYPE VENTILATION SPACE BEHIND STUCCO OR OTHER TYPES OF WALL CLADDING.					
MANUFACTURER'S NAME HAL INDUSTRIES INC.			SUPPLIER'S NAME HAL INDUSTRIES INC.		
STREET ADDRESS 9681 - 187TH STREET			STREET ADDRESS 9681 - 187TH STREET		
CITY SURREY		PROVINCE B.C	CITY SURREY		PROVINCE B.C
POSTAL CODE V4N - 3N3	EMERGENCY TELEPHONE NO. 1- 604 888 0777 1- 800 663 0076		POSTAL CODE V4N - 3N3	EMERGENCY TELEPHONE NO. 1- 604 888 0777 1- 800 663 0076	

SECTION 2 - HAZARDOUS AND OTHER INGREDIENTS

INGREDIENTS	CAS NUMBER	LD50 OF INGREDIENT (SPECIFY SPECIES AND ROUTE)	LC50 OF INGREDIENT (SPECIFIC SPECIES)
ASPHALT 67.8%	8052 - 42 - 4	ORAL: LD50> 5000 MG/ KG (RAT) DERMAL: LD50> 2000 MG/KG (RABBIT)	N/A, ACGIH RECOMMENDS FOR ASPHALT FUMES: 5 MG/ M ³ HYDROGEN SULPHIDE, 10 PPM (14 MG/ M ³)
INERT FILLER 15%	NOT REGULATED	NA	NA
FIBER GLASS MAT 4%	65997-17-3 for continuous filament glass fibers	OSHA FIBER LIMITS TO 5 PPM	
UREA FORMALDEHYDE BINDER 0.2 - 0.8% (used in fibre glass mat, is modified & cured)	9011-05-6	10 PPM for formaldehyde	
KRAFT PAPER 13%	NOT REGULATED		

SECTION 3 - PHYSICAL DATA

PHYSICAL STATE SOLID (SHEET FORMS)	ODOUR AND APPEARANCE BLACK WITH SLIGHT PETROLEUM ODOUR - ASPHALT COATED GLASS MAT SANDWICHED BETWEEN TWO BUILDING PAPERS.	ODOUR THRESHOLD (PPM) NOT AVAIL
VAPOUR PRESSURE: SOLID FORM	VAPOUR DENSITY	EVAPORATION RATE: < 1
	SOFTENING PT.	FREEZING /POUR POINT

FOR ASPHALT	<1 KPA AT 38 DEG C	NOT APPLICABLE	1 = n- butylacetate	ASPHALT 90-98°C	MELT
PH	NOT APPLICABLE	SPECIFIC GRAVITY NOT AVAILABLE	COEFF. WATER/OIL DIST. INSOLUBLE IN WATER	DENSITY 1.8- 2.5 G/CC AT 15 °C	

SECTION 4 - FIRE AND EXPLOSION DATA

FLAMMABILITY? YES (X) NO ()	IF YES, UNDER WHICH CONDITION?	COMBUSTIBLE IF EXPOSED TO HIGH HEAT AND OPEN FLAMES, (SIMILAR TO OTHER ORGANIC COMPOUNDS).			
MEANS OF EXTINCTION: WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE FOR SMALL FIRES. USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS AND AS A PROTECTIVE SCREEN. DO NOT POINT SOLID WATER DIRECTLY INTO BURNING ASPHALT TO AVOID SPREADING. SELF-CONTAINED BREATHING APPARATUS SHOULD BE WORN TO PROTECT AGAINST POSSIBLE RELEASE OF HYDROGEN SULPHIDE AND SULPHUR DIOXIDE IF MATERIAL IS BURNING.					
FLASH POINT (°C) AND METHOD (ASTM D93) 265 °C		UPPER FLAMMABLE LIMIT (% BY VOLUME) NOT AVAIL.		LOWER FLAMMABLE LIMIT (% BY VOLUME) NOT AVAIL.	
ASPHALT'S BOILING POINT : 400 °C		HAZARDOUS COMBUSTION PRODUCTS SMOKE, CARBON DIOXIDE, CARBON MONOXIDE AND TRACES OF OXIDES OF SULPHUR			
EXPLOSION DATA	NA	SENSITIVITY TO IMPACT	NONE	SENSITIVITY TO STATIC DISCHARGE	NONE

SECTION 5 - REACTIVITY DATA

CHEMICAL STABILITY YES (X) NO ()	IF NO, UNDER WHICH CONDITION?	STABLE, (PRODUCT IS IN A SHEET FORM)
INCOMPATIBILITY WITH OTHER SUBSTANCES YES (X) NO () IF SO, WHICH ONES)		
STRONG OXIDIZING AGENTS AND SOLVENTS EFFECT ASPHALT.		
REACTIVITY, AND UNDER WHAT CONDITIONS		
HAZARDOUS POLYMERIZATION WILL NOT OCCUR, DOES NOT REACT WITH WATER		
HAZARDOUS DECOMPOSITION PRODUCTS STABLE UNDER NORMAL CONDITIONS. SEE HAZARDOUS COMBUSTION PRODUCTS FOR PRODUCTS OF THERMAL DECOMPOSITION		

SECTION 6 - TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY	() SKIN CONTACT	() SKIN ABSORPTION	() EYE CONTACT	() INHALATION	() INGESTION
EFFECT OF ACUTE EXPOSURE TO PRODUCT: THIS MANUFACTURED PRODUCT AS PRODUCED AND WHEN USED UNDER AMBIENT CONDITIONS POSES NO HEALTH HAZARD. HOWEVER, IF THE PRODUCT IS HEATED BEYOND 200°C OR IF IT CATCHES FIRE, THEN THE MAJOR CONSTITUENT ASPHALT (BITUMEN) WILL EMANATE SLIGHTLY TOXIC FUMES. MELTED ASPHALT (BITUMEN) FROM THE PRODUCT AND THE KRAFT PAPER COULD ACT AS A FUEL AND CONTRIBUTE TO FIRE. SKIN / EYE CONTACT : EXPOSURE TO HOT MATERIAL CAUSE THERMAL BURNS. ASPHALT FUMES ARE MODERATELY IRRITATING TO THE EYES. INHALATION: PROLONGED IHHALATION OF FUMES FROM HOT ASPHALT CAUSES NAUSEA, HEADACHE AND DIZZINESS. INGESTION: INGESTION IS UNLIKELY.					
EXPOSURE LIMITS NOT LISTED BY NIOSH	IRRITANCY OF PRODUCT NOT AVAIL.	SENSITIZATION TO PRODUCT NOT AVAIL.	CARCINOGENICITY NOT LISTED AS CARCINOGENS (IARC)		
TERATOGENICITY NOT AVAIL.	REPRODUCTIVE TOXICITY NOT AVAIL.	MUTAGENICITY NOT AVAIL	SYNERGISTIC PRODUCTS NOT AVAIL		

SECTION 7 - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: FOR PRODUCT AS PRODUCED AND USED, NO SPECIAL PROCEDURES OF SAFETY ARE ESSENTIAL. SHOULD PRODUCT CATCH FIRE THROUGH EXTERNAL SOURCE REMAIN UPWIND OF THE FIRE. AVOID SKIN AND EYE CONTACT, AVOID INHALATION OF FUMES.

SECTION 8 - FIRST AID MEASURES

SPECIFIC MEASURES INCASE OF CONTACT WITH HOT MOLTEN ASPHALT.

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

SKIN CONTACT: WASH WITH SOAP AND WATER, OR USE BABY OIL OR WATER-LESS HAND CLEANER. DO NOT USE SOLVENTS THINNERS TO CLEAN THE SKIN, GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

INGESTION: IF SWALLOWED, DO NOT INDUCE VOMITING. KEEP AT REST. GET IMMEDIATE MEDICAL ATTENTION.

INHALATION: REMOVE VICTIM TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN AND GET MEDICAL ATTENTION IMMEDIATELY.

SECTION 9 - PREPARATION DATE OF MSDS

PREPARED BY : " TECHNICAL GROUP"

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DATE June 22, 2010

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