MATERIAL SAFETY DATA SHEET
For chemicals, coatings and related materials

DATE :	SUPERSEDES	PREPARED BY:
October 7, 1996	May 9, 1996	Mark Horton, (612) 496-6027

Manufacturer

NAME: ChemRex Inc. ADDRESS: PL® Adhesives & Sealants ADDRESS: 889 Valley Park Drive ADDRESS: Shakopee, MN ZIP CODE: 55379	EMERGENCY PHONE NUMBER DAY: (612)-496-6000 NIGHT: CHEMTREC (800)-424-9300 INFORMATION PHONE NUMBER (612)-496-6000

Distributor

NAME:
ADDRESS:
ADDRESS:
ADDRESS:
ADDRESS: PHONE:

Section I - Product

NUMBER: 73-261, -264, -275 & -280	H M I S Hazard Codes Health: 2 Moderate Flammability: 1 slight Reactivity: 0 Minimal Personal Protective Equipment: G
NAME: PL Polyurethane Door, Window & Siding Sealant White, Limestone, Cedar & Terratone CLASS: Sealant CAS NUMBER: none - mix	

Section II - Hazardous Ingredients

Ingredient: Material Description	Percent by Weight	C.A.S. Registry Number	LEL	Vapor Pressure [mm Hg at 20 deg C]
Titanium Dioxide	<5	13463-67-7	N/A	N/A
Calcium oxide [lime]	1-5	1305-78-8	None	None
Talc [hydrous magnesium silicate]	1-5	14807-96-6	None	None
Silicon dioxide	.1-1	14808-60-7	None	None
Calcium carbonate [limestone]	10-30	1317-65-3	None	None
Mineral spirits [Stoddard type]	5-10	8052-41-3	1	2
* Reportable under SARA Title III, Section 313				

Section III - Physical Data

Boiling Range:	240-450 deg F	Freezing Point:	no data
Vapor Pressure:	<2 mm Hg @ 77 deg F	Vapor Density:	Heavier than air
Specific Gravity:	1.18	H2O Soluble:	slight [<0.1 %]
Evaporation Rate(relative to n-butyl acetate)	Slower	% Volatile by Volume:	6-8
pH:	N/A	Odor Threshold:	no data
Appearance and Odor:	Smooth pigmented viscous paste	Typical paint thinner odor.	

Section IV - Fire and Explosion Hazard Data

FLASH POINT: (Method Used)	121 deg F [Setaflash]	EXPLOSIVE LIMITS: LEL (%V in air) UEL	0.9 7.0
AUTOIGNITION TEMP:	no data	METHOD:	N/A
OSHA FLAMMABILITY CLASSIFICATION		N/A	
EXTINGUISHING MEDIA:	Water Spray (Fog), Foam, Dry Chemical or Carbon Dioxide.		
SPECIAL FIRE FIGHTING PROCEDURES	Fire Fighters must wear self contained breathing apparatus or air masks.	Containers exposed to fire should be kept cool with water spray.	A water stream directed into the fire may cause frothing with subsequent spread of fire.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Closed containers may explode due to build up of pressure when exposed to heat.	Thermal decomposition or combustion of product may generate irritating and/or toxic gases.	Vapor is heavier than air and may travel along the ground or floor and be ignited at locations distant from the source.

Section V - Toxicological Information

Ingredient Material Description	PEL [mg/m3]	TLV STEL [mg/m3]	TLV[twa]		LD50 [mg/kg]		LC50 [ppm] Rat INHAL.
			mg/m3	ppm	RAT [ora]	RABBIT [dermal]	
Titanium Dioxide	10.*	N/A	10*	N/A	N/A	N/A	N/A
Calcium oxide [lime]	5*	Not given	2*	N/A	N/A	N/A	N/A
Talc [hydrous magnesium silicate]	2*	Not given	2*	N/A	N/A	N/A	N/A
Silicon dioxide	0.1**	Not listed	0.1**	Not listed	Not listed	Not listed	No data
Calcium carbonate	15*, 5**	Not listed	10*	Not listed	Not listed	Not listed	No data
Mineral spirits [Stoddard type]	100 ppm	Not listed	Not listed	100	>5000	Not listed	No data
	* Total dust ** Respirable dust						

Section VI - Health Hazard Data and Emergency/first Aid Procedures

THRESHOLD LIMIT VALUES: See Section V

ACUTE OVEREXPOSURE INFORMATION

EYES: Moderate irritant. May cause tearing, reddening of the eyes and reversible corneal injury.

SKIN: Regard this product as a severe irritant. The product may contain trace amounts of an known skin sensitizer. Contact with the product may cause dermatitis, allergic responses, and, in sensitive individuals, redness, swelling, and blisters.

INHALATION: Regard this product as a severe irritant. The product may contain trace amounts of an known respiratory sensitizer. Exposure to excessive concentrations may produce irritation of the respiratory tract, coughing, chest discomfort, shortness of breath. Individuals with a preexisting respiratory conditions can develop more severe symptoms, such as bronchitis, bronchial spasms, and pulmonary edema [fluid in the lungs]. For most individuals these effects are reversible.

INGESTION: May cause irritation if swallowed.

NOTE: Preexisting respiratory or skin condition(s) may be aggravated by exposure.

CHRONIC OVEREXPOSURE INFORMATION:

1) This product does not contain dust as produced and does not generate dust in normal use. Dust generated by abnormal activities, such as sanding or grinding, could contain a small amount [<0.1%] of respirable silicon dioxide [quartz]dust. NTP and IARC have listed free respirable silica as a suspect human carcinogen. Prolonged and/or repeated overexposure to free respirable silica may cause silicosis or other delayed and serious lung injury. The dust could also contain particles of titanium dioxide, calcium oxide, talc, aluminum sulfate, and/or calcium carbonate. Chronic overexposure to dusts of these substances may cause delayed and serious lung injury.

2) This product may contain a trace amount [<0.1%] of a known skin sensitizer. Repeated or prolonged overexposure can lead to sensitization. For persons sensitized even brief exposures to low concentrations can produce reddening, swelling, rash, blisters, chemical asthma, and nonspecific asthmatic conditions.

3] No other known components of this product are listed as known or suspected carcinogens per NTP, IARC, or OSHA.

4) This product contains solvents. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Solvents are also reported to cause liver damage, kidney damage, mucous membrane irritation. Be warned that intentional misuse by deliberately inhaling the contents [a process often called "sniffing"] may be harmful or fatal.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Any pre-existing respiratory or skin condition.

EMERGENCY AND FIRST AID PROCEDURES:

EYES:	Flush the eyes with plenty of water for at least 15 minutes. If necessary, gently hold the eyelids open during the flush. Obtain immediate medical attention.
SKIN:	Remove contaminated clothing and shoes. Wash affected area(s) thoroughly with soap and water. Wipe or flush affected skin with isopropyl alcohol [rubbing alcohol]. Wash again thoroughly with soap and water. If irritation persists, seek medical attention.
INHALATION:	Move the victim into fresh air. If the victim has difficulty breathing, administer oxygen. Administer artificial respiration if the victim is not breathing. Obtain immediate medical attention.
INGESTION:	Obtain immediate medical attention. Do not induce vomiting. Should vomiting occur, be sure to keep victim's head below hips to avoid aspiration of vomitus into the lungs.

Section VII - Reactivity Data

STABILITY: Stable

STABILITY CONDITIONS TO AVOID: Contact with water vapor. Sources of ignition. Long term exposure to elevated temperatures.

INCOMPATIBILITY (MATERIALS TO AVOID CONTACT WITH): Water, alcohols amines, strong oxidants, strong bases or acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and nitrogen, hydrogen cyanide gas, other acrid and toxic fumes.

HAZARDOUS POLYMERIZATION: This product contains an isocyanate. Contact with moisture or other materials that react with isocyanates may cause polymerization.

Section VII - Spill or Leak Procedures

STEPS FOR MATERIAL SPILLAGE:

Ventilate the area and remove all sources of ignition. Evacuate unnecessary personnel. Wipe up small spills with rags or towels. Put spent rags or towels in loosely covered containers in a well-ventilated area. Large spills should be handled carefully. Put on respiratory protection. Dike or impound spilled liquid. Cover the spill with absorbent compound [e.g., vermiculite, clay, or sand]. Use non-sparking tools to sweep or shovel into containers. Cover loosely and remove to a well-ventilated waste area. Repeat sorbent/sweep cycle until the spill has dried up. Rinse the spill area thoroughly with water. Flush the rinsings to the sanitary sewer or soak them up with absorbent material. Do not discharge undiluted product to the sanitary sewer. Do not discharge the product or cleanup wastes to lakes, streams, ponds, or sewer. Avoid contact with eyes and skin.

WASTE DISPOSAL METHODS:

Review all local, state, and federal regulations concerning health and pollution for appropriate disposal procedures. Do not incinerate closed containers.

Section IX - Special Protection Information

RESPIRATORY PROTECTION: Wear NIOSH/MSHA approved respiratory protection when the product is mixed or applied in a poorly ventilated area or if workplace levels of ingredients exceed the TLV. Follow applicable federal, state, and local regulations.

VENTILATION: Use local exhaust as needed to keep vapor/dust levels below recommended limits.

PROTECTIVE EQUIPMENT: Wear gloves [natural or butyl rubber, supported PVA, or nitrile. Avoid neoprene], eye goggles, and clean protective clothing to cover arms and legs and keep exposure to a minimum.

Section X - Special Precautions

HANDLING AND STORAGE PRECAUTIONS

DO NOT BREATHE VAPORS.	DO NOT TAKE INTERNALLY
AVOID CONTACT WITH EYES, CLOTHING, AND SKIN	WEAR PROTECTIVE CLOTHING AT ALL TIMES.
KEEP CONTAINER CLOSED WHEN NOT IN USE	WASH THOROUGHLY AFTER USING.
KEEP OUT OF REACH OF CHILDREN	USE ONLY WITH ADEQUATE VENTILATION

Section XI - Regulatory Data

VOC CONTENT: Ranges from 81.6 g/L or 0.66 lbs/gal to 98 g/L or 0.81 lbs/gal, less water and exempt solvents.

CALIFORNIA PROPOSITION 65:

This product contains material listed by the State of California as known to cause cancer, birth defects or other reproductive harm.

TRANSPORTATION

This material has been determined to be a non-combustible solid by ASTM test methods.

	DOT	UN
HAZARD CLASS:	Not Regulated	Not Regulated
UN/NA NUMBER:	N/A	N/A
SHIPPING NAME:	N/A	N/A
PLACARD AT	N/A	N/A
CLASS NUMBER:	AIR: N/A MARINE: N/A	AIR: N/A MARINE: N/A
SUBSID. RISK :	AIR: N/A MARINE: N/A	AIR: N/A MARINE: N/A
PACKING GROUP:	AIR: N/A MARINE: N/A	AIR: N/A MARINE: N/A

REPORTING

CERCLA REPORTABLE QUANTITY: None. AS WASTE: none

SARA SECTION 304 EMERGENCY RESPONSE REPORTABLE QUANTITY: none

SARA SECTION 311/312 INVENTORY REPORTING (Y/N): Y

SARA SECTION 311/312 HAZARD CLASS(ES): Acute and chronic health hazard.

SARA SECTION 313 ROUTINE RELEASE REPORTING CHEMICALS: None

COMPONENTS ON TSCA INVENTORY (Y/N): Y

DISPOSAL

EPA RCRA WASTE CLASS: Not Regulated

EPA RCRA WASTE NUMBER: Not Regulated

CALIFORNIA LIST LAND BAN (Y/N): Not Applicable

ABBREVIATIONS USED:

N/A = Information or data Not Available, NTP – National Toxicology Program,
IARC – International Agency for Research on Cancer, NIOSH – National Institute of Occupational Safety and Health,
ACGIH = American Conference of Governmental Industrial Hygienists, OSHA = Occupational Safety and Health Administration,
PEL – Permissible Exposure Limit (8-hr. TWA) (OSHA), TLV – Threshold Limit Value (8-hr. TWA) (ACGIH),
STEL = Short Term Exposure Limit (15-min TWA) (OSHA), C = Ceiling Value.

DISCLAIMER

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REASON FOR REVISION: Complete Review.	REISSUE REQD: Y