

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER ASPHALT FELTS INCLUDES: ALL ROOFING FELTS INCLUDING ASTM AND CSA APPROVED. ASPHALT FELT NO. 15 ASTM, ASPHALT FELT PLAIN, NO. 15 PERFORATED ASPHALT FELT, NO. 30 ASPHALT FELT PLAIN AND ASTM, B.U.R. FELT, SHINGLE UNDERLAYMENT FELT, SHEATHING FELT.				PRODUCT IDENTIFICATION NUMBER (PIN) NONE	
PRODUCT USE					
ON FLAT ROOFING:		FOR BUILT UP ROOFING.			
ON SLOPED ROOFS:		AS AN UNDERLAYMENT UNDER SHINGLES.			
ON WALLS:		AS EXTERNAL SHEATING, 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	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 50 - 60 %	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)
ORGANIC FELT 40 - 50 %	NOT REGULATED		

SECTION 3 - PHYSICAL DATA

PHYSICAL STATE SHEET FORMS		ODOUR AND APPEARANCE BLACK WITH SLIGHT PETROLEUM ODOUR			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 60°C	FREEZING /POUR POINT NA	
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.			
FLASH POINT (DEG 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 IRRITATING 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 CAUSES 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.	

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.
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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 SOLVENT'S 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 March, 2017

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