



MATERIAL SAFETY DATA SHEET

LUBRIMATIC ULTRA LUBE GREASE (11309 - 11310)

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME	LUBRIMATIC ULTRA LUBE GREASE (11309 - 11310)
PRODUCT NUMBER	11309, 11310, MBK99000A0
PRODUCT USE	Lubricating Grease
MANUFACTURER	Chemtool, Incorporated 801 West Rockton Rd. Rockton, IL 61072 U.S.A
DISTRIBUTOR	Plews/Edelmann 1550 Franklin Grove Road Dixon, IL 61021 U.S.A. Tel: +01(815) 288 - 3344
EMERGENCY TELEPHONE	CHEMTREC +1 800 424 9300 - Outside the US +01 703 527 3887 [for Plews/Edelmann]
Date of last issue	2010-01-27

2. COMPOSITION AND INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS No.	WEIGHT
LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED (IP346 DMSO Extracts <3%)	Mixture**(2)	70-90 %
*LITHIUM SOAP AND MIXED BASE THICKENERS	Proprietary	5-15 %
*PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS	68649-42-3	<1 %
*BENZENESULFONIC ACID, DODECYL-, CALCIUM SALT	26264-06-2	<0.5 %
*CARBON BLACK	1333-86-4	<0.2 %
*ANTIMONY DIALKYLDITHIOCARBAMATE	Proprietary	<0.1 %

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

COMPOSITION COMMENTS

Refer to section eight (8) for exposure limits on ingredients. Chemical ingredients not regulated by OSHA or SARA are treated confidentially.

** (2) The base oil for this product can be a mixture of any of the following highly refined petroleum streams:

CAS 64741-88-4; CAS 64741-89-5; CAS 64741-95-3; CAS 64741-96-4; CAS 64741-97-5; CAS 64742-01-4; CAS 64742-52-5; CAS 64742-53-6; CAS 64742-54-7; CAS 64742-55-8; CAS 64742-56-9; CAS 64742-57-0; CAS 64742-62-7; CAS 64742-63-8; CAS 64742-65-0; CAS 72623-83-7; CAS 72623-85-9; CAS 72623-86-0; CAS 72623-87-1. Carcinogenicity: The petroleum base oils contained in this product

have been highly refined by a variety of processes including solvent extraction, solvent dewaxing and hydrotreating to remove aromatics and improve performance characteristics. All petroleum base oils contained in this product meet the IP 346 criteria of less than 3 percent DMSO extractable PAH's and are not considered carcinogens by IARC, NTP or OSHA.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HEALTH HAZARDS, GENERAL	Exposure to vapors generated at high temperatures may cause respiratory irritation.
SENSITIZATION	No known information.
CARCINOGENICITY	IARC-2B: The agent is possibly carcinogenic to humans (limited evidence of carcinogenicity in humans). Carbon Black, CAS # 1333-86-4
HEALTH WARNINGS	INHALATION. 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. 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	Inhalation. Skin and/or eye contact. Ingestion.
MEDICAL SYMPTOMS	MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

4. FIRST AID MEASURES

INHALATION	Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor of hot product, immediately remove from source of exposure. Move the exposed person to fresh air at once. For breathing difficulties oxygen may be necessary. Get medical attention if any discomfort continues.
EYES	Rinse the eye with water immediately. Continue to rinse for at least 15 minutes. Contact physician if 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)	224 (435°F) Cd OC (Cleveland open cup).
FLAMMABILITY LIMIT - LOWER(%)	N/D
FLAMMABILITY LIMIT - UPPER(%)	N/D
EXTINGUISHING MEDIA	Use: Carbon dioxide (CO2). Dry chemicals, sand, dolomite etc. Alcohol resistant foam. Water spray, fog or mist.
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.

UNUSUAL FIRE & EXPLOSION HAZARDS

Pressure will increase in over heated, closed containers.

HAZARDOUS COMBUSTION PRODUCTS

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. Avoid breathing vapors. Wear an appropriate respirator if exposure exceeds recommended guidelines. Remove sources of ignition. Wear suitable eye protection.

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

Contain spill. Absorb small amounts. Collect and return large amounts to shipping container. Rinse area with water.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS

Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Do not reuse container. Keep lid closed when not in use. Do not store or mix with strong oxidizers. Avoid spilling, skin and eye contact. Eye wash and emergency shower must be available at the work place.

STORAGE PRECAUTIONS

Store separate from strong acids and oxidizers. Keep away from heat, sparks and open flame.

STORAGE CRITERIA

Chemical storage.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

COMPONENT	STD	TWA	STEL	TWA	STEL
LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED (IP346 DMSO Extracts <3%)	OSHA			5 mg/m3 as oil mist	
CARBON BLACK	ACGIH			5 mg/m3 as oil mist	10 mg/m3 as oil mist
	OSHA			3.5 mg/m3	
	ACGIH			3.5 mg/m3	**A4
ANTIMONY DIALKYL DITHIOCARBAMATE	NIOSH	3.5 mg/m3	**Ca		
	OSHA			0.5 mg/m3 as Sb	
	ACGIH			0.5 mg/m3 as Sb	

INGREDIENT COMMENTS

**NIOSH Ca: Potential Occupational Carcinogen.
 **ACGIH A4: Not Classifiable as a Human 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	Chemical resistant gloves recommended to prevent 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	Grease.		
COLOR	Black.		
ODOR	Mild (or faint). Petroleum.		
SOLUBILITY DESCRIPTION	Insoluble in water.		
DENSITY	0.89	Temperature (°C)	15.6 (60°F)
VAPOR DENSITY (air=1)	> 5		
VAPOR PRESSURE	< 0.1 mmHg	Temperature (°C)	20 (68°F)
EVAPORATION RATE	< 0.01	Reference	BuAc=1
pH-VALUE, CONC. SOLUTION	N/A		

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
MATERIALS TO AVOID	Acids, oxidizing. Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Oxides of: Carbon.

11. TOXICOLOGICAL INFORMATION

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

COMPONENT **LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED (IP346 DMSO Extracts <3%)**

TOXICOLOGICAL DATA WHMIS (Canada) = Not a controlled product.
Carcinogenicity. IP 346 = <3% DMSO Extracts.
TOXIC DOSE - LD 50 > 5000 mg/kg (oral rat)
TOXIC DOSE - LD 50 SKIN > 2000 mg/kg (skn rbt)
TOXIC CONC. - LC 50 No Information Available (NIA).
IRRITATION Prolonged skin contact may cause irritation.
SENSITIZATION Not known to be a sensitizer.

COMPONENT **LITHIUM SOAP AND MIXED BASE THICKENERS**

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

COMPONENT **CARBON BLACK**

TOXICOLOGICAL DATA WHMIS (Canada) D2A
Acute toxicity. TLo 6 hours. Inhalation. Rat. 7 mg/m3
Irritating effects. Skin. Slight Irritant (0.6/8)
Carcinogenicity. IARC = 2B
TOXIC DOSE - LD 50 > 15400 mg/kg (oral rat)
TOXIC DOSE - LD 50 SKIN > 3000 mg/kg (skn rbt)
CARCINOGENICITY NTP: Not listed. MAK-3 designation: Substances which cause concern that they could be carcinogenic for man. IARC-2B: The agent is possibly carcinogenic to humans (limited evidence of carcinogenicity in humans).

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.

14. TRANSPORT INFORMATION

DOT HAZARD CLASS	Not regulated.
REPORTABLE QUANTITY (RQ)	No
TDGR CLASS	Not Regulated.
IMDG CLASS	Not regulated
SEA TRANSPORT NOTES	Not regulated per IMDG.
AIR TRANSPORT NOTES	Not regulated per IATA.

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS

COMPONENT	SARA 302	CERCLA	SARA 313
LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED (IP346 DMSO Extracts <3%)	No	No	No
LITHIUM SOAP AND MIXED BASE THICKENERS	No	No	No
PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS	No	***	N982 - Zn
BENZENESULFONIC ACID, DODECYL-, CALCIUM SALT	No	1 000 lbs	No
CARBON BLACK	No	No	No
ANTIMONY DIALKYLDITHIOCARBAMATE	No	***	N010 - Sb

REGULATORY STATUS

*** Indicates that no RQ is assigned to this generic or broad class, although the class is a CERCLA hazardous substance. See 50 Federal Register 13456 (April 4, 1985). Values in Section 313 column represent Category Codes for reporting under Section 313.

CLEAN AIR ACT

COMPONENT	CAA Accidental Release Prevention
ANTIMONY DIALKYLDITHIOCARBAMATE	No
CARBON BLACK	No
LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED (IP346 DMSO Extracts <3%)	No
LITHIUM SOAP AND MIXED BASE THICKENERS	No
PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS	No
BENZENESULFONIC ACID, DODECYL-, CALCIUM SALT	No

SARA HAZARD CATEGORIES None

US STATE REGULATIONS

COMPONENT	CA	MA	FL	MN	NJ	PA	RI
LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED (IP346 DMSO Extracts <3%)	No	No	No	No	No	No	No
LITHIUM SOAP AND MIXED BASE THICKENERS	No	No	No	No	No	No	No
PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS	No	No	Yes	Yes	Yes	EH	No
BENZENESULFONIC ACID, DODECYL-, CALCIUM SALT	No	Yes	No	No	Yes	EH	No
CARBON BLACK	C	Yes	No	No	Yes	HS	No
ANTIMONY DIALKYLDITHIOCARBAMATE	No	No	No	No	No	No	No

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:

Carbon black (airborne, unbound particles of respirable size), cancer hazard, CAS# 1333-86-4.

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.

Zinc compounds regulated under CERCLA and SARA 313, Environmental Hazard
 Antimony compounds regulated under CERCLA and SARA 313, Environmental Hazard

Benzenesulfonic acid, dodecyl-, sodium salt, Environmental Hazard, CAS# 25155-30-0

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

D2A - Very Irritating and/or Very Chronically Toxic Materials

Risk phrases

Classification per manufacturer.
 R-22 Harmful if swallowed.
 R-25 Toxic if swallowed.
 R-38 Irritating to skin.
 R-65 Harmful: may cause lung damage if swallowed.
 Xi
 Xn

GLOBAL INVENTORIES

COMPONENT	CAN	US	EU	AUS	JAP	KOR	PHLP	CHN
ANTIMONY DIALKYL DITHIOCARBAMATE	NPRI	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED (IP346 DMSO Extracts <3%)	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
LITHIUM SOAP AND MIXED BASE THICKENERS	DSL	Yes	EINECS	No	Yes	Yes	No	No
PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
BENZENESULFONIC ACID, DODECYL-, CALCIUM SALT	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes

CARBON BLACK	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
--------------	-----	-----	--------	-----	-----	-----	-----	-----

USA (TSCA)	CANADA CEPA: All components of this product comply with new substance notification requirements under the Canadian Environmental Protection Act (CEPA). All components in this product are listed on the US Toxic Substances Control Act (TSCA) Inventory or are exempt from TSCA Inventory requirements.
CANADA (DSL)	All components in this product are listed on the Canada Domestic Substances List (DSL) or are exempt from DSL requirements.
EUROPE (EINECS/ELINCS/NLP)	All components in this product are listed on the European Inventory of New and Existing Chemical Substances (EINECS), the European List of Notified Chemical Substances (ELINCS), or the No Longer Polymers (NLP) list, or are exempt from EU listing requirements.
JAPAN (ENCS)	All components in this product are listed on the Japan Inventory of Existing and New Chemical Substances (ENCS) or are exempt from ENCS requirements.
PHILIPPINES (PICCS)	This product contains one or more components that are NOT LISTED on the Philippines Inventory of Chemicals and Chemical Substances (PICCS) and are NOT EXEMPT from PICCS requirements.
AUSTRALIA (AICS)	This product contains one or more components that are NOT LISTED on the Australian Inventory of Chemical Substances (AICS) and are NOT EXEMPT from AICS requirements.
KOREA (ECL)	All components in this product are listed on the Korea Existing Chemicals List (ECL) or are exempt from KECL requirements.
CHINA (IECS)	This product contains one or more components that are NOT LISTED on the China Inventory of Existing Chemical Substances (IECS) and are NOT EXEMPT from IECS requirements.

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
Tariff Code (Schedule B)	2710.19.3750 Lubricating greases, with or without additives.
REVISION COMMENTS	Section 1: Name Change Section 1: Product Number Section 1: Manufacturer Section 1: Distributor Section 1: Emergency Telephone Section 16: Tariff Code (Schedule B)
PREPARED BY	Chemtool, Incorporated
Replacement of MSDS generated	2009-01-06
MSDS No.	14037

DATE 2010-01-27

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 SOURCES Raw Material MSDS(s).

* Information revised since previous **MSDS** version

PRINTING DATE: 2010-01-27