



Revision Number: 000.0

Issue date: 05/27/2010

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product name:** Loctite PL400 Subfloor & Deck Adhesive  
**Product type:** Assembly adhesive, solvent  
**Company address:** Henkel Corporation, One Henkel Way, Rocky Hill, Connecticut 06067  
**IDH number:** 1390036 1390597  
**Region:** United States  
**Contact information:** Telephone: 800.624.7767, Transportation Emergency Telephone: 800.424.9300

**2. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

<b>Physical state:</b>	pasty	<b>HEALTH:</b>	2
<b>Color:</b>	beige	<b>FLAMMABILITY:</b>	3
<b>Odor:</b>	slightly, mineral-oil-like	<b>PHYSICAL HAZARD:</b>	0
		<b>Personal Protection:</b>	See MSDS Section 8

**DANGER:** EXTREMELY FLAMMABLE LIQUID AND VAPOR.  
 VAPOR MAY CAUSE FLASH FIRE.  
 HARMFUL IF SWALLOWED OR INHALED.  
 MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

**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. Overexposure to hexane may result in peripheral and central nervous system damage, which may be permanent. 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	%
Naphtha (petroleum), solvent-refined light	64741-84-0	10 - 30
Toluene	108-88-3	5 - 10
Distillates, petroleum, steam-cracked, polymd.	68131-77-1	5 - 10
n-Hexane	110-54-3	5 - 10
Ethanol	64-17-5	1 - 5
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	1 - 5
Titanium dioxide	13463-67-7	0.1 - 1
Quartz (SiO <sub>2</sub> )	14808-60-7	0.1 - 1

### 4. FIRST AID MEASURES

<b>Inhalation:</b>	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.
<b>Skin contact:</b>	Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.
<b>Eye contact:</b>	In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.
<b>Ingestion:</b>	Do not induce vomiting, seek medical advice immediately.

### 5. FIRE FIGHTING MEASURES

<b>Flash point:</b>	-17.78 °C (0°F) no method
<b>Autoignition temperature:</b>	Not available
<b>Flammable/Explosive limits - lower:</b>	1 %
<b>Flammable/Explosive limits - upper:</b>	6.5 %
<b>Extinguishing media:</b>	Foam, dry chemical or carbon dioxide. In case of fire, keep containers cool with water spray.
<b>Special firefighting procedures:</b>	Wear a self-contained breathing apparatus with a full face piece operated in pressure-demand or other positive pressure mode. Wear full protective clothing.
<b>Unusual fire or explosion hazards:</b>	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.
<b>Hazardous combustion products:</b>	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.

<b>Environmental precautions:</b>	Eliminate all sources of ignition or flammables that may come into contact with a spill of this material. Ventilate area.
<b>Clean-up methods:</b>	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
Naphtha (petroleum), solvent-refined light	None	None	None	None
Toluene	20 ppm TWA	200 ppm TWA 300 ppm Ceiling 500 ppm MAX. CONC 10 minutes	None	None
Distillates, petroleum, steam-cracked, polymd.	None	None	None	None
n-Hexane	(SKIN) 50 ppm TWA	500 ppm (1,800 mg/m3) TWA	None	None
Ethanol	1,000 ppm STEL	1,000 ppm (1,900 mg/m3) TWA	None	None
Distillates (petroleum), hydrotreated heavy naphthenic	5 mg/m3 TWA mist 10 mg/m3 STEL mist	5 mg/m3 TWA mist	None	None
Titanium dioxide	10 mg/m3 TWA	15 mg/m3 TWA Total dust.	None	None
Quartz (SiO <sub>2</sub> )	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:** Suitable protective clothing

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	pasty
<b>Color:</b>	beige
<b>Odor:</b>	slightly, mineral-oil-like
<b>Odor threshold:</b>	Not available
<b>pH:</b>	not applicable
<b>Vapor pressure:</b>	155 mm hg (20 °C (68°F))
<b>Boiling point/range:</b>	71.0 - 110.0 °C (159.8 - 230°F) (solvent)
<b>Melting point/ range:</b>	Not available
<b>Specific gravity:</b>	1.101
<b>Vapor density:</b>	Heavier than air
<b>Flash point:</b>	-17.78 °C (0°F) no method

**Flammable/Explosive limits - lower:** 1 %  
**Flammable/Explosive limits - upper:** 6.5 %  
**Autoignition temperature:** Not available  
**Evaporation rate:** 4.8 (Butyl acetate = 1)  
**Solubility in water:** Insoluble  
**Partition coefficient (n-octanol/water):** Not available  
**VOC content:** 32 %; 370 g/l (calculated)

## 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)
Naphtha (petroleum), solvent-refined light	No	No	No
Toluene	No	No	No
Distillates, petroleum, steam-cracked, polymd.	No	No	No
n-Hexane	No	No	No
Ethanol	No	No	No
Distillates (petroleum), hydrotreated heavy naphthenic	No	No	No
Titanium dioxide	No	Group 2B	No
Quartz (SiO <sub>2</sub> )	Known carcinogen.	Group 1	No

Hazardous components	Health Effects/Target Organs
Naphtha (petroleum), solvent-refined light	Irritant
Toluene	Behavioral, Cardiac, Central nervous system, Developmental, Ear, Irritant
Distillates, petroleum, steam-cracked, polymd.	Irritant
n-Hexane	Developmental, Irritant, Lung, Nervous System, Reproductive
Ethanol	Irritant, Central nervous system
Distillates (petroleum), hydrotreated heavy naphthenic	Irritant
Titanium dioxide	Irritant, Respiratory, Some evidence of carcinogenicity
Quartz (SiO <sub>2</sub> )	Immune system, Lung, Some evidence of carcinogenicity

## 12. ECOLOGICAL INFORMATION

**Ecological information:** Not available

## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

<b>Recommended method of disposal:</b>	Dispose of according to Federal, State and local governmental regulations.
<b>Hazardous waste number:</b>	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 classifications in this sections are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

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

<b>Proper shipping name:</b>	Adhesives
<b>Hazard class or division:</b>	3
<b>Identification number:</b>	UN 1133
<b>Packing group:</b>	III
<b>DOT Reportable quantity:</b>	Toluene
<b>Exceptions:</b>	Consumer Commodity ORM-D (Not more than 5 L)

### International Air Transportation (ICAO/IATA)

<b>Proper shipping name:</b>	Adhesives
<b>Hazard class or division:</b>	3
<b>Identification number:</b>	UN 1133
<b>Packing group:</b>	III
<b>Exceptions:</b>	Consumer Commodity, ID 8000, Class 9, (Not more than 5 L)

### Water Transportation (IMO/IMDG)

<b>Proper shipping name:</b>	ADHESIVES (Solvent naphtha)
<b>Hazard class or division:</b>	3
<b>Identification number:</b>	UN 1133
<b>Packing group:</b>	III
<b>Marine pollutant:</b>	Solvent naphtha
<b>Exceptions:</b>	Limited quantity (Not more than 5 L).

## 15. REGULATORY INFORMATION

### United States Regulatory Information

<b>TSCA 8 (b) Inventory Status:</b>	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
<b>TSCA 12(b) Export Notification:</b>	None above reporting de minimus
<b>CERCLA/SARA Section 302 EHS:</b>	None above reporting de minimus
<b>CERCLA/SARA Section 311/312:</b>	Immediate Health, Delayed Health, Fire
<b>CERCLA/SARA 313:</b>	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 (CAS# 108-88-3). n-Hexane (CAS# 110-54-3).
<b>California Proposition 65:</b>	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

<b>CEPA DSL/NDSL Status:</b>	<b>Not applicable.</b>
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## 16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

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

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