MATERIAL SAFETY DATA SHEET
LUBE-A-BOOM DRY FILM LUBRICANT (AEROSOL)

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME
LUBE-A-BOOM DRY FILM LUBRICANT (AEROSOL)

PART No.
010106

MANUFACTURER
Chemtool Incorporated
P.O. Box 538
8200 Ridgefield Road
Crystal Lake, IL 60039-0538 USA
Tel: (815) 459-1250
Fax: (815) 459-1955

SUPPLIER
LAB, LLC
PO Box 20798
Indianapolis, IN 46220
Email: sales@lubeaboom.com
Fax: (317) 577-0637

EMERGENCY TELEPHONE
Infotrac
U.S. and Canada - (800) 535-5053
Outside the U.S. and Canada - +01-352-323-3500

Date of last issue
2009-10-27

2. COMPOSITION AND INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT NAME</th>
<th>CAS No.</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>*ACETONE</td>
<td>67-64-1</td>
<td>30-50 %</td>
</tr>
<tr>
<td>*BUTANONE, 2- (COMMON NAME: METHYL ETHYL KETONE)</td>
<td>78-93-3</td>
<td>10-30 %</td>
</tr>
<tr>
<td>*PROPANOL, 2- (COMMON NAME: ISOPROPYL ALCOHOL)</td>
<td>67-63-0</td>
<td>5-15 %</td>
</tr>
<tr>
<td>*BUTANE</td>
<td>106-97-8</td>
<td>5-15 %</td>
</tr>
<tr>
<td>*PROPANE</td>
<td>74-98-6</td>
<td>5-15 %</td>
</tr>
<tr>
<td>*MOLYBDENUM SULFIDE (MoS2)</td>
<td>1317-33-5</td>
<td>1-3 %</td>
</tr>
</tbody>
</table>

* This chemical(s) is hazardous according to OSHA/WHIMIS criteria

COMPOSITION COMMENTS
Refer to section eight for exposure limits on ingredients.
Chemical ingredients not regulated by OSHA or SARA are treated confidentially.

3. HAZARDS IDENTIFICATION
EMERGENCY OVERVIEW

Extremely flammable liquid or liquefied gas. Irritating to eyes. Harmful by inhalation.

HEALTH HAZARDS, GENERAL
Harmful by inhalation, in contact with skin, and if swallowed. Irritating to eyes.

SENSITIZATION
No known information.

CARCINOGENICITY
IARC: Not listed as a Group 1, 2A, or 2B agent. NTP: Not listed. OSHA: Not regulated.

HEALTH WARNINGS
INHALATION. The solvent vapors can be harmful and cause headache, nausea and intoxication. Larger quantities can cause unconsciousness, breathing difficulty and heart failure. SKIN CONTACT. Irritating. Repeated or prolonged contact can result in drying of the skin. EYE CONTACT. Strongly irritating. INGESTION. Dangerous by ingestion.

ROUTE OF ENTRY
Inhalation. Skin and/or eye contact. Ingestion. Skin absorption.

4. FIRST AID MEASURES

INHALATION
Remove victim immediately from source of exposure. Move the exposed person to fresh air at once. For breathing difficulties oxygen may be necessary. If breathing stops, provide artificial respiration. Get medical attention.

EYES
Rinse the eye with water immediately. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

SKIN
Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

INGESTION
DO NOT INDUCE VOMITING! Get medical attention immediately!

5. FIRE FIGHTING MEASURES

FLASH POINT (°C)  
-104 (-156 F)

FLAMMABILITY LIMIT - LOWER(%)  
1.8

FLAMMABILITY LIMIT - UPPER(%)  
13

EXTINGUISHING MEDIA
Use: Foam. Carbon dioxide (CO2). Dry chemicals, sand, dolomite etc.

SPECIAL FIRE FIGHTING PROCEDURES
Use water to keep fire exposed containers cool and disperse vapors. Water spray may be used to flush spills away from exposures and dilute spills to non-flammable mixtures. Avoid water in straight hose stream; will scatter and spread fire. Keep run-off water out of sewers and water sources. Dike for water control. Use special protective clothing. Regular protection may not be safe. Prevent inhalation of fumes and gases.

UNUSUAL FIRE & EXPLOSION HAZARDS
Volume and pressure increases strongly when heated. Risk of container explosion in fire.

HAZARDOUS COMBUSTION PRODUCTS

PROTECTIVE MEASURES IN CASE OF FIRE
Self-contained breathing equipment and chemical resistant clothing recommended.
6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS
Minimize skin contact. Avoid breathing vapors. Wear an appropriate respirator if exposure exceeds recommended guidelines. Remove sources of ignition.

PRECAUTIONS TO PROTECT THE ENVIRONMENT
Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with applicable government regulations.

SPILL CLEAN-UP PROCEDURES
Carefully collect spilled material in closed containers and leave for disposal according to local regulations. Provide good ventilation. Rinse area with water. Do not let washing down water contaminate ponds or waterways.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS
Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Containers to be kept tightly closed. Eye wash and emergency shower must be available at the work place.

STORAGE PRECAUTIONS
Keep away from heat, sparks and open flame. Store separated from: Acids. Oxidizing materials. Store at temperature below 122°F.

STORAGE CRITERIA
Flammable compressed gas storage.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>STD</th>
<th>TWA</th>
<th>STEL</th>
<th>TWA</th>
<th>STEL</th>
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</thead>
<tbody>
<tr>
<td>ACETONE</td>
<td>OSHA</td>
<td>1000 ppm</td>
<td>N/E</td>
<td>2400 mg/m³</td>
<td>N/E</td>
</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td>500 ppm</td>
<td>750 ppm</td>
<td>1188 mg/m³</td>
<td>1782 mg/m³</td>
</tr>
<tr>
<td></td>
<td>NIOSH</td>
<td>250 ppm</td>
<td>N/E</td>
<td>N/E</td>
<td></td>
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<tr>
<td>BUTANONE, 2- (COMMON NAME: METHYL ETHYL KETONE)</td>
<td>OSHA</td>
<td>200 ppm</td>
<td>N/E</td>
<td>590 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td>200 ppm</td>
<td>300 ppm</td>
<td>590 mg/m³</td>
<td>885 mg/m³</td>
</tr>
<tr>
<td></td>
<td>MAK.</td>
<td>200 ppm (skin)</td>
<td>N/E</td>
<td>980 mg/m³</td>
<td>N/E</td>
</tr>
<tr>
<td>PROPAOL, 2- (COMMON NAME: ISOPROPYL ALCOHOL)</td>
<td>OSHA</td>
<td>400 ppm</td>
<td>N/E</td>
<td>984 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td>200 ppm **A4</td>
<td>400 ppm</td>
<td>492 mg/m³</td>
<td>984 mg/m³</td>
</tr>
<tr>
<td></td>
<td>*MAK.</td>
<td>400 ppm</td>
<td>500 ppm</td>
<td>N/E</td>
<td></td>
</tr>
<tr>
<td>BUTANE</td>
<td>OSHA</td>
<td>800 ppm</td>
<td>N/E</td>
<td>N/E</td>
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<tr>
<td></td>
<td>ACGIH</td>
<td>800 ppm</td>
<td>N/E</td>
<td>N/E</td>
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</tr>
<tr>
<td>PROPANE</td>
<td>OSHA</td>
<td>1000 ppm</td>
<td>N/E</td>
<td>N/E</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td>1000 ppm</td>
<td>(C1-C4 Alkanes)</td>
<td>N/E</td>
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</tr>
<tr>
<td>MOLYBDENUM SULFIDE (MoS2)</td>
<td>OSHA</td>
<td>3 mg/m³ (resp) as Mo</td>
<td>N/E</td>
<td>10 mg/m³ (ihl) as Mo</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td>N/E</td>
<td>N/E</td>
<td>N/E</td>
<td></td>
</tr>
</tbody>
</table>

PROTECTIVE EQUIPMENT

3/8
ENGINEERING CONTROLS
Use engineering controls to reduce air contamination to permissible exposure level.

VENTILATION
No specific ventilation requirements noted, but forced ventilation may still be required if air contamination exceeds acceptable level.

RESPIRATORS
No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

PROTECTIVE GLOVES
For prolonged or repeated skin contact use suitable protective gloves.

EYE PROTECTION
Wear splash-proof eye goggles to prevent any possibility of eye contact.

PROTECTIVE CLOTHING
Wear appropriate clothing to prevent repeated or prolonged skin contact.

HYGIENIC WORK PRACTICES
Wash at the end of each work shift and before eating, smoking and using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE
Aerosol.

COLOR
Black.

ODOR
Mild (or faint). Solvent.

SOLUBILITY DESCRIPTION
Slightly soluble in water.

BOILING POINT (°C, range)
-42 (-44 F) - 81 (177 F)  
Pressure   760mmHg

DENSITY
0.73

TEMPERATURE (°C)
15.6 (60°F)

VAPOR DENSITY (air=1)
> 1

pH-VALUE, CONC. SOLUTION
N/A

10. STABILITY AND REACTIVITY

STABILITY
Normally stable.

CONDITIONS TO AVOID
Avoid contact with acids and oxidizing substances. Avoid heat, flames and other sources of ignition.

HAZARDOUS POLYMERIZATION
Will not polymerize.

HAZARDOUS DECOMPOSITION PRODUCTS

11. TOXICOLOGICAL INFORMATION
TOXICOLOGICAL INFORMATION

No experimental toxicological data on the preparation as such is available.

COMPONENT: ACETONE

TOXICOLOGICAL DATA
Irritating effects. WHMIS (Canada) Eye. D2B - R36

TOXIC DOSE - LD 50
5800 mg/kg (oral rat)

TOXIC DOSE - LD 50
20000 mg/kg (oral rat)

TOXIC DOSE - LD 50 SKIN
2400 mg/kg (skn rbt)

TOXIC CONC. - LC 50
120 mg/l (inh-rat)

COMPONENT: BUTANONE, 2- (COMMON NAME: METHYL ETHYL KETONE)

TOXICOLOGICAL DATA
Reproductive effects. WHMIS (Canada) D2A - R61
Irritating effects. WHMIS (Canada) Eye. D2B - R36

TOXIC DOSE - LD 50
3400 mg/kg (oral rat)

TOXIC CONC. - LC 50
2000 mg/l/4h (inh-rat)

REPRODUCTION TOXICITY
Methyl ethyl ketone is embryotic and/or fetotoxic in animal. MEK detected in maternal milk in human. Embryo or Fetus: death inh-rat TCLo = 1000ppm - Developmental Abnormalities: inh-rat TCLo = 3000ppm/6H - Musculoskeletal abnormalities inh-rat TCLo = 1000ppm.

COMPONENT: PROPAHOL, 2- (COMMON NAME: ISOPROPYL ALCOHOL)

TOXICOLOGICAL DATA
Irritating effects. WHMIS (Canada) D2B

TOXIC DOSE - LD 50
5840 mg/kg (oral rat)

TOXIC DOSE - LD 50 SKIN
12800 mg/kg (skn rbt)

TOXIC CONC. - LC 50
32000 ppm/4h (inh-rat)

CARCINOGENICITY
OSHA: Not regulated. NTP: Not listed. IARC-3 designation: Not classifiable as to Carcinogenicity to Humans.

COMPONENT: BUTANE

TOXIC DOSE - LD 50
No Information Available (NIA).

TOXIC CONC. - LC 50
680 mg/m3/2h (inh-mus)

COMPONENT: PROPANE

TOXIC DOSE - LD 50
1000 mg/kg (oral rat)

TOXIC DOSE - LD 50 SKIN
1800 mg/kg (skn rbt)

TOXIC CONC. - LC 50
No Information Available (NIA).

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION

No data on possible environmental effects have been found.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS
Spilled material, unused contents and empty containers must be disposed of in accordance with local, state and federal regulations.

WASTE CLASSIFICATION
D001 Ignitible.
14. TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME  Consumer commodity
DOT HAZARD CLASS  ORM-D (Other Regulated Material D).
LABEL FOR TRANSPORT

TDGR SHIPPING NAME  Consumer Commodity - bien de consommation
TDGR CLASS  Not Regulated.
UN No. SEA  UN1950
IMDG CLASS  2
IMDG PACK GR.  N/A
SEA TRANSPORT NOTES  Aerosols
UN No., AIR  UN1950
ICAO CLASS  2.1
AIR PACK GR.  N/A
AIR TRANSPORT NOTES  Aerosols, flammable

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>SARA 302</th>
<th>CERCLA</th>
<th>SARA 313</th>
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<tbody>
<tr>
<td>ACETONE</td>
<td>No</td>
<td>5 000 lbs</td>
<td>No</td>
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<tr>
<td>BUTANONE, 2- (COMMON NAME: METHYL ETHYL KETONE)</td>
<td>No</td>
<td>5 000 lbs</td>
<td>Yes</td>
</tr>
<tr>
<td>PROPOXOOL, 2- (COMMON NAME: ISOPROPYL ALCOHOL)</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>BUTANE</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>PROPANE</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>MOLYBDENUM SULFIDE (MoS2)</td>
<td>No</td>
<td>No</td>
<td>No</td>
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</table>

See Section 2 for Additional Information

CLEAN AIR ACT

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>CAA Accidental Release Prevention</th>
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<tr>
<td>BUTANE</td>
<td>10 000 lbs</td>
</tr>
<tr>
<td>PROPANE</td>
<td>10 000 lbs</td>
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</table>
SARA HAZARD CATEGORIES

Acute Chronic Fire

US STATE REGULATIONS

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<th>COMPONENT</th>
<th>CA</th>
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<th>MN</th>
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<th>PA</th>
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<tbody>
<tr>
<td>ACETONE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>EH</td>
</tr>
<tr>
<td>BUTANONE, 2- (COMMON NAME: METHYL ETHYL KETONE)</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>EH</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>PROPANOL, 2- (COMMON NAME: ISOPROPYL ALCOHOL)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>MOLYBDENUM SULFIDE (MoS2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Yes</td>
</tr>
</tbody>
</table>

STATE REGULATORY STATUS

CALIFORNIA PROPOSITION 65: This product ***DOES NOT*** contain chemicals considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer or reproductive toxicity, and for which warnings are now required.

PENNSYLVANIA RIGHT-TO-KNOW: This product contains the following chemicals that the state of Pennsylvania has identified as Special Hazardous Substances (SHS), Environmental Hazards (EH), or both (ESHES). The PA regulations require that the MSDS identify all SHS or EH chemicals by chemical name, common name, and CAS Number if they comprise 0.01% or more.

Propanol, 2-, Environmental Hazard, CAS# 67-63-0
2-Butanone, Environmental Hazard, CAS# 78-93-3

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHMIS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

LABEL(S) FOR SUPPLY

CONTROLLED PRODUCT CLASSIFICATION

B5 - Flammable Aerosols
D2A - Chronic Very Toxic Material
D2B - Chronic Toxic Material

Risk phrases

R-12 Extremely flammable.
R-20 Harmful by inhalation.
R-36 Irritating to eyes.
R-61 May cause harm to the unborn child.

GLOBAL INVENTORIES

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>CAN</th>
<th>US</th>
<th>EU</th>
<th>AUS</th>
<th>JAP</th>
<th>KOR</th>
<th>PHLP</th>
<th>CHN</th>
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</thead>
<tbody>
<tr>
<td>PROPANOL, 2- (COMMON NAME: ISOPROPYL ALCOHOL)</td>
<td>DSL</td>
<td>Yes</td>
<td>EINECS</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>BUTANE</td>
<td>DSL</td>
<td>Yes</td>
<td>EINECS</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>PROPANE</td>
<td>DSL</td>
<td>Yes</td>
<td>EINECS</td>
<td>Yes</td>
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<td>Yes</td>
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<tr>
<td>MOLYBDENUM SULFIDE (MoS2)</td>
<td>DSL</td>
<td>Yes</td>
<td>EINECS</td>
<td>Yes</td>
<td>PRTR1</td>
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<td>DSL</td>
<td>Yes</td>
<td>EINECS</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>ACETONE</td>
<td>DSL</td>
<td>Yes</td>
<td>EINECS</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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</tbody>
</table>
CANADA CEPA: All components of this product comply with new substance notification requirements under the Canadian Environmental Protection Act (CEPA).

16. OTHER INFORMATION

**NFPA-HMIS HAZARD RATING**

**HEALTH**
Temporary incapacitation, injury (2) - HMIS/NFPA

**FLAMMABILITY**
Extremely flammable (4) - HMIS/NFPA

**REACTIVITY**
Unstable if heated (1) - HMIS/NFPA

**PERSONAL PROTECTION INDEX**
B - Safety Eyewear and Gloves

**REVISION COMMENTS**
Section 11: Toxicological Information
Section 15: WHMIS

**PREPARED BY**
Regulatory Department Staff

Replacement of MSDS generated 2006-06-30

**DATE**
2009-10-27

**DISCLAIMER**
While the information and recommendations set forth herein are believed to be accurate as of the date thereof, the company makes no warranty with respect thereto and disclaims all liability from reliance therein.

* Information revised since previous MSDS version

**PRINTING DATE:**
2009-10-27