

MATERIAL SAFETY DATA SHEET

MSDS Name: PL(R) PREMIUM POLYURETHANE CONSTRUCTION ADHESIVE Low voc
MSDS Number: P73948145
Version Number 1
MSDS Date: JAN-23-2002
Page Number: 1

SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name: PL(R) PREMIUM POLYURETHANE CONSTRUCTION
ADHESIVE Low voc
HMIS Hazard Rating: Health: 2 Fire: 1 Reactivity: 0 PPI: B

Company Identification: OSI SEALANTS, INC.
7405 PRODUCTION DRIVE
MENTOR OH 44060

Contact: Safety Officer
Telephone/Fax: (440) 255-8900 (440) 974-2395
Emergency Phone (24 hour) CHEMTREC
(800) 424-9300
Chemtrec (outside-USA) (703) 527-3887
Preparer T.F.Barr
Sr. R.&D. Chemist

Product Class POLYURETHANE ADHESIVE
Trade Name PL-BRANDS
Product Code See NO. above

SECTION II - INGREDIENT AND HAZARD INFORMATION

Ingredient Name	CAS Number	Percent	TSCA
4,4' Diphenylmethane Diisocyanate	101-68-8	< 5.0	Y
Light Hydrotreated Naphtha	64742-47-8	< 5.0	Y
POLYMERIC MDI Isocyanate	9016-87-9	< 5.0	Y
SILICA, QUARTZ	14808-60-7	TRACE	Y

SECTION III - PHYSICAL AND CHEMICAL PROPERTIES

Form: High viscosity, non sag caulk.
Appearance/Color: Tan
Odor: Mild,oily
Solubility (in water): insol.
pH Value, +/- .3: Not Applicable
Boiling Range: 342.øF - 646.øF (172.22øC - 341.11øC)
Vapor Pressure (mmHg): less than 1.@ 68.øF (20.øC)
Evaporation Rate: 0.1 times Slower than n-Butyl Acetate

Vapor Density: Heavier than air

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% Volatile, Weight 4.0%
% Volatile, Volume Not Available
Specific Gravity: 1.26096
VOC (less H2O or exempt) 45 gr/L
Heavy Elements (ppm) 0.

NOTE:

**BOIL RANGE, EVAP RATE, VAPOR PRESSURE, AND VAPOR DENSITY
FOR SOLVENT ONLY!!

SECTION IV - FIRE FIGHTING MEASURES (Flash,UEL,LEL for solvent only)
Flammability Class IIIB
Flash Range: 250.0°F (121.11°C)
Pensky-Martens Closed Cup ASTM D 93
Explosive Range (LEL/UEL): 1.6%
10.0%

EXTINGUISHING MEDIA:

Carbon Dioxide---Dry Chemical---Foam
Use water to cool material in vicinity of fire.

SPECIAL FIRE-FIGHTING PROCEDURES:

Use self-contained breathing apparatus with full facepiece
operated in pressure demand or other positive pressure mode.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Water may be unsuitable except as a cooling agent.
Use fog nozzle. Any closed container may rupture when
exposed to extreme heat.

SECTION V - HEALTH HAZARD DATA

ROUTES OF ENTRY:

ENTRY THROUGH...

Inhalation? Yes | Skin? Yes | Ingestion? Yes

TARGET ORGANS...

Overexposure -- Diphenylmethane Diisocyanate: Skin, Eyes

CARCINOGENICITY...

NTP? N/E | IARC Monographs? N/E | OSHA? NO

use of this product does not produce dust. Sanding dried
material could generate trace amounts of silica (quartz) which
is a suspect human carcinogen by IARC.

EFFECTS OF OVEREXPOSURE

Eyes: Can cause irritation, redness, tearing and blurred vision.

Skin: Repeated contact can cause moderate irritation, dermatitis
and possible sensitivity. Allergic reactions are possible.

Inhalation: Headaches, dizziness, nausea, decreased blood pressure,

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irritation, coughing, chest discomfort. See Chronic below.
Ingestion: Can cause gastrointestinal irritation, nausea.
CHRONIC HAZARDS: Preexisting respiratory or skin conditions may be aggravated by exposure. This product contains an isocyanate. Persons with a history of exposure to isocyanates may experience reddening swelling, rash or blisters. Such individuals could also experience chemical asthma, and non-specific asthmatic conditions. Skin and respiratory sensitization can result from repeated exposures to isocyanates. For most individuals these effects are reversible.
NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain, nervous system, liver or kidney damage or may cause cardiac arrhythmia. INTENTIONAL misuse of this product by deliberately inhaling its vapors may be harmful or fatal.
FIRST AID MEASURES
Eyes: Flush with large amounts of water for at least 15 minutes lifting eyelids occasionally; get prompt medical attention
Skin: Wash thoroughly with soap and water; apply a mild skin cream. Remove contaminated clothing. Rubbing alcohol may help to remove uncured adhesive.
Inhalation: Remove affected person to fresh air; if breathing is difficult, administer oxygen; if breathing has stopped, give artificial respiration. Get medical attention.
Ingestion: DO NOT INDUCE VOMITING! Get immediate medical attention.

SECTION VI - STABILITY AND REACTIVITY

Stability: This product is stable
Hazardous Polymerization: Hazardous polymerization will not occur

INCOMPATIBILITY:

Keep away from strong oxidizing agents, alkalies, acids, alcohols, detergents and water .

CONDITIONS TO AVOID:

Keep away from heat, spark, and open flame.
Product cures in contact with water.

HAZARDOUS DECOMPOSITION PRODUCTS:

Will produce fumes and smoke containing carbon monoxide and dioxide and nitrogen oxides under fire conditions.

SECTION VII - ACCIDENTAL RELEASE AND DISPOSAL MEASURES:

STEPS TO BE TAKEN IN CASE OF SPILL:

Ventilate confined areas. (Open windows and doors)
Cover with absorbent, scoop into sealable safety container.
Wear protective clothing.

WASTE DISPOSAL METHOD:

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Dispose of following local, state, and federal regulations.

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SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
4,4' Diphenylmethane Diisocyanate	0.01 PPM	N/est	N/est	0.02 PPM	0.01 PPM
Light Hydrotreated Naphtha	N/est	N/est	N/est	N/est	N/est
POLYMERIC MDI Isocyanate	N/est	N/est	N/est	N/est	N/est
SILICA, QUARTZ	0.10 mg/M3	N/est	N/est	N/est	0.10 mg/M3

Note: The TLV for Silica is for the respirable fraction of dust only.

RESPIRATORY PROTECTION:

If TLV of the product is exceeded, wear NIOSH/MSHA jointly approved respiratory protection in the absence of proper ventilation. Follow applicable OSHA regulations.

VENTILATION:

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV. Ventilate during application and curing of this product.

PROTECTIVE CLOTHING:

Rubber gloves should be worn.
Cover arms and legs to minimize exposure.

EYE PROTECTION:

Eye protection should be worn.

HANDLING AND STORAGE PRECAUTIONS:

Keep away from sunlight, heat and flame
Keep out of reach of children
Keep container tightly closed when not in use
Do not reuse this container
Wear protective clothing, Wash skin thoroughly after use.
Avoid contact with eyes, skin or clothing.

SECTION IX - TRANSPORT INFORMATION:

DOT CLASSIFICATIONS FOR ONE GALLON AND UNDER CONTAINERS

Not Regulated

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DOT CLASSIFICATIONS for OVER 1 GALLON size CONTAINERS

Not Regulated

SECTION X - REGULATORY INFORMATION:

SARA TITLE III SECTION 313:

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372:

Ingredient Name	CAS Number	Percent
4,4' Diphenylmethane Diisocyanate	101-68-8	< 5.0

-PROP 65 (CARCINOGEN)

WARNING: This product contains a chemical known to the state of California to cause cancer.

Ingredient Name	CAS Number	Percent
SILICA, QUARTZ	14808-60-7	TRACE

The material fits the EPA Hazard Category definition of Immediate (Acute) and Delayed (Chronic) health hazards under SARA Sections 311, 312.

DISCLAIMER:

The information contained herein is based on data available as of the date of preparation of this MSDS and which we believe to be reliable. However, no warranty is expressed or implied regarding the accuracy of the data. We shall not be responsible for the use of this information, or of any product, method, or apparatus mentioned, and the user must make his own investigation to determine the suitability of the information or products for his particular purpose, for the protection of the environment, and the health and safety of the users of this material.