



Revision Number: 002.0

Issue date: 02/10/2011

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LePage PL400 Sub-Floor & Decking Adhesive
Product use: Solvent based adhesive
Company address: Henkel Canada Corporation
 2225 Meadowpine Boulevard
 Mississauga, Ontario L5N 7P2
IDH number: 526370 1421917
Region: Canada
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: pasty
Color: Beige
Odor: Slightly, mineral-oil-like
WHMIS hazard class: B.4, D.2.A, D.2.B

DANGER: 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. 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.

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Toluene	108-88-3	30 - 60
Distillates, petroleum, steam-cracked, polyimd.	68131-77-1	10 - 30
n-Heptane	142-82-5	1 - 5
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	1 - 5
Titanium dioxide	13463-67-7	0.1 - 1
Quartz (SiO2)	14808-60-7	0.1 - 1

4. FIRST AID MEASURES

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:	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothes. If symptoms develop and persist, get medical attention.
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:	6.7 °C (44.06 °F) no method
Autoignition temperature:	Not available
Flammable/Explosive limits - lower:	Not available
Flammable/Explosive limits - upper:	Not available
Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide. Do not direct a solid stream of water or foam into hot, burning pools; this may result in frothing and increase fire intensity. 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. Fumes and vapors from thermal decompositions vary in composition and toxicity.
Hazardous combustion products:	Carbon dioxide. Carbon monoxide. Acrid smoke and fumes.
Sensitivity to Mechanical Impact:	Not sensitive to mechanical impact.
Sensitivity to static discharge:	Electrostatic charge may build-up during handling. Grounding of equipment is recommended.

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:	Eliminate all sources of ignition or flammables that may come into contact with a spill of this material. Ventilate area.
Clean-up methods:	Absorb spill with inert material. Shovel material into appropriate container for disposal. Wear suitable protective clothing, gloves and eye/face protection. Clean residue with soap and water. Do not allow product to enter sewer or waterways.

7. HANDLING AND STORAGE

Handling:	During use and until all vapors are gone: Keep area ventilated - do not smoke; extinguish all flames, pilot lights, and heaters; turn off stoves, electrical tools and appliances, and any other sources of ignition. Do not inhale vapors and fumes. Avoid contact with eyes, skin and clothing. Do not taste or swallow. Keep out of the reach of children. Wash thoroughly after handling.
------------------	---

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
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-Heptane	400 ppm TWA 500 ppm STEL	500 ppm (2,000 mg/m ³) TWA	None	None
Distillates (petroleum), hydrotreated heavy naphthenic	5 mg/m ³ TWA mist 10 mg/m ³ STEL mist 5 mg/m ³ TWA Inhalable fraction.	5 mg/m ³ TWA mist 500 ppm (2,000 mg/m ³) TWA 5 mg/m ³ TWA Mist.	None	None
Titanium dioxide	10 mg/m ³ TWA	15 mg/m ³ TWA Total dust.	None	None
Quartz (SiO ₂)	0.025 mg/m ³ TWA Respirable fraction.	2.4 MPPCF TWA Respirable. 0.1 mg/m ³ TWA Respirable. 0.3 mg/m ³ 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:

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	pasty
Color:	Beige
Odor:	Slightly, mineral-oil-like
Odor threshold:	Not available
pH:	not applicable
Vapor pressure:	> 100 mm hg (25 °C (77°F))
Boiling point/range:	Not available
Melting point/ range:	Not available
Specific gravity:	1.21
Vapor density:	Heavier than air
Flash point:	6.7 °C (44.06 °F) no method
Flammable/Explosive limits - lower:	Not available
Flammable/Explosive limits - upper:	Not available
Autoignition temperature:	Not available
Evaporation rate:	1.6 (Butyl acetate = 1)
Solubility in water:	Negligible
Partition coefficient (n-octanol/water):	Not applicable

VOC content:

32 %; 387 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 (peroxides, chlorine, strong acids).
Conditions to avoid:	Heat, flames, sparks and other sources of ignition.

11. TOXICOLOGICAL INFORMATION

Toxicologically synergistic products: Not available

Refer to the following for Irritancy of Product, Sensitization to Product, Carcinogenicity, Reproductive Toxicity, Teratogenicity, and Mutagenicity.

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)	ACGIH Carcinogen
Toluene	No	No	No	Group A4
Distillates, petroleum, steam-cracked, polymd.	No	No	No	No
n-Heptane	No	No	No	No
Distillates (petroleum), hydrotreated heavy naphthenic	No	No	No	Group A4
Titanium dioxide	No	Group 2B	No	Group A4
Quartz (SiO ₂)	Known carcinogen.	Group 1	No	Group A2

Hazardous components	LD50s and LC50s	Health Effects/Target Organs
Toluene	Oral LD50 (RAT) = 5,000 mg/kg Oral LD50 (RAT) = 2.6 g/kg Dermal LD50 (rabbit) = 12,124 mg/kg Inhalation LC50 (RAT, 1 h) = 26,700 mg/l Inhalation LC50 (RAT, 4 h) = 8,000 mg/l Inhalation LC50 (RAT, 2 h) = 12,200 mg/l	Behavioral, Cardiac, Central nervous system, Developmental, Ear, Irritant
Distillates, petroleum, steam-cracked, polymd.	None	Irritant
n-Heptane	Inhalation LC50 (RAT, 4 h) = 103 mg/l	Central nervous system, Irritant
Distillates (petroleum), hydrotreated heavy naphthenic	None	Irritant
Titanium dioxide	None	Irritant, Respiratory, Some evidence of carcinogenicity
Quartz (SiO ₂)	None	Immune system, Lung, Some evidence of carcinogenicity

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 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.

Canada Transportation of Dangerous Goods - Ground

Proper shipping name: ADHESIVES
Hazard class or division: 3
Identification number: UN 1133
Packing group: II
Exceptions: Consumer Commodity, (Not more than 5 L)

International Air Transportation (ICAO/IATA)

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

Water Transportation (IMO/IMDG)

Proper shipping name: ADHESIVES
Hazard class or division: 3
Identification number: UN 1133
Packing group: II
Exceptions: Limited quantity (Not more than 5 L).

15. REGULATORY INFORMATION

Canada Regulatory Information

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

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.

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: Reviewed MSDS. Reissued with new date., Expanded chemical information in Section 2 and related sections.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR), and the MSDS contains all the information required by the CPR.

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 does not assume responsibility for any results obtained by persons over whose methods Henkel Corporation 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 of Henkel Corporation's products. In light of the foregoing, Henkel Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation further disclaims any liability for consequential or incidental damages of any kind, including lost profits.