



MATERIAL SAFETY DATA SHEET

LUBE-A-GEAR (AEROSOL)

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME LUBE-A-GEAR (AEROSOL)

PART No. 010108

PRODUCT USE Gear Oil

MANUFACTURER Chemtool Incorporated
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Date of last issue 2006-11-06

2. COMPOSITION AND INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS No.	WEIGHT
PETROLEUM RESINS	64742-16-1	15-30 %
*ASPHALT (BITUMENS)	8052-42-4	15-30 %
RESIDUAL OILS, PETROLEUM, HIGHLY REFINED, 150 BRIGHT STOCK**(7)	Mixture	15-30 %
*PROPANE	74-98-6	10-20 %
*BUTANE	106-97-8	10-20 %
SEVERELY HYDROTREATED NORMAL PARAFFINS C5-C20	64771-72-8	7-13 %

* 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, SARA, state or federal agencies are treated confidentially.
**(7) The petroleum residual oils for this product can be a mixture of any of the

following highly refined petroleum streams:
CAS NO 64742-01-4, CAS NO 64742-57-0, CAS NO 64742-62-7, CAS NO 64742-65-0
and CAS NO 72623-83-7. Carcinogenicity: The petroleum base oils contained in this
product have been highly refined by a variety of processes including solvent extraction,
solvent dewaxing and/or hydrotreating to remove aromatics and improve performance
characteristics. None of the oils used are listed as a carcinogen by NTP, IARC, or
OSHA.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Extremely flammable liquefied gas. Contents under pressure. Prolonged exposure to
product mist or vapors may cause respiratory irritation. For further information, please
refer to section 11.

SENSITIZATION

No known information.

CARCINOGENICITY

See Section 11 for carcinogenicity data of ingredients.

TERATOGENICITY

No known information.

HEALTH WARNINGS

INHALATION. Inhalation of product vapor or mist may cause irritation of mucous
membranes in nasal passages and throat. Heating can generate vapors that may
cause respiratory irritation, nausea and headaches. Inhalation hazard at room
temperature is unlikely due to the low volatility of this product. SKIN CONTACT. Slightly
irritating. Repeated or prolonged contact can result in drying of the skin. EYE
CONTACT. Irritating. INGESTION. Can cause stomach ache and vomiting. Main
hazard, if ingested, is aspiration into the lungs and subsequent pneumonitis.

ROUTE OF ENTRY

Skin and/or eye contact. Ingestion. Inhalation.

4. FIRST AID MEASURES

INHALATION

Remove victim immediately from source of exposure. Get medical attention if any
discomfort continues. For breathing difficulties oxygen may be necessary. If breathing
stops, provide artificial respiration.

EYES

Important! Immediately rinse with water for at least 15 minutes. Get medical attention
if any discomfort continues.

SKIN

Immediately remove contaminated clothing. Wash skin thoroughly with soap and
water. Get medical attention if irritation persists after washing.

INGESTION

DO NOT induce vomiting. Get medical attention immediately.

5. FIRE FIGHTING MEASURES

FLASH POINT (°C) - 104 (-156 F) Estimated.

FLAMMABILITY LIMIT - LOWER(%) 1.9

FLAMMABILITY LIMIT - UPPER(%) 9.5

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

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. Keep run-off water out of sewers and water sources. Dike for water control. Avoid water in straight hose stream; will scatter and spread fire.
UNUSUAL FIRE & EXPLOSION HAZARDS	Pressure will increase in over heated, closed containers.
HAZARDOUS COMBUSTION PRODUCTS	Acrid smoke/fumes. Oxides of: Carbon.
PROTECTIVE MEASURES IN CASE OF FIRE	Self-contained breathing equipment and chemical resistant clothing recommended.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Minimize skin contact.
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	Keep all sources of ignition and hot metal surfaces away from spill. Avoid contact with eyes or skin. Place leaking containers in well ventilated area. If fire potential exists, blanket spill with foam or use water spray to disperse vapors. Contain spill to minimize contaminated area and facilitate salvage or disposal. To clean up spill, flush area sparingly with water or use absorbant material. Avoid discharge to natural water ways.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS	Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Do not reuse container. Keep lid closed when not in use. Do not store or mix with strong oxidizers. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Eye wash station should be available at the work place.
STORAGE PRECAUTIONS	Keep away from heat, sparks and open flame. Store separate from strong acids and oxidizers. Aerosol cans: Protect against direct sunlight and do not subject to temperatures over 122°F.
STORAGE CRITERIA	Chemical storage.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

COMPONENT	STD	TWA	STEL	TWA	STEL
PETROLEUM RESINS	OSHA			5 mg/m3 (oil mist)	
	ACGIH			5 mg/m3 (oil mist)	10 mg/m3 (oil mist)
ASPHALT (BITUMENS)	OSHA			N/E	
	ACGIH			0.5 mg/m3 (IHL)	**A4
	NIOSH	N/E	5 mg/m3 **Ca		
RESIDUAL OILS, PETROLEUM, HIGHLY REFINED, 150 BRIGHT STOCK**(7)	OSHA			5 mg/m3 (oil mist)	

	ACGIH		5 mg/m ³ (oil mist)	10 mg/m ³ (oil mist)
PROPANE	OSHA	1000 ppm		
	ACGIH	1000 ppm	(C1-C4 Alkanes)	
BUTANE	OSHA	800 ppm		
	ACGIH	800 ppm		

INGREDIENT COMMENTS

**ACGIH A4: Not Classifiable as a Human Carcinogen.
 **NIOSH Ca: Potential Occupational Carcinogen.

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

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	Brown.		
ODOR	Mild (or faint). Petroleum.		
SOLUBILITY DESCRIPTION	Insoluble in water.		
BOILING POINT (°C, range)	- 42 (-44 F) - -1 (31 F)	Pressure	760mmHg
DENSITY	0.83	Temperature (°C)	15.6 (60°F)
VAPOR DENSITY (air=1)	> 1		
EVAPORATION RATE	< 1	Reference	BuAc=1

10. STABILITY AND REACTIVITY

STABILITY Normally stable.

CONDITIONS TO AVOID	Avoid contact with acids and oxidizing substances.
HAZARDOUS POLYMERIZATION	Will not occur.
POLYMERIZATION DESCRIPTION	Not applicable
HAZARDOUS DECOMPOSITION PRODUCTS	Oxides of: Carbon.

11. TOXICOLOGICAL INFORMATION

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

COMPONENT**PETROLEUM RESINS**

TOXIC DOSE - LD 50
TOXIC CONC. - LC 50

No Information Available (NIA).
No Information Available (NIA).

COMPONENT**ASPHALT (BITUMENS)**

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

No Information Available (NIA).
No Information Available (NIA).
MAK-2 designation: Substances that are considered to be carcinogenic for man.
IARC-3 designation: Not classifiable as to Carcinogenicity to Humans. Asphalt contains polynuclear aromatic compounds that are considered carcinogens by NTP and IARC.

COMPONENT**RESIDUAL OILS, PETROLEUM, HIGHLY REFINED, 150 BRIGHT STOCK**(7)**

TOXICOLOGICAL DATA
TOXIC DOSE - LD 50
TOXIC DOSE - LD 50 SKIN
TOXIC CONC. - LC 50
CARCINOGENICITY

Corrosive effects. Draize Eye. Rabbit. 6-15
> 2000 mg/kg (oral rat)
> 2000 mg/kg (skn rbt)
> 5 mg/l/4h (inh-rat)
Base oils in this product contain < 3% DMSO Extractable total polycyclic aromatic compound (PAC) per IP 346.

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).

COMPONENT**BUTANE**

TOXIC DOSE - LD 50
TOXIC CONC. - LC 50

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

COMPONENT**SEVERELY HYDROTREATED NORMAL PARAFFINS C5-C20**

TOXIC DOSE - LD 50
TOXIC CONC. - LC 50

N/A.
N/A.

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION There is no ecological data on the product itself.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS Spilled material, unused contents and empty containers must be disposed of in accordance with local, state and federal regulations. DO NOT puncture spraycan.

WASTE CLASSIFICATION D001 Ignitable.

14. TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME Consumer Commodity

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

IDENTIFICATION No. N/A

REPORTABLE QUANTITY (RQ) No

U.S. DOT HAZARD LABEL No DOT label requirement

MARKINGS Cartons must bear ORM-D marking and orientation arrows. Aerosol Packaging must bear the NFPA 30B Aerosol Level.

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 (Fl. Pt. = -104 C/-156 F)

UN No., AIR UN1950

ICAO CLASS 2.1

AIR PACK GR. N/A

AIR TRANSPORT NOTES Aerosols

15. REGULATORY INFORMATION

COMPONENT	US FEDERAL REGULATIONS		
	SARA 302	CERCLA	SARA 313
SEVERELY HYDROTREATED NORMAL PARAFFINS C5-C20	No	No	No
BUTANE	No	No	No
PETROLEUM RESINS	No	No	No

ASPHALT (BITUMENS)	No	No	No
RESIDUAL OILS, PETROLEUM, HIGHLY REFINED, 150 BRIGHT STOCK**(7)	No	No	No
PROPANE	No	No	No

CLEAN AIR ACT

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

SARA HAZARD CATEGORIES Chronic Fire

US STATE REGULATIONS

COMPONENT	CA	MA	FL	MN	NJ	PA	RI
ASPHALT (BITUMENS)	C	Yes			Yes	Yes	

STATE REGULATORY STATUS

CALIFORNIA PROPOSITION 65: This product may contain the following chemical(s) 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:
 Toluene, developmental hazard, CAS # 108-88-3 <100 ppm
 Benzene, cancer hazard, CAS # 71-43-2 <10 ppm

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

Risk phrases

R-12 Extremely flammable.

GLOBAL INVENTORIES

COMPONENT	CAN	US	EU	AUS	JAP	KOR	PHLP	CHN
PETROLEUM RESINS	DSL	Yes	EINECS	Yes	Yes	Yes		Yes
ASPHALT (BITUMENS)	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
RESIDUAL OILS, PETROLEUM, HIGHLY REFINED, 150 BRIGHT STOCK**(7)	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
PROPANE	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
BUTANE	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
SEVERELY HYDROTREATED NORMAL PARAFFINS C5-C20	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).

16. OTHER INFORMATION

NFPA-HMIS HAZARD RATING

HEALTH	Irritation, minor residual injury (1) - HMIS/NFPA
FLAMMABILITY	Burns only if pre-heated (1) - HMIS/NFPA
REACTIVITY	Normally Stable (0) - HMIS/NFPA
PERSONAL PROTECTION INDEX	B - Safety Eyewear and Gloves
REVISION COMMENTS	Section 2: Ingredients Section 7: Storage Precautions Section 9: Physical Properties
PREPARED BY	Heather Holich James W. Hermann
Replacement of MSDS generated	2006-09-05
DATE	2006-11-06
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:	2006-11-06