

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

U.S. and Canada - (800) 535-5053

Outside the U.S. and Canada - +01-352-323-3500

Date of last Issue

2006-06-30

2. COMPOSITION AND INFORMATION ON INGREDIENTS

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 (MoS2)	1317-33-5	1-3 %

* This chemical(s) is hazardous according to OSHAWHIMIS 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

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

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

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

Remove contaminated clothing, Wash skin thoroughly with soap and water. Get

medical attention if any discomfort continues.

DO NOT INDUCE VOMITING! Get medical attention immediately! INGESTION

5. FIRE FIGHTING MEASURES

-104 (-156 F) FLASH POINT (°C)

FLAMMABILITY LIMIT - LOWER(%) 18

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

HAZARDOUS COMBUSTION

PRODUCTS

Acrid smoke/fumes, Oxides of: Carbon, Sulfur,

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





6. ACCIDENTAL RELEASE MEASURES

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

PRECAUTIONS TO PROTECT THE

PERSONAL PRECAUTIONS

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

PROTECTIVE EQUIPMENT

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

COMPONENT ACETONE	STD OSHA	TWA 1000 ppm	STEL N/E	TWA 2400 mg/m3	STEL
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ACGIH	500 ppm	750 ppm	1188 ma/m3	1782 mg/m3
	NIOSH	250 ppm	N/E		·
BUTANONE, 2- (COMMON NAME: METHYL ETHY KETONE)	LOSHA	200 ppm		590 mg/m3	
	ACGIH	200 ppm	300 ррт	590 mg/m3	885 mg/m3
	MAK.	200 ppm (skin)			
PROPANOL, 2- (COMMON NAME: ISOPROPYL	OSHA	400 ppm	N/E	980 mg/m3	N/E
ALCOHOL)					
	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	Мо	10 mg/m3 (ihl) as t	Мо

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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.

No specific recommendation made, but respiratory protection may still be required RESPIRATORS

under exceptional circumstances when excessive air contamination exists.

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

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

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.

Black.

COLOR 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 > 1

N/A

Temperature (°C)

15.6 (60°F)

VAPOR DENSITY (air=1)

pH-VALUE, CONC. SOLUTION

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

Oxides of: Carbon, Sulfur,

PRODUCTS

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 TOXIC DOSE - LD 50 TOXIC DOSE - LD 50 SKIN

5800 mg/kg (oral rat) 20000 mg/kg (oral rat) 2400 mg/kg (skn rbt) 120 mg/i (inh-rat)

TOXIC CONC. - LC 50

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 TOXIC CONC. - LC 50 3400 mg/kg (oral rat) 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 inl-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 TOXIC DOSE - LD 50. TOXIC DOSE - LD 50 SKIN TOXIC CONC. - LC 50

Irritating effects, WHMIS (Canada) D2B 5840 mg/kg (oral rat) 12800 mg/kg (skn rbt)

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 TOXIC CONC. - LC 50

No Information Available (NIA). 680 mg/m3/2h (inh-mus)

COMPONENT

PROPANE

TOXIC DOSE-LD 50 TOXIC DOSE-LD 50 SKIN TOXIC CONC. - LC 50

1000 mg/kg (oral rat) 1800 mg/kg (skn rbt)

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.

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WASTE CLASSIFICATION

D001 lanitible.

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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 N/A

AIR PACK GR.

AIR TRANSPORT NOTES

Aerosols, flammable

15. REGULATORY INFORMATION

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 BUTANE PROPANE

CAA Accidental Release Prevention

10 000 lbs 10 000 lbs

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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						EH	
KETONE)							
PROPANOL, 2- (COMMON NAME: ISOPROPYL	No		Yes		Yes	EH	
ALCOHOL)							
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	DSL.	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
ALCOHOL)								
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	PRTR	l Yes	Yes	Yes
BUTANONE, 2- (COMMON NAME: METHYL ETHYL	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
KETONE)								
ACETONE	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes

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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: W

Section 15: WHMIS

Replacement of MSDS generated

John Dingess

DATE

PREPARED BY

2003-11-11

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:

2006-10-31

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