

Revision Number: 006.0 Issue date: 08/07/2014

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:Moly Dry Film LubricantIDH number:226675Product type:LubricantItem number:39895Restriction of Use:None identifiedRegion:United States

Company address:
Henkel Corporation

One Henkel Way Rocky Hill, Connecticut 06067 Telephone: (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

Internet: www.henkelna.com

**Contact information:** 

### 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
WARNING: CONTENTS UNDER PRESSURE.

FLAMMABLE AEROSOL. CAUSES SKIN IRRITATION.

CAUSES SERIOUS EYE IRRITATION.
MAY CAUSE DROWSINESS OR DIZZINESS.

 HAZARD CLASS
 HAZARD CATEGORY

 FLAMMABLE AEROSOL.
 2

 SKIN IRRITATION
 2

 EYE IRRITATION
 2A

 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE
 3

## PICTOGRAM(S)



#### **Precautionary Statements**

Prevention: Keep away from heat, sparks, open flames, hot surfaces - no smoking. Do not spray on an open

flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid breathing mist or spray. Wash thoroughly after handling. Use only outdoors or in a well-

ventilated area. Wear eye and face protection. Wear protective gloves.

Response: IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and

keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. Call a poison control center or physician if you feel unwell. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical

attention. Take off contaminated clothing.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from

sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal: Dispose of contents and/or container according to Federal, State/Provincial and local

governmental regulations.

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	Percentage*	
Acetone	67-64-1	30 - 60	
Methyl ethyl ketone	78-93-3	10 - 30	
Butane	106-97-8	10 - 30	
Propane	74-98-6	10 - 30	
1,2,4-Trimethylbenzene	95-63-6	1 - 5	
Solvent naphtha (petroleum), light arom.	64742-95-6	1 - 5	
Graphite	7782-42-5	1 - 5	
Cumene	98-82-8	0.1 - 1	

<sup>\*</sup> Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections

### 4. FIRST AID MEASURES

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:** Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention.

Ingestion: Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting. Never

give anything by mouth to an unconscious person. Get immediate medical

attention.

Symptoms: See Section 11.

### 5. FIRE FIGHTING MEASURES

Extinguishing media: Carbon dioxide, foam, powder

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as

turn-out gear. In case of fire, keep containers cool with water spray.

Unusual fire or explosion hazards: Cool aerosol containers with jet of water. Containers may explode. Do not

handle or store near an open flame, heat or other sources of ignition.

**Hazardous combustion products:** Oxides of carbon, oxides of nitrogen, irritating organic vapors.

### 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. For small spills wipe up with paper towel and

place in container for disposal. For large spills absorb onto inert absorbent

material and place in sealed container for disposal.

### 7. HANDLING AND STORAGE

**Handling:** Use only in well-ventilated areas. Prevent contact with eyes, skin and clothing.

Do not breathe vapor and mist. Wash thoroughly after handling. Remove all sources of ignition. Keep away from heat, spark and flame. 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 contact Henkel Customer Service at (800) 243-4874.

### 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
Acetone	750 ppm STEL 500 ppm TWA	1,000 ppm (2,400 mg/m3) PEL	None	None
Methyl ethyl ketone	200 ppm TWA 300 ppm STEL	200 ppm (590 mg/m3) PEL	None	None
Butane	1,000 ppm STEL	None	None	None
Propane	Included in the regulation but with no data values. See regulation for further details	1,000 ppm (1,800 mg/m3) PEL	None	None
1,2,4-Trimethylbenzene	25 ppm TWA	None	None	None
Solvent naphtha (petroleum), light arom.	None	None	None	50 ppm
Graphite	2 mg/m3 TWA Respirable fraction.	5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust. 15 MPPCF TWA	None	None
Cumene	50 ppm TWA	50 ppm (245 mg/m3) PEL (SKIN)	None	None

Engineering controls: Provide adequate local exhaust ventilation to maintain worker exposure below

exposure limits.

Respiratory protection: Use a NIOSH approved air-purifying respirator with an organic vapor cartridge.

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: Aerosol, liquid Color: Dark grey Odor: Solvent Odor threshold: Not available. pH: Not available. Vapor pressure: Not available. Boiling point/range: Not available. Melting point/ range: Not available. Vapor density: Not available.

Flash point: -42.00 °C (-43.6 °F); Estimated

Flashback: This product exhibits flashback when tested for flame extension.

Flammable/Explosive limits - lower: Not available.

Flammable/Explosive limits - upper: Not available. Not available. Autoignition temperature: Evaporation rate: Not available. Solubility in water: Not available. Partition coefficient (n-octanol/water): Not available. **VOC** content: 47.92 % (calculated) Viscosity: Not available. **Decomposition temperature:** Not available.

## 10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: Will not occur.

Hazardous decomposition

products:

Oxides of carbon.

Incompatible materials: Acids and bases. Oxidizing agents. Heat.

Reactivity: Not available.

Conditions to avoid: Heat, flames, sparks and other sources of ignition.

## 11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

IDH number: 226675 Product name: Moly Dry Film Lubricant

#### **Potential Health Effects/Symptoms**

Inhalation:

Inhalation of vapors or mists of the product may be irritating to the respiratory system. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or

Skin contact: Causes skin irritation. May be harmful if absorbed through skin. Solvent action can dry and

defat the skin, causing the skin to crack, leading to dermatitis.

Causes serious eye irritation. Eye contact: Ingestion: May be harmful if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects	
Acetone	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, 8 h) = 50.1 mg/l Inhalation LC50 (RAT, 4 h) = 76 mg/l	Blood, Central nervous system, Irritant, Reproductive	
Methyl ethyl ketone	Oral LD50 (RAT) = 2,300 - 3,500 mg/kg Oral LD50 (RAT) = 4,500 - 6,800 mg/kg Dermal LD50 (RABBIT) = > 8,000 mg/kg Inhalation LC50 (RAT, 4 h) = 11700 ppm	Irritant, Central nervous system	
Butane	Inhalation LC50 (RAT, 4 h) = 658 mg/l	Cardiac, Central nervous system, Irritant	
Propane	Inhalation LC50 (RAT, 15 min) = > 1,442.847 mg/l Inhalation LC50 (RAT, 15 min) = > 1,464 mg/l	Cardiac, Central nervous system, Irritant	
1,2,4-Trimethylbenzene	Oral LD50 (RAT) = 6.0 g/kg Dermal LD50 (RABBIT) = > 3,160 mg/kg Inhalation LC50 (RAT, 48 h) = > 2000 ppm	Central nervous system, Irritant, Respiratory	
Solvent naphtha (petroleum), light arom.	None	Irritant	
Graphite	None	Lung	
Cumene	Oral LD50 (RAT) = 2.91 g/kg Oral LD50 (RAT) = 1,400 mg/kg Inhalation LC50 (RAT, 4 h) = 8000 ppm	Central nervous system, Irritant, Lung	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Acetone	No	No	No
Methyl ethyl ketone	No	No	No
Butane	No	No	No
Propane	No	No	No
1,2,4-Trimethylbenzene	No	No	No
Solvent naphtha (petroleum), light arom.	No	No	No
Graphite	No	No	No
Cumene	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.

Hazardous waste number: D001: Ignitable.

#### 14. TRANSPORT INFORMATION

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

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

Proper shipping name: Aerosols, flammable

Hazard class or division: Identification number: UN 1950 Packing group: None

DOT Hazardous Substance(s): Acetone, Methyl ethyl ketone

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** Hazard class or division: 2.1 Identification number: UN 1950 Packing group: None

### **REGULATORY INFORMATION**

**United States Regulatory Information** 

CERCLA/SARA Section 311/312:

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 minimis

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

Immediate Health, Delayed Health, Fire, Pressure 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). Methyl ethyl ketone (CAS# 78-93-3). 1,2,4-Trimethylbenzene (CAS# 95-63-6).

**CERCLA Reportable quantity:** Acetone (CAS# 67-64-1) 5,000 lbs. (2,270 kg)

Methyl ethyl ketone (CAS# 78-93-3) 5,000 lbs. (2,270 kg)

Butane (CAS# 106-97-8) 100 lbs. (45.4 kg) Propane (CAS# 74-98-6) 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/NDSL 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: New Safety Data Sheet format.

Prepared by: Catherine Bimler, Regulatory Affairs Specialist

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