MATERIAL SAFETY DATA SHEET

		SECT	ION 1 -	PROD	UCT	ID	ENTIFICATION	ON ANI	D USE		
PRODUCT IDENTIFIER ASPHALT FELTS INCLUDES: ALL ROOFING FELTS INCLUDING ASTM AND CSA APPROVED. NO. 15 ASTM, ASPHALT FELT PLAIN, NO. 15 PERFORATED ASPHALT FELT, N FELT PLAIN AND ASTM, B.U.R. FELT, SHINGLE UNDERLAYMENT FELT, SHE						T, N	NO. 30 ASPHALT				
PRODUCT USE	ON S	LAT ROOF! LOPED ROO VALLS:			UNDER	LAY	OFING. MENT UNDER SHING EATING, BREATHER				
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 TELEPHO 1- 604 888 0777 1- 800 663 0076				777			POSTAL CODE V4N - 3N3		EMERGENCY TELEPHONE NO. 1- 604 888 0777 1- 800 663 0076		
		SECTIO	ON 2 - I	HAZAR	DOU	S A	AND OTHER I	NGREI	DIENT	CS	
INGREDIENTS			CAS				LD50 OF INGREDIENT (SPECIFY SPECIES AND ROUTE)			LC50 OF INGREDIENT (SPECIFIC SPECIES)	
ASPHALT 50 - 60 %		8052 - 42 -4			ORAL: LD50> 5000 MG/ KG (RADERMAL: LD50> 2000 MG/KG (RADERMAL: LD50> 2000 MG/KG (RADERMAL)		BIT)	N/A, ACGIH RECOMMENDS FOR ASPHALT FUMES: 5 MG/ M 3 HYDROGEN SULPHIDE, 10 PPM (14 MG/ M3)			
ORGANIC FELT	RGANIC FELT 40 - 50 %		NOT REGULATED		ED						
			S	ECTIO:	N 3 -	PH	YSICAL DAT	A			
PHYSICAL STATE SHEET FORMS		ND APPEARANCE ITH SLIGHT PETROLEUM ODOU			UR		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	SOFTEN ASPHAL		FREEZING /POUR POINT NA	
PH NOT APPLI					WATER/OIL DIST. SOLUBLE IN WATER		DENSITY 1.8- 2.5 G/CC AT 15 °C				

SECTION 4 - FIRE AND EXPLOSION DATA IF YES, UNDER FLAMMABILITY? YES(X) NO() 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) **UPPER FLAMMABLE LIMIT (%) BY** LOWER FLAMMABLE LIMIT (% BY VOLUME) 265 °C VOLUME) NOT AVAIL. NOT AVAIL. ASPHALT'S BOILING POINT: 400 ° C HAZARDOUS COMBUSTION PRODUCTS SMOKE, CARBON DIOXIDE, CARBON MONOXIDE AND TRACES OF OXIDES OF SULPHUR EXPLOSION DATA SENSITIVITY TO IMPACT NONE SENSITIVITY TO STATIC DISCHARGE NONE **SECTION 5 - REACTIVITY DATA** CHEMICAL STABILITY IF NO, UNDER YES(X) NO() WHICH CONDITION? STABLE. (PRODUCT IS IN A SHEET FORM) INCOMPATIBILITY WITH OTHER SUBSTANCES NO() YES (X) 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 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. IRRITANCY OF PRODUCT EXPOSURE LIMITS SENSITIZATION TO PRODUCT CARCINOGENICITY NOT LISTED BY NOT AVAIL. NOT AVAIL. NOT LISTED AS NIOSH CARCINOGENS (IARC) TERATOGENICITY REPRODUCTIVE TOXICITY MUTAGENICITY SYNERGISTIC PRODUCTS NOT AVAIL. NOT AVAIL. NOT AVAIL 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 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 DATE Jan 19, 2012

1 604 - 888 0777 1 800 - 663 0076

IMPORTANT: The technical information herein is believed to be accurate. It is offered for your consideration, investigation and verification. Buyer assumes all risk of storage, handling and use of product. NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE INCLUDING, BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Nothing contained herein shall be constructed as license to operate under recommendation to infringe any patents.

Felt_MSDS.doc