

Beacon Roofing

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MATERIAL SAFETY DATA SHEET

WHMIS: D-1B, D-2A

I - PRODUCT INFORMATION	
PRODUCT NAME	Duro Perm Adhesive
PRODUCT TYPE	Asphalt/Chlorinated Solvent Cutback
PRODUCT USE	Roofing adhesive

II - HAZARDOUS INGREDIENTS				
INGREDIENTS	%	CAS #	EXPOSURE LIMITS	LD50/LC50(SPECIES & ROUTE)
Perchloroethylene	10-30	127-18-4	100 ppm (ACGIH)	LD50 (oral-rat) = 2600 mg/kg LC50(inhal.-rat)=7128 ppm/4hrs
Methylene Chloride	10-30	75-09-2	TLV=50 ppm (ACGIH) 25 ppm/8 hr. 125 ppm/15 min.	LD50 (oral-rat) = 1600 mg/kg LC50 (inhal.-rat) = 52 g/m3

III - PHYSICAL DATA			
PHYSICAL STATE <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID <input type="checkbox"/> SOLID	ODOUR & APPEARANCE Black liquid with chlorinated solvent odour.	ODOUR THRESHOLD (ppm) 5 - 200 ppm	
VOLATILE (VOL.) 35 - 40%	VAPOUR PRESSURE (mm Hg) 300 - 500 at 30°C	VAPOUR DENSITY (AIR = 1) 3 - 6	EVAPORATION RATE (BuAc=1) Approx. 2 - 5
BOILING POINT (°C) Approx. 40 °C	FREEZING POINT (°C) Not applicable	SPEC. GRAVITY (WATER - 1) 1.16 - 1.18	DENSITY (g / ml) 1.16 - 1.18
SOLUBILITY (IN WATER) Insoluble	COEF. OF WATER/OIL DIST. Not available	pH Not applicable	

IV - FIRE & EXPLOSION HAZARD		
FLAMMABILITY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONDITIONS OF FLAMMABILITY Not applicable.	
FLASH POINT (°C): None METHOD: ----	FLAMMABLE LIMITS (% VOLUME) LOWER: Not applicable UPPER: Not applicable	AUTO-IGNITION TEMP. (°C) Not available
TDG FLAMMABILITY CLASS Class 6.1	SENSITIVITY TO MECHANICAL IMPACT None	SENSITIVITY TO STATIC DISCHARGE None
HAZARDOUS COMBUSTION PRODUCTS	Exposure to flames or fire may cause thermal degradation with evolution of hydrogen chloride, phosgene and chlorine.	
MEANS OF EXTINCTION	Non-flammable as supplied.	
SPEC. FIRE FIGHTING PROCEDURES	Self-contained respiratory equipment when product is exposed to flames or fire as it will emit very toxic fumes on thermal degradation.	

V - PREPARATION OF M.S.D.S.		
PREPARED BY: WHMIS Group	PHONE NUMBER (514) 364-5224	DATE September 2000

VI - REACTIVITY DATA		Duro Perm Adhesive
CHEMICAL STABILITY <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	CONDITIONS TO AVOID: Very high temperatures such as fire, flames, etc. Toxic gas will be evolved.	
INCOMPATIBILITY (SUBSTANCE TO AVOID)	Can react violently with Barium, Beryllium, Lithium, Sodium/Potassium alloys and Potassium-T-Butoxide. May react with Aluminium, Magnesium and their alloys.	
CONDITIONS OF REACTIVITY	Not reactive under normal conditions of use.	
HAZARDOUS DECOMPOSITION PRODUCTS	If exposed to very high temperatures, thermal decomposition will give off hydrogen chloride, phosgene and chlorine.	

VII - TOXICOLOGICAL PROPERTIES			
THRESHOLD LIMIT VALUE	50 ppm	LC50/LD50 (estimated)	LD50(oral-rat) = 1600 mg/kg LC50(inhal.-rat) = 52 g/m3
ROUTE OF ENTRY	<input type="checkbox"/> SKIN CONTACT	<input type="checkbox"/> SKIN ABS.	<input checked="" type="checkbox"/> EYES <input checked="" type="checkbox"/> INGESTION <input checked="" type="checkbox"/> INHALATION
EFFECTS OF ACUTE EXPOSURE	Exposures to higher concentrations than 200 ppm may cause irritation, lachrymation and burning of the eyes. Irritation of nose and throat. There may be vomiting, nausea, drowsiness, alcoholic-like intoxication, etc.		
EFFECTS OF CHRONIC EXPOSURE	Prolonged or repeated contact with skin will cause irritation, defatting, dermatitis. May also be injurious to liver and kidneys. Central nervous system effects at 260 - 280 ppm.		
IRRITANCY	After prolonged or frequently repeated contacts.	SENSITIZATION	Not available
<input checked="" type="checkbox"/> CARCINOGENICITY	<input type="checkbox"/> REPRODUCTIVE EFFECTS	<input type="checkbox"/> TERATOGENICITY	<input type="checkbox"/> MUTAGENICITY
Methylene chloride is classified as a carcinogen.			

VIII - FIRST AID MEASURES	
SKIN	Wash with soap and water. Get medical attention if irritation or injury occurs.
EYES	Flush eyes thoroughly with plenty of lukewarm water. Get medical attention immediately.
INHALATION	Remove victim to fresh air. Administer artificial respiration if breathing has stopped, administer oxygen. Consult a physician immediately.
INGESTION	DO NOT INDUCE VOMITING. If vomiting occurs, take care to prevent aspiration into lungs. Obtain medical attention immediately.

IX - PREVENTIVE MEASURES	
PERSONAL PROTECTIVE EQUIPMENT	EYES: Goggles if applied by spray.
	GLOVES: Required solvent resistant type.
	CLOTHING: Overalls
	RESPIRATORY: Use approved, organic vapour mask in confined areas or if applied by spray.
ENGINEERING CONTROLS (VENTILATION, ETC.)	Ventilation required in confined areas. Local exhaust, if necessary, to maintain TLV.
LEAK AND SPILL PROCEDURE	Use proper protective equipment. Provide adequate ventilation. Scrape up to disposal containers, clean with low hazard solvents.
WASTE DISPOSAL	If material is spread out to allow evaporation of solvents, residue may be disposed of in sanitary landfill. DO NOT INCINERATE.
HANDLING PROCEDURES	Normal
STORAGE REQUIREMENTS	Avoid high temperature.
SHIPPING INFORMATION	Poisonous Liquids, N.O.S., UN2810, Class 6.1(9.2), PG III

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