



Revision Number: 004.0

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1. IDENTIFICATION

Product name:	LOCTITE LB 8012 MOLY PASTE known as LOCTITE MOLY PASTE 12OZ AE EN	IDH number:	1852755
Product type/	Antiseize	Item number:	1852755
Recommended use:		Region:	Canada
Restriction of Use:	None identified	Contact information:	
Company address:	Henkel Canada Corporation Meadowpine Boulevard 2515 Mississauga, Ontario L5N 6C3		Telephone: +1 (905) 814-6511 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 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:

H223 - FLAMMABLE AEROSOL.
H229 - PRESSURIZED CONTAINER: MAY BURST IF HEATED.
H304 - MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.
H315 - CAUSES SKIN IRRITATION.
H318 - CAUSES SERIOUS EYE DAMAGE.
H336 - MAY CAUSE DROWSINESS OR DIZZINESS.

HAZARD CLASS	HAZARD CATEGORY
AEROSOL	2
SKIN IRRITATION	2
SERIOUS EYE DAMAGE	1
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3
ASPIRATION HAZARD	1

PICTOGRAM(S)



Precautionary Statements

Prevention:

P210 - Keep away from heat, sparks, open flames, hot surfaces - no smoking.
P211 - Do not spray on an open flame or other ignition source.
P251 - Do not pierce or burn, even after use.
P261 - Avoid breathing mist or spray.
P264 - Wash affected area thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.

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Response: P280 - Wear protective gloves, eye protection, and face protection.
P301+P310 - IF SWALLOWED: Immediately call a physician or poison control center.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P304+P340+P312 - 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.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331 - Do NOT induce vomiting.
P332+P313 - If skin irritation occurs: Get medical attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Storage: P501 - Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.
Disposal:

Other hazards Not available.

Classification complies with Canadian Hazardous Products Regulations and is consistent with the provision of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Weight %*
Propane/Isobutane	68476-86-8	10 - 30
Molybdenum disulphide	1317-33-5	10 - 30
n-Heptane	142-82-5	10 - 30
acetone	67-64-1	10 - 30
Methyl acetate	79-20-9	10 - 30
Calcium dihydroxide	1305-62-0	1 - 5
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	1 - 5
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	1 - 5

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

4. FIRST AID MEASURES

First Aid Measures by likely routes of exposure

Inhalation: Move to fresh air. If symptoms develop and persist, get medical attention.

Skin contact: If symptoms develop and persist, get medical attention. Wash affected area immediately with soap and water.

Eye contact: Get medical attention. Immediately flush eyes with plenty of water for at least 15 minutes.

Ingestion: Do not induce vomiting: contains petroleum distillates and/or aromatic solvents. Aspiration may cause pulmonary edema and pneumonitis. Get immediate medical attention.

Most important symptoms and effects (acute and delayed): The most important known symptoms and effects, both acute and delayed, are described in Section 11: Toxicological Information.

Indication of any immediate medical attention / special treatment needed: Not available.

5. FIRE FIGHTING MEASURES

Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.
Improper extinguishing agents:	Not available.
Special firefighting procedures:	Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. Wear a self-contained breathing apparatus with a full face piece operated in pressure-demand or other positive pressure mode.
Unusual fire or explosion hazards:	Closed containers may rupture (due to build up of pressure) when exposed to extreme heat. Do not puncture or incinerate pressurized containers.
Hazardous combustion products:	Oxides of carbon.

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 allow product to enter sewer or waterways.
Clean-up methods:	Eliminate ignition sources including sources of electrical, static or frictional sparks. Wipe up with adsorbent material (e.g. cloth, fleece). Rinse spill area with water. Store in a partly filled, closed container until disposal.

7. HANDLING AND STORAGE

Handling:	Keep away from heat, spark and flame. Avoid contact with eyes, skin and clothing. Do not breathe gas/fumes/vapor/spray.
Storage:	Keep in a cool, well ventilated area. Store away from heat, sparks, flames, or other sources of ignition. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst.

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 Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Molybdenum disulphide	10 mg/m3 TWA (as Mo) Inhalable fraction. 3 mg/m3 TWA (as Mo) Respirable fraction. 0.5 mg/m3 TWA (as Mo) Respirable fraction.	15 mg/m3 PEL (as Mo) Total dust. 5 mg/m3 PEL (as Mo)	None	None
n-Heptane	400 ppm TWA 500 ppm STEL	500 ppm (2,000 mg/m3) PEL	None	None
acetone	250 ppm TWA 500 ppm STEL	1,000 ppm (2,400 mg/m3) PEL	None	None
Methyl acetate	200 ppm TWA 250 ppm STEL	200 ppm (610 mg/m3) PEL	None	None
Calcium dihydroxide	5 mg/m3 TWA	5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust. 50 MPPCF TWA Total dust. 5 mg/m3 TWA Respirable fraction. 15 MPPCF TWA Respirable fraction. 15 mg/m3 TWA Total dust.	None	None
Distillates (petroleum), hydrotreated heavy naphthenic	None	500 ppm (2,000 mg/m3) PEL 5 mg/m3 PEL Mist.	None	None
Distillates (petroleum), hydrotreated light naphthenic	None	5 mg/m3 TWA mist 10 mg/m3 TWA mist 5 mg/m3 PEL Mist. 500 ppm (2,000 mg/m3) PEL	None	None

Engineering controls:

Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination.

Respiratory protection:

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:	Aerosol, Liquid
Color:	Black
Odor:	Solvent
Odor threshold:	Not available.
pH:	Not available.
Vapor pressure:	Not available.
Boiling point/range:	Not available.
Melting point/ range:	Not available.
Density/Relative density:	7.89
Relative vapor density:	Not available.
Flash point:	< -17 °C (< 1.4 °F)
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Autoignition temperature:	Not available.

Flammability:	Not applicable
Evaporation rate:	Not available.
Solubility:	Not available.
Partition coefficient n-octanol/water (logarithmic value):	Not available.
VOC content:	45 % (calculated)
Dynamic viscosity:	Not available.
Kinematic viscosity:	Not available.
Particle characteristics:	Not available.
Decomposition temperature:	Not available.

10. STABILITY AND REACTIVITY

Stability:	Stable
Hazardous reactions:	Not available.
Hazardous decomposition products:	Oxides of carbon.
Incompatible materials:	Oxidizing agents.
Reactivity:	Not available.
Conditions to avoid:	Extremes of temperature and direct sunlight.

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure:	Skin, Inhalation, Eyes, Ingestion
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Potential Health Effects/Symptoms

Inhalation:	May cause respiratory tract irritation. May cause central nervous system effects with nausea, dizziness and headache.
Skin contact:	Causes skin irritation.
Eye contact:	Causes serious eye damage. Direct spray or vapors will irritate and may harm eyes. Direct contact with liquid may cause corneal damage and visual impairment.
Ingestion:	Not expected under normal conditions of use. May cause gastrointestinal tract irritation if swallowed.

Hazardous Component(s)	LD50s and LC50s
Propane/Isobutane	Inhalation LC50 (Rat, 4 h) = > 13023 ppm Inhalation LC50 (Rat, 4 h) = > 13023 ppm
Molybdenum disulphide	None
n-Heptane	Inhalation LC50 (Rat, 4 h) = > 73.5 mg/l Inhalation LC50 (Rat, 4 h) = > 29.29 mg/l
acetone	Oral LD50 (Mouse) = 5.2 g/kg Oral LD50 (Mouse) = 3,000 mg/kg Oral LD50 (Rabbit) = 5,340 mg/kg Oral LD50 (Rat) = 5,800 mg/kg Oral LD50 (Rat) = 9,800 mg/kg Dermal LD50 (Rabbit) = 20,000 mg/kg Inhalation LC50 (Rat, 4 h) = 76 mg/l Inhalation LC50 (Rat, 4 h) = 50.1 mg/l
Methyl acetate	Oral LD50 (Rabbit) = 3.7 g/kg
Calcium dihydroxide	Oral LD50 (Rat) = 7,340 mg/kg
Distillates (petroleum), hydrotreated heavy naphthenic	Inhalation LC50 (Rat, 4 h) = > 5.3 mg/l Inhalation LC50 (Rat, 4 h) = > 5.53 mg/l Inhalation LC50 (Rat, 4 h) = > 3.9 mg/l Inhalation LC50 (Rat, 4 h) = > 4.026 mg/l Inhalation LC50 (Rat, 4 h) = > 5.2 mg/l Inhalation LC50 (Rat, 4 h) = 5.7 mg/l Inhalation LC50 (Rat, 4 h) = > 2.4 mg/l Inhalation LC50 (Rat, 4 h) = > 5 mg/l Inhalation LC50 (Rat, 4 h) = 2.18 mg/l Inhalation LC50 (Rat, 4 h) = > 3.9 mg/l Inhalation LC50 (Rat, 4 h) = > 5.3 mg/l Inhalation LC50 (Rat, 4 h) = 10.5 mg/l Inhalation LC50 (Rat, 4 h) = 9.6 mg/l Inhalation LC50 (Rat, 4 h) = 9.6 mg/l Inhalation LC50 (Rat, 4 h) = 10.5 mg/l Inhalation LC50 (Rat, 4 h) = > 5 mg/l Inhalation LC50 (Rat, 4 h) = > 5.2 mg/l Inhalation LC50 (Rat, 4 h) = > 5 mg/l Inhalation LC50 (Rat, 4 h) = > 5 mg/l Inhalation LC50 (Rat, 4 h) = > 2.5 mg/l Inhalation LC50 (Rat, 4 h) = > 4.7 mg/l Inhalation LC50 (Rat, 4 h) = < 5.7 mg/l

Distillates (petroleum), hydrotreated light naphthenic	Inhalation LC50 (Rat, 4 h) = < 5.7 mg/l Inhalation LC50 (Rat, 4 h) = 10.5 mg/l Inhalation LC50 (Rat, 4 h) = > 5 mg/l Inhalation LC50 (Rat, 4 h) = > 5.3 mg/l Inhalation LC50 (Rat, 4 h) = 9.6 mg/l Inhalation LC50 (Rat, 4 h) = > 4.7 mg/l Inhalation LC50 (Rat, 4 h) = > 2.4 mg/l Inhalation LC50 (Rat, 4 h) = > 5.3 mg/l Inhalation LC50 (Rat, 4 h) = 10.5 mg/l Inhalation LC50 (Rat, 4 h) = > 4.026 mg/l Inhalation LC50 (Rat, 4 h) = > 5.2 mg/l Inhalation LC50 (Rat, 4 h) = 9.6 mg/l Inhalation LC50 (Rat, 4 h) = > 3.9 mg/l Inhalation LC50 (Rat, 4 h) = > 3.9 mg/l Inhalation LC50 (Rat, 4 h) = 2.18 mg/l Inhalation LC50 (Rat, 4 h) = > 5 mg/l Inhalation LC50 (Rat, 4 h) = > 5 mg/l Inhalation LC50 (Rat, 4 h) = 5.7 mg/l Inhalation LC50 (Rat, 4 h) = > 5.53 mg/l Inhalation LC50 (Rat, 4 h) = > 2.5 mg/l Inhalation LC50 (Rat, 4 h) = > 5.2 mg/l Inhalation LC50 (Rat, 4 h) = > 5 mg/l
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Hazardous Component(s)	Immediate Health Effects	Delayed Health Effects	Chronic Health Effects
Propane/Isobutane			
Molybdenum disulphide			
n-Heptane	Irritant		Central nervous system
acetone	Irritant		Central nervous system
Methyl acetate	Irritant		Blood Central nervous system Eyes
Calcium dihydroxide	Irritant Corrosive		
Distillates (petroleum), hydrotreated heavy naphthenic	Irritant		
Distillates (petroleum), hydrotreated light naphthenic	Irritant		

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Propane/Isobutane	No	No	No
Molybdenum disulphide	No	No	No
n-Heptane	No	No	No
acetone	No	No	No
Methyl acetate	No	No	No
Calcium dihydroxide	No	No	No
Distillates (petroleum), hydrotreated heavy naphthenic	No	No	No
Distillates (petroleum), hydrotreated light naphthenic	No	No	No

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 packaging.

Canada Transportation of Dangerous Goods - Ground

Proper shipping name: AEROSOLS
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name: Aerosols, flammable
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None

Water Transportation (IMO/IMDG)

Proper shipping name: AEROSOLS (n-Heptane)
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None
Marine pollutant: n-Heptane

15. REGULATORY INFORMATION

Canada Regulatory Information

CEPA DSL/NDL 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 as active or are exempt from listing on the Toxic Substances Control Act (TSCA) inventory.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format. 2, 4, 8, 9, 11, 14

Prepared by: Product Safety and Regulatory Affairs

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