



# MATERIAL SAFETY DATA SHEET

## LUBE-A-BOOM DRY FILM LUBRICANT (AEROSOL)

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### 1. PRODUCT AND COMPANY IDENTIFICATION

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

**PART No.** 010106

**MANUFACTURER** Chemtool Incorporated  
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8200 Ridgefield Road  
Crystal Lake, IL 60039-0538 USA  
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**EMERGENCY TELEPHONE** Infotrac  
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**Date of last issue** 2009-10-27

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### 2. COMPOSITION AND INFORMATION ON INGREDIENTS

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

\* 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.

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### 3. HAZARDS IDENTIFICATION

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**EMERGENCY OVERVIEW**

	Extremely flammable liquid or liquefied gas. Irritating to eyes. Harmful by inhalation.
<b>HEALTH HAZARDS, GENERAL</b>	Harmful by inhalation, in contact with skin, and if swallowed. Irritating to eyes.
<b>SENSITIZATION</b>	No known information.
<b>CARCINOGENICITY</b>	IARC: Not listed as a Group 1, 2A, or 2B agent. NTP: Not listed. OSHA: Not regulated.
<b>HEALTH WARNINGS</b>	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.
<b>ROUTE OF ENTRY</b>	Inhalation. Skin and/or eye contact. Ingestion. Skin absorption.

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**4. FIRST AID MEASURES**

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<b>INHALATION</b>	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.
<b>EYES</b>	Rinse the eye with water immediately. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.
<b>SKIN</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
<b>INGESTION</b>	DO NOT INDUCE VOMITING! Get medical attention immediately!

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**5. FIRE FIGHTING MEASURES**

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<b>FLASH POINT (°C)</b>	-104 (-156 F)
<b>FLAMMABILITY LIMIT - LOWER(%)</b>	1.8
<b>FLAMMABILITY LIMIT - UPPER(%)</b>	13
<b>EXTINGUISHING MEDIA</b>	Use: Foam. Carbon dioxide (CO2). Dry chemicals, sand, dolomite etc.
<b>SPECIAL FIRE FIGHTING PROCEDURES</b>	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.
<b>UNUSUAL FIRE &amp; EXPLOSION HAZARDS</b>	Volume and pressure increases strongly when heated. Risk of container explosion in fire.
<b>HAZARDOUS COMBUSTION PRODUCTS</b>	Acrid smoke/fumes. Oxides of: Carbon. Sulfur.
<b>PROTECTIVE MEASURES IN CASE OF FIRE</b>	Self-contained breathing equipment and chemical resistant clothing recommended.

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## 6. ACCIDENTAL RELEASE MEASURES

<b>PERSONAL PRECAUTIONS</b>	Minimize skin contact. Avoid breathing vapors. Wear an appropriate respirator if exposure exceeds recommended guidelines. Remove sources of ignition.
<b>PRECAUTIONS TO PROTECT THE ENVIRONMENT</b>	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.
<b>SPILL CLEAN-UP PROCEDURES</b>	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

<b>HANDLING PRECAUTIONS</b>	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.
<b>STORAGE PRECAUTIONS</b>	Keep away from heat, sparks and open flame. Store separated from: Acids. Oxidizing materials. Store at temperature below 122°F.
<b>STORAGE CRITERIA</b>	Flammable compressed gas storage.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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

### PROTECTIVE EQUIPMENT



<b>ENGINEERING CONTROLS</b>	Use engineering controls to reduce air contamination to permissible exposure level.
<b>VENTILATION</b>	No specific ventilation requirements noted, but forced ventilation may still be required if air contamination exceeds acceptable level.
<b>RESPIRATORS</b>	No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.
<b>PROTECTIVE GLOVES</b>	For prolonged or repeated skin contact use suitable protective gloves.
<b>EYE PROTECTION</b>	Wear splash-proof eye goggles to prevent any possibility of eye contact.
<b>PROTECTIVE CLOTHING</b>	Wear appropriate clothing to prevent repeated or prolonged skin contact.
<b>HYGIENIC WORK PRACTICES</b>	Wash at the end of each work shift and before eating, smoking and using the toilet.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>APPEARANCE/PHYSICAL STATE</b>	Aerosol.		
<b>COLOR</b>	Black.		
<b>ODOR</b>	Mild (or faint). Solvent.		
<b>SOLUBILITY DESCRIPTION</b>	Slightly soluble in water.		
<b>BOILING POINT (°C, range)</b>	-42 (-44 F) - 81 (177 F)	<b>Pressure</b>	760mmHg
<b>DENSITY</b>	0.73	<b>Temperature (°C)</b>	15.6 (60°F)
<b>VAPOR DENSITY (air=1)</b>	> 1		
<b>pH-VALUE, CONC. SOLUTION</b>	N/A		

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## 10. STABILITY AND REACTIVITY

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<b>STABILITY</b>	Normally stable.
<b>CONDITIONS TO AVOID</b>	Avoid contact with acids and oxidizing substances. Avoid heat, flames and other sources of ignition.
<b>HAZARDOUS POLYMERIZATION</b>	Will not polymerize.
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	Oxides of: Carbon. Sulfur.

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## 11. TOXICOLOGICAL INFORMATION

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**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 ihl-rat TCLo=1000ppm - Developmental Abnormalities: ihl-rat TCLo=3000ppm/6H - Musculoskeletal abnormalities ihl-rat TCLo= 1000ppm.

**COMPONENT** **PROPANOL, 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/m<sup>3</sup>/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).

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## 12. ECOLOGICAL INFORMATION

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**ECOLOGICAL INFORMATION** No data on possible environmental effects have been found.

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## 13. DISPOSAL CONSIDERATIONS

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

**WASTE CLASSIFICATION** D001 Ignitable.

## 14. TRANSPORT INFORMATION

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**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

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### US FEDERAL REGULATIONS

COMPONENT	SARA 302	CERCLA	SARA 313
ACETONE	No	5 000 lbs	No
BUTANONE, 2- (COMMON NAME: METHYL ETHYL KETONE)	No	5 000 lbs	Yes
PROPANOL, 2- (COMMON NAME: ISOPROPYL ALCOHOL)	No	No	Yes
BUTANE	No	No	No
PROPANE	No	No	No
MOLYBDENUM SULFIDE (MoS2)	No	No	No

See Section 2 for Additional Information

### CLEAN AIR ACT

COMPONENT	CAA Accidental Release Prevention
BUTANE	10 000 lbs
PROPANE	10 000 lbs

**SARA HAZARD CATEGORIES**

Acute Chronic Fire

**US STATE REGULATIONS**

COMPONENT	CA	MA	FL	MN	NJ	PA	RI
ACETONE						EH	
BUTANONE, 2- (COMMON NAME: METHYL ETHYL KETONE)						EH	
PROPANOL, 2- (COMMON NAME: ISOPROPYL ALCOHOL)	No		Yes		Yes	EH	
MOLYBDENUM SULFIDE (MoS2)					Yes		

**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 (ESHS). 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**

COMPONENT	CAN	US	EU	AUS	JAP	KOR	PHLP	CHN
PROPANOL, 2- (COMMON NAME: ISOPROPYL ALCOHOL)	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
BUTANE	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
PROPANE	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
MOLYBDENUM SULFIDE (MoS2)	DSL	Yes	EINECS	Yes	PRTR1	Yes	Yes	Yes
BUTANONE, 2- (COMMON NAME: METHYL ETHYL KETONE)	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
ACETONE	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes

CANADA CEPA: All components of this product comply with new substance notification requirements under the Canadian Environmental Protection Act (CEPA).

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## 16. OTHER INFORMATION

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### NFPA-HMIS HAZARD RATING

<b>HEALTH</b>	Temporary incapacitation, injury (2) - HMIS/NFPA
<b>FLAMMABILITY</b>	Extremely flammable (4) - HMIS/NFPA
<b>REACTIVITY</b>	Unstable if heated (1) - HMIS/NFPA
<b>PERSONAL PROTECTION INDEX</b>	B - Safety Eyewear and Gloves
<b>REVISION COMMENTS</b>	Section 11: Toxicological Information Section 15: WHMIS
<b>PREPARED BY</b>	Regulatory Department Staff
<b>Replacement of MSDS generated</b>	2006-06-30
<b>DATE</b>	2009-10-27
<b>DISCLAIMER</b>	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.
<b>* Information revised since previous MSDS version</b>	
<b>PRINTING DATE:</b>	2009-10-27