



MATERIAL SAFETY DATA SHEET

LUBE-A-BOOM AEROSOL

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME	LUBE-A-BOOM AEROSOL
PART No.	Chemtool, 841990, Lube-a-Boom, 010105
PRODUCT USE	Aerosol Lubricating Grease
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	2006-12-22

2. COMPOSITION AND INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS No.	WEIGHT
*HEPTANE	142-82-5	40-60 %
*PROPANE	74-98-6	10-20 %
1-DECENE, HOMOPOLYMER, HYDROGENATED (COMMON NAME: MEDIUM POLYALPHAOLEFINS)	68037-01-4	10-20 %
OVERBASED CALCIUM SULFONATE COMPLEX THICKENER	Proprietary	7-13 %
DISTILLATES, PETROLEUM, HEAVY (CAS# 64741-88-4, 64741-96-4, 64742-52-5, 64742-54-7)	Mixture	5-10 %
ETHENE, TETRAFLUORO-, HOMOPOLYMER (COMMON NAME: POLYTETRAFLUOROETHYLENE)	9002-84-0	0.5-1.5 %
*MOLYBDENUM SULFIDE (MoS ₂)	1317-33-5	0.2-1 %

* 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. Harmful, danger of serious damage to health by prolonged exposure through inhalation. Irritating to eyes, respiratory system and skin.

SENSITIZATION No known information.

CARCINOGENICITY OSHA: Not regulated. NTP: Not listed.

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. 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(%) 1.2

FLAMMABILITY LIMIT - UPPER(%) 9.5

EXTINGUISHING MEDIA Foam. Carbon dioxide (CO₂). Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

SPECIAL FIRE FIGHTING PROCEDURES Water may be ineffective but use to keep fire-exposed containers cool.

UNUSUAL FIRE & EXPLOSION HAZARDS Aerosol cans may explode in case of fire. May form explosive or toxic mixtures with air.

HAZARDOUS COMBUSTION PRODUCTS Irritating gases/vapors/fumes. Oxides of: Carbon. Sulfur.

PROTECTIVE MEASURES IN CASE OF FIRE Firefighters exposed to combustion gases/decomposition products should use a respiratory protective device.

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. Use appropriate protective clothing. Rinse area with water. Do not let washing down water contaminate ponds or waterways.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS Keep away from heat, sparks and open flame. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Avoid spilling, skin and eye contact. 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 at temperature below 122°F. Store separated from: Acids. Oxidizing materials.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

COMPONENT	STD	TWA	STEL	TWA	STEL
HEPTANE	OSHA	500 ppm	N/E	2000 mg/m ³	N/E
	ACGIH	400 ppm	500 ppm	1640 mg/m ³	2050 mg/m ³
	NIOSH	85 ppm	440 ppm (ceil)		
PROPANE	OSHA	1000 ppm			
	ACGIH	1000 ppm	(C1-C4 Alkanes)		
OVERBASED CALCIUM SULFONATE COMPLEX THICKENER	OSHA	15 mg/m ³ (total)	as CaCO ₃	5 mg/m ³ (resp)	as CaCO ₃
	ACGIH	1 mg/m ³ (inh)	NIC 2005	10 mg/m ³ *(e)	as CaCO ₃
DISTILLATES, PETROLEUM, HEAVY (CAS# 64741-88-4, 64741-96-4, 64742-52-5, 64742-54-7)	OSHA			5 mg/m ³ (oil mist)	
	ACGIH			5 mg/m ³ (oil mist)	10 mg/m ³ (oil mist)
MOLYBDENUM SULFIDE (MoS ₂)	OSHA			N/E	
	ACGIH	3 mg/m ³ (resp) as Mo		10 mg/m ³ (ih) as Mo	

PROTECTIVE EQUIPMENT



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	Chemical resistant gloves required for prolonged or repeated contact.
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.		
SOLUBILITY DESCRIPTION	Not water soluble.		
BOILING POINT (°C, range)	-42 (-44°F) - 98 (208°F)	Pressure	
SPECIFIC GRAVITY	0.73		
VAPOR DENSITY (air=1)	> 1		
EVAPORATION RATE	< 1	Reference	EtEt=1

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	Oxides of: Carbon. Chlorine. Hydrocarbons.

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION	No experimental toxicological data on the preparation as such is available.
COMPONENT	1-DECENE, HOMOPOLYMER, HYDROGENATED (COMMON NAME: MEDIUM

	POLYALPHAOLEFINS)
TOXIC DOSE - LD 50	> 2,000 mg/kg (oral rat)
TOXIC DOSE - LD 50 SKIN	> 2,000 mg/kg (skn rbt)
TOXIC CONC. - LC 50	> 5 mg/l

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS Dispose of in accordance with Local Authority requirements. Confirm disposal procedures with environmental engineer and local regulations.

WASTE CLASSIFICATION D001 Ignitable.

14. TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME Consumer commodity

DOT HAZARD CLASS ORM-D (Other Regulated Material D).

U.S. DOT HAZARD LABEL No DOT label requirement

UN No. SEA UN1950

IMDG CLASS 2.1

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

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS

COMPONENT	SARA 302	CERCLA	SARA 313
DISTILLATES, PETROLEUM, HEAVY (CAS# 64741-88-4, 64741-96-4, 64742-52-5, 64742-54-7)	No	No	No

ETHENE, TETRAFLUORO-, HOMOPOLYMER (COMMON NAME: POLYTETRAFLUOROETHYLENE)	No	No	No
MOLYBDENUM SULFIDE (MoS2)	No	No	No
OVERBASED CALCIUM SULFONATE COMPLEX THICKENER	No	No	No
HEPTANE	No	No	No
PROPANE	No	No	No
1-DECENE, HOMOPOLYMER, HYDROGENATED (COMMON NAME: MEDIUM POLYALPHAOLEFINS)	No	No	No

CLEAN AIR ACT

COMPONENT	CAA Accidental Release Prevention
PROPANE	10 000 lbs

SARA HAZARD CATEGORIES Acute Chronic Fire

US STATE REGULATIONS

COMPONENT	CA	MA	FL	MN	NJ	PA	RI
MOLYBDENUM SULFIDE (MoS2)					Yes		

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
D2B - Irritating and/or Chronically Toxic Materials

Risk phrases R-12 Extremely flammable.
R-36/37/38 Irritating to eyes, respiratory system and skin.
R-48/20 Harmful, danger of serious damage to health by prolonged exposure through inhalation.

GLOBAL INVENTORIES

COMPONENT	CAN	US	EU	AUS	JAP	KOR	PHLP	CHN
HEPTANE	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
PROPANE	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
1-DECENE, HOMOPOLYMER, HYDROGENATED (COMMON NAME: MEDIUM POLYALPHAOLEFINS)	DSL	Yes	Polymer	Yes	Yes	Yes	Yes	Yes
OVERBASED CALCIUM SULFONATE COMPLEX THICKENER	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
DISTILLATES, PETROLEUM, HEAVY (CAS# 64741-88-4, 64741-96-4, 64742-52-5, 64742-54-7)	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes

ETHENE, TETRAFLUORO-, HOMOPOLYMER (COMMON NAME: POLYTETRAFLUOROETHYLENE)	DSL	Yes	Polymer	Yes	Yes	Yes	Yes	Yes
MOLYBDENUM SULFIDE (MoS2)	DSL	Yes	EINECS	Yes	PRTR1	Yes	Yes	Yes

COMPONENT
HEPTANE

TSCA 12(b) Export Notification
Yes

TSCA 12(b) NOTICE: This product contains one or more components that require reporting under TSCA Section 12(b) when exported. This product may be subject to US EPA requirements for annual or one-time export notification per country. Contact the Regulatory Compliance Manager for more information.
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	Normally Stable (0) - HMIS/NFPA
PERSONAL PROTECTION INDEX	B - Safety Eyewear and Gloves
REVISION COMMENTS	Section 2: Ingredients Section 15: WHMIS Section 15: US Regulatory Status. Section 15: Inventory Status
PREPARED BY	James W. Hermann
Replacement of MSDS generated	2004-03-26
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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

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