1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Loctite® PL® Premium Polyurethane Construction Adhesive  
**IDH number:** 1390595  
**Issue date:** 02/08/2021  
**Revision Number:** 005.1

**Product type/use:** 1-component-polyurethane adhesive  
**Item number:** 1390595  
**Region:** United States  
**Restriction of Use:** None identified  
**Company address:** Henkel Corporation  
One Henkel Way  
Rocky Hill, Connecticut 06067  
**Contact information:**  
Telephone: +1 (860) 571-5100  
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  
Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW**

**DANGER:** CAUSES SKIN IRRITATION.  
MAY CAUSE AN ALLERGIC SKIN REACTION.  
CAUSES SERIOUS EYE IRRITATION.  
MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED.  
MAY CAUSE RESPIRATORY IRRITATION.  
CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.

**HAZARD CLASS** | **HAZARD CATEGORY**  
--- | ---  
SKIN IRRITATION | 2  
EYE IRRITATION | 2A  
RESPIRATORY SENSITIZATION | 1  
SKIN SENSITIZATION | 1  
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE | 3  
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE | 1

**PICTOGRAM(S)**

Precautionary Statements

**Prevention:**  
Do not breathe dust or fumes. Wash affected area thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye protection, and face protection. In case of inadequate ventilation wear respiratory protection.

**Response:**  
IF ON SKIN: Wash with plenty of water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. If experiencing respiratory symptoms: Call a poison center or physician. Take off contaminated clothing.

**Storage:**  
Store in a well-ventilated place. Keep container tightly closed. Store locked up.

**Disposal:**  
Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

**IDH number:** 1390595  
**Product name:** Loctite® PL® Premium Polyurethane Construction Adhesive  
**Page 1 of 6**
See Section 11 for additional toxicological information.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Component(s)</th>
<th>CAS Number</th>
<th>Percentage*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc</td>
<td>14807-96-6</td>
<td>&gt;= 30 - &lt; 40</td>
</tr>
<tr>
<td>Methylenebis(phenylisocyanate)</td>
<td>101-68-8</td>
<td>&gt;= 10 - &lt; 20</td>
</tr>
<tr>
<td>Hydrocarbon C11-25 dearomatized</td>
<td>64742-46-7</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Methylene bisphenyl isocyanate</td>
<td>26447-40-5</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Polymeric diphenylmethane disocyanate</td>
<td>9016-87-9</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

### 4. FIRST AID MEASURES

**Inhalation:**
If inhaled, immediately remove the affected person to fresh air. Immediate medical treatment necessary.

**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. Rinse the mouth. Drink plenty of water. Immediate medical advice necessary.

**Symptoms:**
See Section 11.

**Notes to physician:**
An individual having a dermal or pulmonary sensitization reaction to this material should be removed from further exposure to any disocyanate. Treatment based on judgement of the physician in response to reactions of the patient.

### 5. FIRE FIGHTING MEASURES

**Extinguishing media:**
Water fog. Foam Carbon dioxide.

**Special firefighting procedures:**
Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray.

**Unusual fire or explosion hazards:**
None known.

**Hazardous combustion products:**
Nitrous gases. Irritating fumes. Isocyanate vapors.

### 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. Scrape up spilled material and place in a closed container for disposal. Wear suitable protective clothing, gloves and eye/face protection.

### 7. HANDLING AND STORAGE

**Handling:**
Avoid contact with eyes, skin and clothing. Avoid extreme temperatures. Exposure to vapors of heated MDI can be extremely dangerous. Wash thoroughly after handling. Protect from moisture. Use only with adequate ventilation.

**Storage:**
For safe storage, store between 15 °C (59°F) and 30 °C (86°F) Avoid moisture. Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

IDH number: 1390595

Product name: Loctite® PL® Premium Polyurethane Construction Adhesive

Page 2 of 6
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 Component(s)</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>AIHA WEEL</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc</td>
<td>2 mg/m3 TWA Respirable fraction.</td>
<td>0.1 mg/m3 TWA Respirable, 20 MPPCF TWA Respirable.</td>
<td>None</td>
<td>50 ppm</td>
</tr>
<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>Hydrocarbon C11-25 de aromatized</td>
<td>5 mg/m3 TWA Inhalable fraction.</td>
<td>5 mg/m3 PEL Mist.</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>Polymeric diphenylmethane diisocyanate</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Engineering controls: Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination below occupational exposure limits.

Respiratory protection: Observe OSHA regulations for respirator use (29 CFR 1910.134). Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists. Respirator with combination filter for vapor/particulate. However, due to the poor warning properties of MDI, proper fit and timely replacement of filter elements must be ensured.

Eye/face protection: Safety glasses with side-shields. Full face protection should be used if the potential for splashing or spraying of product exists.

Skin protection: Suitable protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Highly viscous, Solid
Color: Tan
Odor: Mild
Odor threshold: Not available
pH: Neutral, Weakly, Alkaline
Vapor pressure: Not available
Boiling point/range: 172 - 341 °C (341.6 - 645.8 °F) no method
Melting point/ range: Not applicable
Specific gravity: 1.294 - 1.378
Vapor density: Heavier than air
Flash point: > 93.34 °C (> 200.01 °F)
Flammable/Explosive limits - lower: 1.6 %
Flammable/Explosive limits - upper: 10.2 %
Autoignition temperature: No information available.
Flammability: Not applicable
Evaporation rate: Not available.
Solubility in water: Slightly soluble
Partition coefficient (n-octanol/water): Not available.
VOC content: < 3 %; 76 g/L (by weight, calculated using CARB method; g/L less water, less exempts calculated using SCAQMD method)
Viscosity: Not available.
Decomposition temperature: Not available.
10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: Contact with moisture, other materials that react with isocyanates, or temperatures above 350° F (177° C), may cause polymerization.

Hazardous decomposition products: Irritating and/or toxic fumes and gases may be emitted upon the product’s decomposition.


Reactivity: Not available.

Conditions to avoid: Avoid moisture. Keep away from open flames, hot surfaces and sources of ignition. Prolonged exposure to heat.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Inhalation, Skin, Eyes, Ingestion

Potential Health Effects/Symptoms

Inhalation: As a result of previous repeated overexposures or a single large dose, certain individuals will develop isocyanate sensitization (chemical asthma) which will cause them to react to a later exposure to isocyanate at levels well below the TLV. Chronic overexposure to isocyanates has been reported to cause lung damage. Dryness of nasal passages, sore throat, cough, tightness of chest, shortness of breath. Persons suffering from allergic reactions to isocyanates should avoid contact with the product. This product may cause sensitization by inhalation and skin contact. May cause respiratory tract irritation.

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

Eye contact: Contact with eyes will cause irritation.

Ingestion: Ingestion of this product may cause nausea, vomiting and diarrhea.

<table>
<thead>
<tr>
<th>Hazardous Component(s)</th>
<th>LD50s and LC50s</th>
<th>Immediate and Delayed Health Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc</td>
<td>None</td>
<td>Irritant, Lung, Some evidence of carcinogenicity</td>
</tr>
<tr>
<td>Methylenebis(phenylisocyanate)</td>
<td>Inhalation LC50 (Rat, 4 h) = 0.38 mg/l</td>
<td>Irritant, Respiratory, Allergen</td>
</tr>
<tr>
<td>Hydrocarbon C11-25 dearomatized</td>
<td>Inhalation LC50 (Rat, 4 h) = 1.72 mg/l</td>
<td>Irritant</td>
</tr>
<tr>
<td>Methylene bisphenyl isocyanate</td>
<td>None</td>
<td>Allergen, Irritant, Mutagen, Respiratory</td>
</tr>
<tr>
<td>Polymeric diphenylmethane diisocyanate</td>
<td>None</td>
<td>Allergen, Irritant, Kidney, Liver, Respiratory</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazardous Component(s)</th>
<th>NTP Carcinogen</th>
<th>IARC Carcinogen</th>
<th>OSHA Carcinogen (Specifically Regulated)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Methylenebis(phenylisocyanate)</td>
<td>No</td>
<td>No</td>
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<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

12. ECOLOGICAL INFORMATION

Ecological information: Not available.
13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)
- Proper shipping name: Not regulated
- Hazard class or division: None
- Identification number: None
- Packing group: None

International Air Transportation (ICAO/IATA)
- Proper shipping name: Not regulated
- Hazard class or division: None
- Identification number: None
- Packing group: None

Water Transportation (IMO/IMDG)
- Proper shipping name: Not regulated
- Hazard class or division: None
- Identification number: None
- Packing group: None

15. REGULATORY INFORMATION

United States Regulatory Information
- TSCA 8 (b) Inventory Status: All components are listed as active or are exempt from listing on the Toxic Substances Control Act (TSCA) 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). Polymeric diphenylmethane diisocyanate (CAS# 9016-87-9).
- California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

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 safety data sheet contains changes from the previous version in sections: This Safety Data Sheet contains changes from the previous version in Section(s): 3, 13, 15

Prepared by: Product Safety and Regulatory Affairs

Issue date: 02/08/2021
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