



Revision Number: 001.0

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE PL POLYURETHANE WINDOW DOOR AND SIDING SEALANT,,
Product type: Sealant
IDH number: 1618182
Region: United States
Company address: Henkel Corporation
 One Henkel Way
 Rocky Hill, Connecticut 06067
Contact information:
 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

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

| | | | |
|------------------------|----------------|-----------------------------|--------------------|
| Physical state: | high viscosity | HEALTH: | *2 |
| Color: | white | FLAMMABILITY: | 1 |
| Odor: | Slight | PHYSICAL HAZARD: | 1 |
| | | Personal Protection: | See MSDS Section 8 |

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

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

Potential Health Effects

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.

Existing conditions aggravated by exposure: Development of preexisting skin or lung allergy symptoms may increase. Asthma.

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

| Hazardous components | CAS NUMBER | % |
|-------------------------------|------------|---------|
| Limestone | 1317-65-3 | 30 - 60 |
| Titanium dioxide | 13463-67-7 | 5 - 10 |
| Stoddard solvent | 8052-41-3 | 5 - 10 |
| Talc | 14807-96-6 | 5 - 10 |
| Calcium oxide | 1305-78-8 | 1 - 5 |
| Toluene-2,4-diisocyanate | 584-84-9 | 1 - 5 |
| Toluene-2,6-diisocyanate | 91-08-7 | 1 - 5 |
| Bis(2-propylheptyl) phthalate | 53306-54-0 | 5 - 10 |

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, seek medical advice immediately. |
| Notes to physician: | 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: | 89 °C (192.2 °F) Certificate of supplier |
| Autoignition temperature: | Not applicable |
| Flammable/Explosive limits - lower: | Not available. |
| Flammable/Explosive limits - upper: | Not available. |
| 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. Wash thoroughly after handling. Protect from moisture. Use only with adequate ventilation.

Storage: For safe storage, store between 18.3 °C (64.9 °F) and 40 °C (104°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.

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.

| Hazardous components | ACGIH TLV | OSHA PEL | AIHA WEEL | OTHER |
|-------------------------------|---|--|-----------|--------|
| Limestone | 10 mg/m3 TWA Total dust. | 5 mg/m3 TWA Respirable fraction. 15 mg/m3 TWA Total dust. | None | None |
| Titanium dioxide | 10 mg/m3 TWA | 15 mg/m3 TWA Total dust. | None | None |
| Stoddard solvent | 100 ppm TWA | 500 ppm (2,900 mg/m3) TWA | None | None |
| Talc | 2 mg/m3 TWA Respirable fraction. | 20 MPPCF TWA 2.4 MPPCF TWA Respirable. 0.1 mg/m3 TWA Respirable. 0.3 mg/m3 TWA Total dust. | None | 50 ppm |
| Calcium oxide | 2 mg/m3 TWA | 5 mg/m3 TWA | None | None |
| Toluene-2,4-diisocyanate | 0.005 ppm TWA 0.02 ppm STEL (Sensitiser.) | 0.02 ppm (0.14 mg/m3) Ceiling | None | None |
| Toluene-2,6-diisocyanate | 0.005 ppm TWA 0.02 ppm STEL (Sensitiser.) | None | None | None |
| Bis(2-propylheptyl) phthalate | None | None | None | None |

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 respiratory 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.

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: high viscosity
Color: white
Odor: Slight
Odor threshold: Not available.
pH: not applicable
Vapor pressure: Not available.
Boiling point/range: Not available.
Melting point/ range: Not applicable

Specific gravity: 1.20
Vapor density: Not available.
Flash point: 89 °C (192.2 °F) Certificate of supplier
Flammable/Explosive limits - lower: Not available.
Flammable/Explosive limits - upper: Not available.
Autoignition temperature: Not applicable
Evaporation rate: Not available.
Solubility in water: Insoluble
Partition coefficient (n-octanol/water): Not available.
VOC content: 2.92 %; 35 g/l

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. nitrogen oxides Aromatic isocyanates. carbon oxides. carbon monoxide Hydrogen cyanide.
Incompatible materials: Oxidizing agents. Alcohols. Water. Strong bases.
Conditions to avoid: Avoid moisture. Keep away from open flames, hot surfaces and sources of ignition. Prolonged exposure to heat.

11. TOXICOLOGICAL INFORMATION

| Hazardous components | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|-------------------------------|-------------------------|-----------------|--|
| Limestone | No | No | No |
| Titanium dioxide | No | Group 2B | No |
| Stoddard solvent | No | No | No |
| Talc | No | No | No |
| Calcium oxide | No | No | No |
| Toluene-2,4-diisocyanate | Anticipated carcinogen. | Group 2B | No |
| Toluene-2,6-diisocyanate | Anticipated carcinogen. | Group 2B | No |
| Bis(2-propylheptyl) phthalate | No | No | No |

| Hazardous components | Health Effects/Target Organs |
|-------------------------------|--|
| Limestone | Nuisance dust |
| Titanium dioxide | Irritant, Respiratory, Some evidence of carcinogenicity |
| Stoddard solvent | Irritant, Central nervous system |
| Talc | Irritant, Lung, Some evidence of carcinogenicity |
| Calcium oxide | Irritant, Corrosive, Eyes |
| Toluene-2,4-diisocyanate | Allergen, Eyes, Irritant, Lung, Respiratory, Some evidence of carcinogenicity |
| Toluene-2,6-diisocyanate | Allergen, Bone Marrow, Corrosive, Eyes, Irritant, Mutagen, Respiratory, Some evidence of carcinogenicity |
| Bis(2-propylheptyl) phthalate | No Data |

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.

Hazardous waste number: U223: Toluene Diisocyanate.

14. TRANSPORT INFORMATION

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

Not available.

International Air Transportation (ICAO/IATA)

Not available.

Water Transportation (IMO/IMDG)

Not available.

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 minimus

CERCLA/SARA Section 302 EHS: None above reporting de minimus
CERCLA/SARA Section 311/312: Immediate Health, Delayed Health, Fire

CERCLA/SARA 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). Toluene-2,4-diisocyanate (CAS# 584-84-9). Toluene-2,6-diisocyanate (CAS# 91-08-7).

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: Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

WHMIS hazard class: D.2.A, D.2.B, B.3

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: First issue.

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