

MATERIAL SAFETY DATA SHEET

MSDS Name: PL MARBLE &GRANITE ADHESIVE Polyurethane
MSDS Number: P007720
Version Number 4
Revision Date: JUL-18-2007
Page Number: 1

SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name: PL MARBLE &GRANITE ADHESIVE Polyurethane
HMIS Hazard Rating: Health: 2 Fire: 1 Reactivity: 0 PPE: B

Company Identification: HENKEL CORPORATION
7405 PRODUCTION DRIVE
MENTOR OH 44060

Contact (24 hour): Customer Affairs (800)321-0253
Information phone/Fax: (440) 255-8900 / (440) 974-8358
CHEMTREC Emergency (24 hour): (703) 527-3887 (International)
(800) 424-9300
in Canada CANUTEC 613-996-6666

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

SECTION II - INGREDIENT AND HAZARD INFORMATION

Table with 4 columns: Hazardous Ingredient Name, CAS Number, Percent, TSCA. Rows include 4,4' Diphenylmethane Diisocyanate, Light Hydrotreated Naphtha, POLYMERIC MDI Isocyanate, and SILICA, QUARTZ.

Ingredient Notes: Remaining ingredients are not considered OSHA hazardous.

SECTION III - PHYSICAL AND CHEMICAL PROPERTIES

Form: Mastic, non sag
Appearance/Color: Tan
Odor: Mild,oily
Solubility (in water): insoluble
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

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Vapor Density: Heavier than air
% Volatile, Weight 4.%
% Volatile, Volume Not Available
Specific Gravity: 1.26096
VOC (less H2O or exempt) 45 gr/L, 4%

NOTE:

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

SECTION IV - FIRE FIGHTING MEASURES

Flammability Class IIIB
Flash Point: 250.°F (121.11°C)
Pensky-Martens Closed Cup ASTM D 93
Explosive Range (LEL/UEL): 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

Table with 3 columns: Route, Species, Exposure and Dose. Rows include 4,4' Diphenylmethane Diisocyanate (LC50 178. mg/M3), Light Hydrotreated Naphtha (LD50 5000. PPM), and POLYMERIC MDI Isocyanate (LD50 5000. PPM).

ROUTES OF ENTRY:

ENTRY THROUGH...

Inhalation? Yes | Skin? Yes | Ingestion? Yes

TARGET ORGANS...

Overexposure -- Diphenylmethane Diisocyanate: Skin, Eyes

CARCINOGENICITY...

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NTP? N/E | IARC Monographs? noted | 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.

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.
Cured adhesive may take several days to wear off.
Inhalation: Remove affected person to fresh air.
Ingestion: Get medical attention if ill effects develop.

CHRONIC HAZARDS

CHRONIC HAZARDS: Preexisting respiratory or skin conditions may be aggravated by exposure. This product contains an isocyanate. Skin and respiratory sensitization can result from repeated exposures to isocyanates. For most individuals these effects are reversible. Persons previously sensitized to isocyanates may experience an allergic respiratory reaction: signs/symptoms can include difficulty breathing, wheezing, tightness of chest, and respiratory failure. Allergic response may be delayed several hours after exposure. Seek immediate medical attention. If known allergy, do not use this product

SILICA: 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 (IARC group 1).

Repeated and prolonged occupational overexposure to Crystalline Silica may cause silicosis, a progressively disabling lung disease.

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.

SECTION VI - STABILITY AND REACTIVITY

Stability: Product is stable under normal storage conditions
Hazardous Polymerization: Will not occur under normal conditions

INCOMPATABILITY:

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

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

Table with 5 columns: Chemical Name, ACGIH TLV, ACGIH TLV-C, ACGIH STEL, OSHA STEL, OSHA PEL. Rows include 4,4' Diphenylmethane Diisocyanate, Light Hydrotreated Naphtha, POLYMERIC MDI Isocyanate, and SILICA, QUARTZ.

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:

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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 container tightly closed when not in use
Wear protective clothing, Wash skin thoroughly after use.
Avoid contact with eyes, skin or clothing.
KEEP OUT OF REACH OF CHILDREN

SECTION IX - TRANSPORT INFORMATION: (not all sizes available)

GROUND TRANSPORT (DOT) - DOMESTIC

Adhesive, Non-regulated

AIR TRANSPORT (DOT) - DOMESTIC

Adhesive, Non-regulated

AIR TRANSPORT (IATA) - INTERNATIONAL

Adhesive, Non-regulated

MARINE - OCEAN TRANSPORT (IMDG)

Adhesive, Non-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

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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, apparatus mentioned, and 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 & safety of the users of this material.