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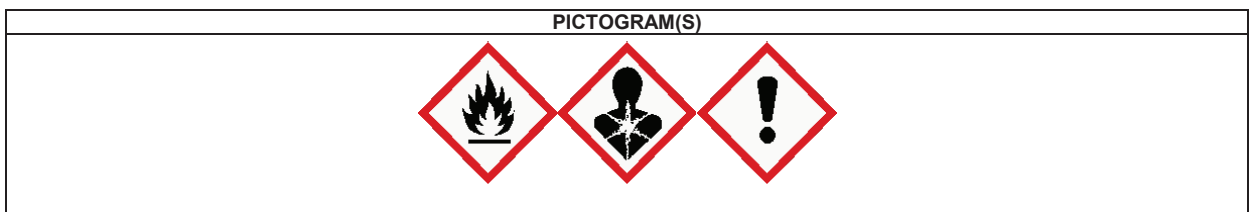
1. IDENTIFICATION

Product name:	LOCTITE LB 8017 known asLOCTITE MOLY DRY FILM 1.3LB EN	IDH number:	233501
Product type/ Recommended use:	Antiseize	Item number:	39896
Restriction of Use:	None identified	Region:	United States
Company address:	Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067	Contact information:	Telephone: +1 (860) 571-5100 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:	H226 - FLAMMABLE LIQUID AND VAPOUR. H304 - MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. H315 - CAUSES SKIN IRRITATION. H319 - CAUSES SERIOUS EYE IRRITATION. H335 - MAY CAUSE RESPIRATORY IRRITATION. H336 - MAY CAUSE DROWSINESS OR DIZZINESS. H351 - SUSPECTED OF CAUSING CANCER. H361 - SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD. H373 - MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	3
SKIN IRRITATION	2
EYE IRRITATION	2A
CARCINOGENICITY	2
REPRODUCTIVE TOXICITY	2
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	2
ASPIRATION HAZARD	1



Precautionary Statements

Prevention:

- P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- P210 - Keep away from heat, sparks, open flames, hot surfaces - no smoking.
- P233 - Keep container tightly closed.
- P240 - Ground and bond container and receiving equipment.
- P241 - Use explosion-proof equipment.
- P242 - Use non-sparking tools.

Response: P243 - Take action to prevent static discharges.
P260 - Do not breathe vapors, mist, or spray.
P264 - Wash affected area thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves, clothing, eye and face protection.
P301+P310 - IF SWALLOWED: Immediately call a physician or poison control center.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing.
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.
P308+P313 - IF exposed or concerned: Get medical attention.
P331 - Do NOT induce vomiting.
P332+P313 - If skin irritation occurs: Get medical attention.
P337+P313 - If eye irritation persists: Get medical attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.
Storage: P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
Disposal: P501 - Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Other hazards Not available.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions 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 %*
Molybdenum disulphide	1317-33-5	10 - 30
1,2,4-Trimethylbenzene	95-63-6	10 - 30
Graphite	7782-42-5	10 - 30
Mesitylene	108-67-8	5 - 10
propylbenzene	103-65-1	5 - 10
Toluene	108-88-3	5 - 10
Solvent naphtha (petroleum) C8-10 <0,1% benzene	64742-95-6	5 - 10
Xylenes	1330-20-7	1 - 5
1,2,3-trimethylbenzene	526-73-8	1 - 5
Cumene	98-82-8	0.1 - 1
Ethylbenzene	100-41-4	0.1 - 1

* 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 not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Skin contact: Remove contaminated clothing and footwear. Wash with soap and water. If symptoms develop and persist, get medical attention. Wash clothing before reuse.

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

Ingestion: Do not induce vomiting. Aspiration may cause pulmonary edema and pneumonitis. Never give anything by mouth to an unconscious person. Get 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: Foam, dry chemical or carbon dioxide. Do not use high volume water jet.

Improper extinguishing agents: Not available.

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: Approach fire from upwind to avoid hazardous vapors and toxic decomposition products. In case of fire, keep containers cool with water spray.

Hazardous combustion products: Oxides of carbon. Oxides of nitrogen. Oxides of sulfur. Irritating vapors. Toxic fumes.

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: Ensure adequate ventilation. Remove all sources of ignition. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up spilled material. Avoid creating dust. Store in a partly filled, closed container until disposal.

7. HANDLING AND STORAGE

Handling: Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Make sure containers are properly grounded before use or transfer of material. Refer to Section 8.

Storage: 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 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
1,2,4-Trimethylbenzene	10 ppm TWA	None	None	None
Graphite	2 mg/m3 TWA Respirable fraction.	5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust. 5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust.	None	None
Mesitylene	10 ppm TWA	None	None	None
Toluene	20 ppm TWA	200 ppm TWA 300 ppm Ceiling 500 ppm MAX. CONC 10 minutes	None	None
Solvent naphtha (petroleum) C8-10 <0,1% benzene	(SKIN) (as total hydrocarbon vapor) Non-aerosol. 200 mg/m3 TWA (as total hydrocarbon vapor) Non-aerosol.	None	None	50 ppm
Xylenes	20 ppm TWA	100 ppm (435 mg/m3) PEL	None	None
1,2,3-trimethylbenzene	10 ppm TWA	None	None	None
Cumene	5 ppm TWA	50 ppm (245 mg/m3) PEL (SKIN)	None	None
Ethylbenzene	20 ppm TWA	100 ppm (435 mg/m3) PEL	None	None

Engineering controls:

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Respiratory protection:

Observe OSHA regulations for respirator use (29 CFR 1910.134). Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

Eye/face protection:

Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists. Safety showers and eye wash stations should be available.

Skin protection:

Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Liquid

Color:

Gray / Grey

Odor:

aromatic

Odor threshold:

Not available.

pH:

Not applicable, Product is non-soluble (in water).

Vapor pressure:

31 hPa (20 °C (68°F)) 127 hPa (50 °C (122°F))

Boiling point/range:

76 - 168 °C (168.8 - 334.4 °F)None

Melting point/ range:

Not applicable, Product is a liquid

Density/Relative density:

1.5103

Relative vapor density:

> 1 20 °C Heavier than air.

Flash point:

29 °C (84.2 °F)

Flammable/Explosive limits - lower:	0.9 %
Flammable/Explosive limits - upper:	7 %
Autoignition temperature:	Not determined
Flammability:	Flammable liquid
Evaporation rate:	Slower than butyl acetate.
Solubility:	Not miscible or difficult to mix Water
Partition coefficient n-octanol/water (logarithmic value):	Not available.
VOC content:	48.79 %; 637 g/l
Dynamic viscosity:	Not available.
Kinematic viscosity:	0.63 mm ² /s
Particle characteristics:	Not applicable, Product is a liquid
Decomposition temperature:	Not available.

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of storage and use.
Hazardous reactions:	None under normal processing.
Hazardous decomposition products:	Oxides of carbon. Oxides of nitrogen. Oxides of sulfur. Irritating vapors. Toxic fumes.
Incompatible materials:	Oxidizing agents. Strong acids and strong bases. Hydrogen peroxide. Reducing agents. Alkalis.
Reactivity:	Not available.
Conditions to avoid:	Prolonged exposure to heat. Store away from incompatible materials.

11. TOXICOLOGICAL INFORMATION

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

Inhalation: Central nervous system depression, including dizziness, drowsiness, fatigue, nausea, headache, unconsciousness. May cause respiratory irritation. May be harmful if inhaled.
Skin contact: Causes skin irritation. Repeated or prolonged contact can result in drying of skin.
Eye contact: Causes serious eye irritation.
Ingestion: Principal hazard of ingestion is aspiration into the lungs and subsequent pneumonitis.

Hazardous Component(s)	LD50s and LC50s
Molybdenum disulphide	None
1,2,4-Trimethylbenzene	Oral LD50 (Rat) = 6.0 g/kg Dermal LD50 (Rabbit) = > 3,160 mg/kg
Graphite	Inhalation LC50 (Rat, 4 h) = > 2,000 mg/m3 Inhalation LC50 (Rat, 4 h) = > 2,000 mg/m3
Mesitylene	Inhalation LC50 (Rat, 4 h) = 24,000 mg/m3 Inhalation LC50 (Rat, 4 h) = 10,200 mg/m3
propylbenzene	Oral LD50 (Rat) = 6,040 mg/kg
Toluene	Oral LD50 (Rat) = 2.6 g/kg Dermal LD50 (Rabbit) = 12,124 mg/kg Inhalation LC50 (Rat, 4 h) = 12.5 - 28.8 mg/l Inhalation LC50 (Rat, 4 h) = 25.7 mg/l Inhalation LC50 (Rat, 4 h) = 28.1 mg/l Inhalation LC50 (Rat, 4 h) = 30 mg/l
Solvent naphtha (petroleum) C8-10 <0,1% benzene	Inhalation LC50 (Rat, 4 h) = > 5,610 mg/m3 Inhalation LC50 (Rat, 4 h) = > 7,630 mg/m3
Xylenes	Oral LD50 (Rat) = 6,670 mg/kg Oral LD50 (Rat) = 3,523 - 8,600 mg/kg Oral LD50 (Rat) = 4,300 mg/kg Dermal LD50 (Rabbit) = > 43 g/kg Inhalation LC50 (Rat, 4 h) = 6580 ppm Inhalation LC50 (Rat, 4 h) = 6247 ppm Inhalation LC50 (Rat, 4 h) = 5922 ppm Inhalation LC50 (Rat, 4 h) = 6700 ppm Inhalation LC50 (Rat, 4 h) = 6350 ppm
1,2,3-trimethylbenzene	None
Cumene	Oral LD50 (Rat) = 2.91 g/kg Oral LD50 (Rat) = 1,400 mg/kg
Ethylbenzene	Oral LD50 (Rat) = 5.46 g/kg Oral LD50 (Rat) = 3,500 mg/kg Dermal LD50 (Rabbit) = 17,800 mg/kg Inhalation LC50 (Rat, 4 h) = 4000 ppm

Hazardous Component(s)	Immediate Health Effects	Delayed Health Effects	Chronic Health Effects
Molybdenum disulphide			
1,2,4-Trimethylbenzene	Irritant		Central nervous system Respiratory
Graphite			Lung
Mesitylene	Irritant		Central nervous system Respiratory
propylbenzene	Irritant		Central nervous system Kidney Liver
Toluene	Irritant		Behavioral Cardiac Central nervous system Developmental Ear
Solvent naphtha (petroleum) C8-10 <0,1% benzene	Irritant		
Xylenes	Irritant		Cardiac Central nervous system Kidney Liver
1,2,3-trimethylbenzene	Irritant		Central nervous system Blood Lung
Cumene	Irritant		Central nervous system Lung
Ethylbenzene	Irritant		Central nervous system

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Molybdenum disulphide	No	No	No
1,2,4-Trimethylbenzene	No	No	No
Graphite	No	No	No
Mesitylene	No	No	No
propylbenzene	No	No	No
Toluene	No	No	No
Solvent naphtha (petroleum) C8-10 <0,1% benzene	No	No	No
Xylenes	No	No	No
1,2,3-trimethylbenzene	No	No	No
Cumene	Reasonably Anticipated to be a Human Carcinogen.	Group 2B	No
Ethylbenzene	No	Group 2B	No

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any packaging.

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

Proper shipping name: Paint
Hazard class or division: 3
Identification number: UN 1263
Packing group: III
DOT Hazardous Substance(s): Xylene (mixed), Toluene

International Air Transportation (ICAO/IATA)

Proper shipping name: Paint
Hazard class or division: 3
Identification number: UN 1263
Packing group: III
Exceptions: ID8000, (Not more than 500 ml), May Qualify as Consumer Commodity

Water Transportation (IMO/IMDG)

Proper shipping name: PAINT (1,2,4-Trimethylbenzene, Solvent Naphtha (Petroleum), Light Aromatic)
Hazard class or division: 3
Identification number: UN 1263
Packing group: III
Marine pollutant: 1,2,4-Trimethylbenzene, Solvent Naphtha (Petroleum), Light Aromatic
Exceptions: Limited quantity (Not more than 5 kg).

15. REGULATORY INFORMATION

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.

TSCA 12 (b) Export Notification: None above reporting de minimis

CERCLA/SARA Section 302 EHS: None above reporting de minimis.

CERCLA/SARA Section 311/312: Please refer to the GHS classification in Section 2

CERCLA/SARA Section 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). 1,2,4-Trimethylbenzene (CAS# 95-63-6). Toluene (CAS# 108-88-3). Xylenes (CAS# 1330-20-7). Cumene (CAS# 98-82-8). Ethylbenzene (CAS# 100-41-4).

CERCLA Reportable quantity: propylbenzene (CAS# 103-65-1) 100 lbs. (45.4 kg)
Toluene (CAS# 108-88-3) 1,000 lbs. (454 kg)
Solvent naphtha (petroleum) C8-10 <0,1% benzene (CAS# 64742-95-6) 100 lbs. (45.4 kg)
Xylenes (CAS# 1330-20-7) 100 lbs. (45.4 kg)

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/NDL Status:

All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 2,3,5,8,9,10,11,13,15

Prepared by: Product Safety and Regulatory Affairs

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