1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE PL PREMIUM FAST GRAB (FORMERLY LOCTITE PL PREMIUM ADVANCED)
IDH number: 1417170

Product type: 1-component-polyurethane adhesive
Region: United States

Company address: Henkel Corporation
One Henkel Way
Rocky Hill, Connecticut 06067

Telephone: 800.624.7767
MEDICAL EMERGENCY Phone: Poison Control Center
1-877-671-4608 (toll free) or 1-303-592-1711
TRANSPORT EMERGENCY Phone: CHEMTREC
1-800-424-9300 (toll free) or 1-703-527-3887

CEPA, Significant New Activity Restriction (SNAc): Not for use in products designed to be used by children under the age of 7.

2. HAZARDS IDENTIFICATION

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>Solid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color:</td>
<td>grey</td>
</tr>
<tr>
<td>Odor:</td>
<td>aromatic, Mild</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEALTH:</td>
</tr>
<tr>
<td>FLAMMABILITY:</td>
</tr>
<tr>
<td>PHYSICAL HAZARD:</td>
</tr>
<tr>
<td>Personal Protection:</td>
</tr>
</tbody>
</table>

WARNING: MAY CAUSE ALLERGIC SKIN AND RESPIRATORY REACTION. CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION. HARMFUL IF INHALED.

Relevant routes of exposure: Eyes, Inhalation, Skin

Potential Health Effects

**Inhalation:** Contains crystalline silica (quartz), which is classified as a possible carcinogen. However, the crystalline silica present in this product is encapsulated in the liquid and will only be liberated if the product is sanded or abraded, and even then what is liberated will not be pure crystalline silica. Appropriate precautions, however, should be taken if the product is sanded or abraded to prevent personnel from breathing the dust. May cause allergic skin and respiratory tract reaction. Moderate respiratory tract irritation. Exposure to diisocyanates may cause the following human health effects: Skin irritation and allergic reactions, respiratory irritation, respiratory sensitization and lung toxicity; some diisocyanates also may cause cancer. The likelihood that these effects will occur depends on a number of factors; among them the level of exposure, frequency of exposure, part of body exposed and sensitivity of the exposed individual. Persons suffering from allergic reactions to isocyanates should avoid contact with the product.

**Skin contact:** Contact with skin can cause irritation and allergic reaction (sensitization) in some individuals. This product may discolor the skin.

**Eye contact:** Causes eye irritation.

**Ingestion:** Do not taste or swallow.

Existing conditions aggravated by exposure: Pre-existing skin or lung allergies may increase the chance of developing exaggerated allergic symptoms from exposure to this product.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

IDH number: 1417170
Product name: LOCTITE PL PREMIUM FAST GRAB (FORMERLY LOCTITE PL PREMIUM ADVANCED)
Hazardous components | CAS NUMBER | %
----------------------|------------|-----
Methylenebis(phenylisocyanate) | 101-68-8 | 10 - 30
Isocyanic acid, polymethylenepolyphenylene ester | 9016-87-9 | 5 - 10
Methylene bisphenyl isocyanate | 26447-40-5 | 1 - 5
Calcium oxide | 1305-78-8 | 1 - 5
Quartz (SiO2) | 14808-60-7 | 0.1 - 1
Titanium dioxide | 13463-67-7 | 0.1 - 1
Limestone | 1317-65-3 | 30 - 60
Bis(2-propylheptyl) phthalate | 53306-54-0 | 5 - 10

4. FIRST AID MEASURES

Inhalation: Move to fresh air. If symptoms persist, seek medical advice. Persons suffering from allergic reactions to isocyanates should avoid contact with the product.

Skin contact: Wash affected area immediately with soap and water. If symptoms develop and persist, get medical attention. Remove contaminated clothes.

Eye contact: In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.

Ingestion: Do not induce vomiting, seek medical advice immediately.

Notes to physician: There is no specific antidote. An individual having a dermal or pulmonary sensitization reaction to this material should be removed from further exposure to any diisocyanate. Treatment based on judgement of the physician in response to reactions of the patient.

5. FIRE FIGHTING MEASURES

Flash point: > 93.34 °C (> 200.01 °F) ASTM D-93
Autoignition temperature: None expected.
Flammable/Explosive limits - lower: Not available.
Flammable/Explosive limits - upper: Not available.
Extinguishing media: Carbon dioxide. Foam Water fog.
Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
Unusual fire or explosion hazards: Fumes and vapors from thermal decompositions vary in composition and toxicity.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Do not empty into drains / surface water / ground water.
Clean-up methods: Ensure adequate ventilation. Wear suitable protective clothing, gloves and eye/face protection.
7. HANDLING AND STORAGE

Handling: Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Avoid spraying/aerosol generation. Avoid extreme temperatures. Protect from moisture. Use only with adequate ventilation. See advice in section 8 Keep out of the reach of children.

Storage: For safe storage, store between 20 °C (68°F) and 40 °C (104°F) Below temperature limit the product properties will change. Keep closed in a cool, dry area. Store away from heat, sparks, flames, or other sources of ignition.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>AIHA WEEL</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylenebis(phenylisocyanate)</td>
<td>0.005 ppm TWA</td>
<td>0.02 ppm (0.2 mg/m3) Ceiling</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Isocyanic acid, polymethyleneepolyphenylene ester</td>
<td>0.005 ppm TWA</td>
<td>0.02 ppm (0.2 mg/m3) Ceiling</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Methylene bisphenyl isocyanate</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Calcium oxide</td>
<td>2 mg/m3 TWA</td>
<td>Not applicable</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Quartz (SiO2)</td>
<td>0.025 mg/m3 TWA Respirable fraction.</td>
<td>2.4 MPPCF TWA Respirable. 0.1 mg/m3 TWA Respirable. 0.3 mg/m3 TWA Total dust.</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>10 mg/m3 TWA</td>
<td>15 mg/m3 PEL Total dust.</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Limestone</td>
<td>10 mg/m3 TWA Total dust.</td>
<td>5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust.</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Bis(2-propylheptyl) phthalate</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Engineering controls: Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.

Respiratory protection: In such cases, or whenever concentrations of MDI exceed the TLV, respiratory protection must be worn. If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH.

Eye/face protection: Safety glasses with side-shields.

Skin protection: Use impermeable gloves and protective clothing as necessary to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

| Physical state:     | Solid     |
| Color:              | grey      |
| Odor:               | aromatic, Mild |
| Odor threshold:     | Not available. |
| pH:                 | Not applicable |
| Vapor pressure:     | Not available. |
| Boiling point/range:| Not available. |
| Melting point/range:| Not available. |
| Specific gravity:   | 1.3 at 23.89 °C (75°F) Approximately |
Vapor density: Not available.
Flash point: > 93.34 °C (> 200.01 °F) ASTM D-93
Flammable/Explosive limits - lower: Not available.
Flammable/Explosive limits - upper: Not available.
Autoignition temperature: None expected.
Evaporation rate: Not available.
Solubility in water: Insoluble
Partition coefficient (n-octanol/water): Not available.
VOC content: 1.7 %; 22 g/l
Viscosity: 18,000 mPa.s

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.
Hazardous reactions: Will not occur.
Conditions to avoid: Moisture.

11. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>NTP Carcinogen</th>
<th>IARC Carcinogen</th>
<th>OSHA Carcinogen (Specifically Regulated)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylenebis(phenylisocyanate)</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Isocyanic acid, polymethyleneopolyphenylene ester</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Methylene bisphenyl isocyanate</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Calcium oxide</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Quartz (SiO2)</td>
<td>Known To Be Human Carcinogen.</td>
<td>Group 1</td>
<td>No</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>No</td>
<td>Group 2B</td>
<td>No</td>
</tr>
<tr>
<td>Limestone</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Bis(2-propylheptyl) phthalate</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Health Effects/Target Organs
- Methylenebis(phenylisocyanate): Irritant, Respiratory, Allergen
- Isocyanic acid, polymethyleneopolyphenylene ester: Allergen, Irritant, Kidney, Liver, Respiratory
- Methylene bisphenyl isocyanate: Allergen, Irritant, Mutagen, Respiratory
- Calcium oxide: Irritant, Corrosive, Eyes
- Quartz (SiO2): Immune system, Lung, Some evidence of carcinogenicity
- Titanium dioxide: Irritant, Respiratory, Some evidence of carcinogenicity
- Limestone: Nuisance dust
- Bis(2-propylheptyl) phthalate: No Target Organs

12. ECOLOGICAL INFORMATION

Ecological information: Not available.
13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: It is the responsibility of the user to determine if an item is hazardous as defined in the Resource Conservation and Recovery Act (RCRA) at the time of disposal. Product uses, transformations, mixtures, processes, etc., may render the resulting material hazardous, under the criteria of ignitability, corrosivity, reactivity and toxicity characteristics of the Toxicity Characteristics Leaching Procedure (TCLP) 40 CFR 261.20-24.

14. TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Environmentally hazardous substances, solid, n.o.s.
Hazard class or division: 9
Identification number: UN 3077
Packing group: III
DOT Reportable quantity: Methylene diphenyl disocyanate

International Air Transportation (ICAO/IATA)

Proper shipping name: Environmentally hazardous substance, solid, n.o.s.
Hazard class or division: 9
Identification number: UN 3077
Packing group: III

Water Transportation (IMO/IMDG)

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard class or division: 9
Identification number: UN 3077
Packing group: III

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12 (b) Export Notification: None above reporting de minimis
CERCLA/SARA Section 302 EHS: None above reporting de minimis
CERCLA/SARA Section 311/312: Immediate Health, Delayed Health
CERCLA/SARA 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 (40 CFR 372). Methylenebis(phenylisocyanate) (CAS# 101-68-8). Isocyanic acid, polymethylenepolyphenylene ester (CAS# 9016-87-9).
California Proposition 65: This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: This Material Safety Data Sheet contains changes from the previous version in Section(s): 1, 2, 7, 15

Prepared by: Mary Ellen Roddy, Sr. Regulatory Affairs Specialist

DISCLAIMER: The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation and its affiliates ("Henkel") does not assume responsibility for any results obtained by persons over whose methods Henkel has no control. It is the user’s responsibility to determine the suitability of Henkel’s products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Henkel’s products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel’s products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.