



Revision Number: 002.0

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1. PRODUCT AND COMPANY IDENTIFICATION

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|-------------------------------|--|--------------------|---------------|
| Product name: | Loctite PL400 Subfloor Adhesive | IDH number: | 1652275 |
| Product type: | Assembly adhesive, solvent | Region: | United States |
| Company address: | Contact information: | | |
| Henkel Corporation | Telephone: 800.624.7767 | | |
| One Henkel Way | MEDICAL EMERGENCY Phone: Poison Control Center | | |
| Rocky Hill, Connecticut 06067 | 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: | liquid, Paste | HMIS: | |
| Color: | Light tan | HEALTH: | 2 |
| Odor: | Sweet, Aromatic | FLAMMABILITY: | 3 |
| | | PHYSICAL HAZARD: | 0 |
| | | Personal Protection: | See MSDS Section 8 |
| DANGER: | EXTREMELY FLAMMABLE LIQUID AND VAPOR. | | |
| | VAPOR MAY CAUSE FLASH FIRE. | | |
| | HARMFUL IF SWALLOWED OR INHALED. | | |

Relevant routes of exposure: Inhalation, Skin contact

Potential Health Effects

Inhalation: Irritates the nose, throat and respiratory system. Exposure to high doses may cause central nervous system depression. Such doses may also cause adverse effects in the liver, kidneys, and lungs. Abrasion of cured material such as by sanding or grinding could release respirable particles of silica quartz, a cancer hazard by inhalation. Normal use of this product causes no such release. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Skin contact: Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.

Eye contact: Contact with eyes can cause eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

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

Existing conditions aggravated by exposure: Eye, skin and respiratory disorders.

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 |
| Acetone | 67-64-1 | 10 - 30 |
| Kaolin | 1332-58-7 | 10 - 30 |
| Methyl acetate | 79-20-9 | 1 - 5 |
| Distillates (petroleum), hydrotreated heavy naphthenic | 64742-52-5 | 1 - 5 |
| Titanium dioxide | 13463-67-7 | 0.1 - 1 |
| Quartz (SiO ₂) | 14808-60-7 | 0.1 - 1 |

4. FIRST AID MEASURES

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| Inhalation: | If inhaled, immediately remove the affected person to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms develop and persist, get medical attention. |
| Skin contact: | Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing. |
| 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. |

5. FIRE FIGHTING MEASURES

| | |
|--|--|
| Flash point: | -17 °C (1.4 °F) |
| Autoignition temperature: | Not available. |
| Flammable/Explosive limits - lower: | Not available. |
| Flammable/Explosive limits - upper: | Not available. |
| Extinguishing media: | Foam, dry chemical or carbon dioxide. In case of fire, keep containers cool with water spray. |
| Special firefighting procedures: | Wear a self-contained breathing apparatus with a full face piece operated in pressure-demand or other positive pressure mode. Wear full protective clothing. |
| Unusual fire or explosion hazards: | Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors are heavier than air and may travel along floor to an ignition source. |
| Hazardous combustion products: | Carbon dioxide. Carbon monoxide. |

6. ACCIDENTAL RELEASE MEASURES

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

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|-----------------------------------|--|
| Environmental precautions: | Eliminate all sources of ignition or flammables that may come into contact with a spill of this material. Ventilate area. Do not allow product to enter sewer or waterways. |
| Clean-up methods: | Use noncombustible absorbent material such as sand. Use non-sparking tools for clean-up. Absorb spill with inert material. Shovel material into appropriate container for disposal. Wear suitable protective clothing, gloves and eye/face protection. |

7. HANDLING AND STORAGE

Handling: Do not pressurize, cut, heat or weld containers. Empty product containers may contain product residue. Do not reuse empty containers. Use only in well-ventilated areas. Keep out of the reach of children.

Storage: Keep away from heat, spark and flame. Keep containers closed when not in 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 |
| Acetone | 500 ppm TWA 750 ppm STEL | 1,000 ppm (2,400 mg/m3) TWA | None | None |
| Kaolin | 2 mg/m3 TWA Respirable fraction. | 5 mg/m3 TWA Respirable fraction. 15 mg/m3 TWA Total dust. | None | None |
| Methyl acetate | 200 ppm TWA 250 ppm STEL | 200 ppm (610 mg/m3) TWA | None | None |
| Distillates (petroleum), hydrotreated heavy naphthenic | 5 mg/m3 TWA mist 10 mg/m3 STEL mist 5 mg/m3 TWA Inhalable fraction. | 5 mg/m3 TWA mist 500 ppm (2,000 mg/m3) TWA 5 mg/m3 TWA Mist. | None | None |
| Titanium dioxide | 10 mg/m3 TWA | 15 mg/m3 TWA Total dust. | None | None |
| Quartz (SiO ₂) | 0.025 mg/m3 TWA Respirable fraction. | 2.4 MPPCF TWA Respirable. 0.1 mg/m3 TWA Respirable. 0.3 mg/m3 TWA Total dust. | 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: Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists. When workplace hazards warrant the use of a respirator, appropriate respirators must be used, and a program that follows 29 CFR 1910.134 must be followed.

Eye/face protection: Safety goggles or safety glasses with side shields.

Skin protection: Chemical resistant, impermeable gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: liquid, Paste
Color: Light tan
Odor: Sweet, Aromatic
Odor threshold: Not available.
pH: 7
Vapor pressure: Not available.
Boiling point/range: 56 - 57 °C (132.8 - 134.6 °F)

Melting point/ range: < 0 °C (< 32°F)
Specific gravity: 11.2
Vapor density: 2.0
Flash point: -17 °C (1.4 °F)
Flammable/Explosive limits - lower: Not available.
Flammable/Explosive limits - upper: Not available.
Autoignition temperature: Not available.
Evaporation rate: 14.4
Solubility in water: Miscible
Partition coefficient (n-octanol/water): Not available.
VOC content: 0.3 %; 5.2 g/l (calculated)
Viscosity: < 0.01 cp

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.
Hazardous reactions: Will not occur.
Hazardous decomposition products: Carbon dioxide, carbon monoxide and irritating and/or toxic gases and particulate may be generated by thermal decomposition or combustion.
Incompatible materials: Strong oxidizing agents.
Conditions to avoid: Heat, flames, sparks and other sources of ignition.

11. TOXICOLOGICAL INFORMATION

| Hazardous components | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|--|-------------------------------|-----------------|---|
| Limestone | No | No | No |
| Acetone | No | No | No |
| Kaolin | No | No | No |
| Methyl acetate | No | No | No |
| Distillates (petroleum), hydrotreated heavy naphthenic | No | No | No |
| Titanium dioxide | No | Group 2B | No |
| Quartz (SiO ₂) | Known To Be Human Carcinogen. | Group 1 | No |

| Hazardous components | Health Effects/Target Organs |
|--|---|
| Limestone | Nuisance dust |
| Acetone | Blood, Central nervous system, Irritant, Reproductive |
| Kaolin | Nuisance dust |
| Methyl acetate | Blood, Central nervous system, Eyes, Irritant |
| Distillates (petroleum), hydrotreated heavy naphthenic | Irritant |
| Titanium dioxide | Irritant, Respiratory, Some evidence of carcinogenicity |
| Quartz (SiO ₂) | Immune system, Lung, Some evidence of carcinogenicity |

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

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

The shipping classification in this section are for bulk packaging only. Shipping classification may be different for non-bulk packaging as exceptions may apply. Refer to shipping documents for package specific transportation classification.

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

| | |
|----------------------------------|-----------|
| Proper shipping name: | Adhesives |
| Hazard class or division: | 3 |
| Identification number: | UN 1133 |
| Packing group: | II |
| DOT Reportable quantity: | Acetone |

International Air Transportation (ICAO/IATA)

| | |
|----------------------------------|-----------|
| Proper shipping name: | Adhesives |
| Hazard class or division: | 3 |
| Identification number: | UN 1133 |
| Packing group: | II |

Water Transportation (IMO/IMDG)

| | |
|----------------------------------|-----------|
| Proper shipping name: | ADHESIVES |
| Hazard class or division: | 3 |
| Identification number: | UN 1133 |
| Packing group: | II |

15. REGULATORY INFORMATION

United States Regulatory Information

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|--|---|
| 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: | None above reporting de minimus |
| 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. |
| WHMIS hazard class: | B.2, D.2.B, D.2.A |

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: Updated composition in Section 3.

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