

MATERIAL SAFETY DATA SHEET

MSDS Name: PL (R) MIRROR MASTIC ADHESIVE  
MSDS Number: P73184115  
Version Number 2  
MSDS Date: OCT-18-2002  
Page Number: 1

-----  
SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name: PL (R) MIRROR MASTIC ADHESIVE  
HMIS Hazard Rating: Health: 1 Fire: 3 Reactivity: 0 PPE: B

Company Identification: OSI SEALANTS, INC.a Subsidiary  
of Sovereign Specialty Chems.  
7405 PRODUCTION DRIVE  
MENTOR OH 44060  
Information phone/Fax: (440) 255-8900 (440) 974-8358  
Emergency Phone (24 hour) CHEMTREC  
(800) 424-9300  
Chemtrec (outside-USA) (703) 527-3887

Product Class ADHESIVE  
Trade Name PL Brands  
Product Code \_\_\_\_\_

SECTION II - INGREDIENT AND HAZARD INFORMATION

Hazardous Ingredient Name	CAS Number	Percent	TSCA
Light Aliphatic Naphtha	64742-89-8	10 - 15	Y
Toluene	108-88-3	5 - 10	Y
n-Hexane	110-54-3	5 - 10	Y
Ethanol	64-17-5	< 5.0	Y
XYLENE	1330-20-7	< 5.0	Y

Ingredient Notes:  
Remaining ingredients are not considered OSHA hazardous.

-----  
SECTION III - PHYSICAL AND CHEMICAL PROPERTIES

Form: Non-sag mastic  
Appearance/Color: Tan  
Odor: Slight,hydrocarbon  
Solubility (in water): Insoluble  
pH Value, +/- .3: Not Applicable  
Boiling Range: 160.øF - 230.øF (71.11øC - 110.øC)  
Vapor Pressure (mmHg): 155.@ 68.øF (20.øC)  
Evaporation Rate: 4.8 times Faster than n-Butyl Acetate  
Vapor Density: Heavier than air  
% Volatile, Weight 31.%  
% Volatile, Volume 45.%  
Specific Gravity: 1.09883  
VOC (less H2O or exempt) < 370 gr/L,(31%

NOTE:

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

SECTION IV - FIRE FIGHTING MEASURES (Flash,UEL,LEL for solvent only)

Flammability Class I B  
Flash Range: approx.  
0.øF - 81.øF (-17.78øC - 27.22øC)  
Tag Closed Cup  
-----

MATERIAL SAFETY DATA SHEET

MSDS Name: PL (R) MIRROR MASTIC ADHESIVE  
MSDS Number: P73184115  
Version Number 2  
MSDS Date: OCT-18-2002  
Page Number: 2

-----  
Explosive Range (LEL/UEL): 1.5%  
6.5%

EXTINGUISHING MEDIA:

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

SPECIAL FIRE-FIGHTING PROCEDURES:

Use self-contained breathing apparatus with full facepiece  
operated in pressure demand with full protective equipment.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Any closed container may rupture when exposed to extreme heat.  
Solvent vapors are heavier than air and travel along the ground.  
Vapors given off are flammable and may be ignited in air explosively.

-----  
SECTION V - HEALTH HAZARD DATA

ROUTES OF ENTRY:

ENTRY THROUGH... Inhalation and skin most likely

CARCINOGENICITY...

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

EFFECTS OF OVEREXPOSURE

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

Skin: Prolonged or repeated contact can cause moderate  
irritation, defatting, and dermatitis.

Inhalation: May cause nose or throat irritation. High concentrations may cause  
acute central nervous system depression characterized by headaches, dizziness,  
nausea and confusion.

Ingestion: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

FIRST AID MEASURES

Eyes: Flush eyes gently with 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.

Inhalation: Move 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.

CHRONIC HAZARDS

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.

N-Hexane can cause peripheral neuropathy (arm and leg damage) and central nervous  
system damage. Prolonged and repeated exposure has been suggested as a cause of  
the following effects in lab animals:liver and reproductive abnormalities,  
kidney, spleen, lung or eye damage. May aggravate pre-existing disorders of  
these organs in humans. May be harmful if absorbed through skin.

-----

MATERIAL SAFETY DATA SHEET

MSDS Name: PL (R) MIRROR MASTIC ADHESIVE  
MSDS Number: P73184115  
Version Number 2  
MSDS Date: OCT-18-2002  
Page Number: 3

-----  
Overexposure to Xylene may cause injury to Liver, Kidney and blood.  
Repeated overexposure to Toluene may cause liver damage.  
Toluene has been found to cause Kidney, Lung and Spleen damage  
in laboratory animals.

-----  
SECTION VI - STABILITY AND REACTIVITY

Stability: This product is stable  
Hazardous Polymerization: Hazardous polymerization will not occur  
INCOMPATIBILITY:  
Keep away from strong oxidizing agents.  
CONDITIONS TO AVOID:  
Keep away from heat, spark, open flames and any ignition source.  
HAZARDOUS DECOMPOSITION PRODUCTS:  
Will produce fumes and smoke containing carbon monoxide and  
dioxide under fire conditions.

-----  
SECTION VII - ACCIDENTAL RELEASE AND DISPOSAL MEASURES:

STEPS TO BE TAKEN IN CASE OF SPILL:  
Eliminate all ignition sources. Ventilate confined areas.  
(Open windows and doors). Wear appropriate protective clothing.  
Cover with absorbent. Scoop into sealable safety container.  
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 Aliphatic Naphtha	400.00 PPM	N/est	N/est	1000.00 PPM	500.00 PPM
Toluene	100.00 PPM	N/est	150.00 PPM	150.00 PPM	150.00 PPM
n-Hexane	50.00 PPM	N/est	N/est	N/est	50.00 PPM
Ethanol	1000.00 PPM	N/est	N/est	N/est	1000.00 PPM
XYLENE	100.00 PPM	N/est	150.00 PPM	150.00 PPM	100.00 PPM

RESPIRATORY PROTECTION:  
If TLV of the product is exceeded, a NIOSH/MSHA jointly approved air supply  
respirator is advised in the absence of proper ventilation. OSHA regulations  
also permit the use of other types of NIOSH/MSHA respirators under specified  
conditions. (See your safety equipment supplier for more information)

VENTILATION:  
Provide sufficient mechanical (general and/or local exhaust)

-----

MATERIAL SAFETY DATA SHEET

MSDS Name: PL (R) MIRROR MASTIC ADHESIVE  
MSDS Number: P73184115  
Version Number 2  
MSDS Date: OCT-18-2002  
Page Number: 4

-----  
ventilation to maintain exposure below TLV.  
Ventilate during application and curing of this product.  
PROTECTIVE CLOTHING:  
Rubber gloves should be worn where skin contact is likely.  
Wear impervious clothing and shoes.  
EYE PROTECTION:  
Chemical goggles or safety glasses should be worn.  
HANDLING AND STORAGE PRECAUTIONS:  
Keep away from heat, spark and flame.  
Keep out of reach of children.  
Keep container closed while not in use.  
Do not cut or burn receptacles that have contained a solvent based product. Do not reuse this container.  
Use only in a well ventilated area.  
-----

N/A=NOT APPLICABLE N/AV=NOT AVAILABLE N/E, N/est=NOT ESTABLISHED  
-----

SECTION IX - TRANSPORT INFORMATION:

DOT CLASSIFICATIONS FOR ONE GALLON AND UNDER CONTAINERS

DESCRIPTION: ORM-D, Consumer commodity  
CLASS/ UN NO.: none  
DOT LABEL: ORM-D (Adhesives)  
IMDG class: 3.1  
IMDG BOL: Adhesive, 3, UN1133, PG III, LTD QTY

DOT CLASSIFICATIONS for OVER 1 GALLON size CONTAINERS

DESCRIPTION: Adhesive  
CLASS: Class 3, Packing group III  
DOT LABEL: Flammable Adhesive, UN 1133  
IMDG CLASS: 3.1  
IMDG BOL: Adhesive, 3, UN1133, PG III

-----  
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
Toluene	108-88-3	5 - 10
n-Hexane	110-54-3	5 - 10
XYLENE	1330-20-7	< 5.0
ETHYL BENZENE	100-41-4	TRACE

-PROP 65 (TERATOGEN)

WARNING: This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.

-----

MATERIAL SAFETY DATA SHEET

MSDS Name: PL (R) MIRROR MASTIC ADHESIVE  
MSDS Number: P73184115  
Version Number 2  
MSDS Date: OCT-18-2002  
Page Number: 5

---

Ingredient Name	CAS Number	Percent
Toluene	108-88-3	5 - 10

The following ingredients are registered for TSCA 12B

Ingredient Name	CAS Number	Percent
n-Hexane	110-54-3	5 - 10

This material fits the EPA Hazard Category definition of Immediate (Acute) and Delayed (Chronic) Health Hazards and Fire Hazard under SARA Sections 311, 312.

Chemical ingredients are listed on the TSCA inventory.

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.