

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER POLYMAX P180 PLY SHEET & BASE PLY		PRODUCT IDENTIFICATION NUMBER (PIN) NONE	
PRODUCT USE		ON FLAT ROOFING AS A PLY SHEET IN BUILT-UP ROOFING. ON SLOPED ROOFS AS AN UNDERLAYMENT UNDER SHINGLES. ON WALLS AS EXTERNAL SHEATHING AS A BREATHER TYPE.	
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	
POSTAL CODE V4N - 3N3		EMERGENCY TELEPHONE NO. 1- 604 888 0777 1- 800 663 0076	
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SECTION 2 - HAZARDOUS AND OTHER INGREDIENTS

INGREDIENTS	CAS NUMBER	LD50 OF INGREDIENT (SPECIFY SPECIES AND ROUTE)	LC50 OF INGREDIENT (SPECIFIC SPECIES)
ASPHALT 60 - 75 %	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/ M3)
SPUNBOND POLYESTER NONWOVEN 20 - 35 %	NOT REGULATED		
ACRYLIC LATEX (used in polyesters mat) 0.2 - 10 %			
Sand 0.05 - 0.1 %	NOT REGULATED	NONE	
KRAFT PAPER 5 - 6 %	NOT REGULATED		
NONE			

SECTION 3 - PHYSICAL DATA

PHYSICAL STATE SOLID (SHEET FORM)		ODOUR AND APPEARANCE BLACK WITH SLIGHT PETROLEUM ODOUR - ASPHALT SATURATED, SURFACED POLYESTER MAT.			ODOUR THRESHOLD (PPM) NOT AVAIL		
VAPOUR PRESSURE: SOLID FORM FOR ASPHALT <1 KPA AT 38 DEG C		VAPOUR DENSITY NOT APPLICABLE		EVAPORATION RATE: < 1 1 = n- butylacetate		SOFTENING PT. ASPHALT 90-98 DEG C	
PH NOT APPLICABLE		SPECIFIC GRAVITY NOT AVAILABLE		COEFF. WATER/OIL DIST. INSOLUBLE IN WATER		DENSITY 1.8- 2.5 G/CC AT 15 DEG C	
						FREEZING /POUR POINT MELT	

SECTION 4 - FIRE AND EXPLOSION DATA

FLAMMABILITY? YES (<input checked="" type="checkbox"/>) NO (<input type="checkbox"/>)	IF YES, UNDER WHICH CONDITION?	COMBUSTIBLE IF EXPOSED TO HIGH HEAT AND OPEN FLAMES, (SIMILAR TO OTHER HIGH BOILING 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.				
FLASH POINT (DEG C) AND METHOD (ASTM D93) 265 DEG C		UPPER FLAMMABLE LIMIT (% BY VOLUME) NOT AVAIL.	LOWER FLAMMABLE LIMIT (% BY VOLUME) NOT AVAIL.	
ASPHALT'S BOILING POINT : 400 DEG 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 (<input checked="" type="checkbox"/>) NO (<input type="checkbox"/>)	IF NO, UNDER WHICH CONDITION?	STABLE. (PRODUCT IS IN A SHEET FORM)		
INCOMPATIBILITY WITH OTHER SUBSTANCES YES (<input checked="" type="checkbox"/>) NO (<input type="checkbox"/>) 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 DEG 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: PROLONG INHALATION 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			

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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 EYELIDS 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"

PHONE NUMBER
1 604 - 888 0777
1 800 - 663 0076

DATE Jan 05, 2010

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