

ADH-50-10-0

MATERIAL SAFETY DATA SHEET

MSDS Name: PL(R) PREMIUM POLYURETHANE CONSTRUCTION ADHESIVE
 MSDS Number: P73948145-S
 Version Number
 MSDS Date: AUG-28-2001
 Page Number: 1

SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name: PL(R) PREMIUM POLYURETHANE CONSTRUCTION
 ADHESIVE
 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
Light Hydrotreated Naphtha	64742-46-7	5 - 10	Y
4,4' Diphenylmethane Diisocyanate	101-69-8	< 5.0	Y
POLYMERIC MDI Isocyanate	9016-07-9	< 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.

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pH Value, +/- .3: Not Applicable
 Boiling Range: 342.°F - 646.°F (172.22°C - 341.11°C)
 Vapor Pressure (mmHg): less than 1. @ 68.°F (20.°C)
 Evaporation Rate: 0.1 times slower than n-Butyl Acetate
 Vapor Density: Heavier than air
 % Volatile, Weight 10. %
 % Volatile, Volume Not Available
 Specific Gravity: 1.26096
 VOC (less H2O or exempt) 112 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.°F (121.11°C)
 Explosive Range (LEL/UEL): Pensky-Martens Closed Cup ASTM D 93
 1.6 %
 10. %

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

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TARGET ORGANS...

Overexposure -- Diphenylmethane Diisocyanate: Skin, Eyes

CARCINOGENICITY...

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

Normal 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, 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

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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:

Dispose of following local, state, and federal regulations.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
Light Hydrotreated Naphtha	N/est	N/est	N/est	N/est	400.00 PPM
4,4' Diphenylmethane Diisocyanate	0.01 PPM	N/est	N/est	0.02 PPM	0.01 PPM
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/MSEA jointly approved respiratory protection in the absence of proper

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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

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:

Table with 3 columns: Ingredient Name, CAS Number, Percent. Row 1: 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.

Table with 3 columns: Ingredient Name, CAS Number, Percent

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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.