

# MATERIAL SAFETY DATA SHEET LUBRIMATIC MULTI-PURPOSE LITHIUM GREASE (11300-11302-11306-11315-11316-11328-11330-11332)

# 1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME LUBRIMATIC MULTI-PURPOSE LITHIUM GREASE

(11300-11302-11306-11315-11316-11328-11330-11332)

PRODUCT DESCRIPTION LUBRICATING GREASE

**PRODUCT NUMBER** 11300, 11302, 11306, 11315, 11316, 11328, 11330, 11332, 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	Mixture**(2)	70-90 %
Extracts <3%)		
*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 %

<sup>\*</sup> 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** See Section 11 for carcinogenicity data of ingredients.

**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: allergy, eczema and skin

conditions.

#### 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.

FIRE

**PROTECTIVE MEASURES IN CASE OF** 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 Contain spill. Absorb small amounts. Collect and return large amounts to shipping

container. Rinse area with water.

# 7. HANDLING AND STORAGE

Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is HANDLING PRECAUTIONS

> 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	
	ACGIH			5 mg/m3 as oil mist	10 mg/m3 as oil mist
CARBON BLACK	OSHA			3.5 mg/m3	
	ACGIH			3.5 mg/m3	**A4
	NIOSH	3.5 mg/m3	**Ca		
ANTIMONY DIALKYLDITHIOCARBAMATE	OSHA			0.5 mg/m3 as Sb	
	ACGIH			0.5 mg/m3 as Sb	

**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 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

HAZARDOUS DECOMPOSITION

DDODLICTC

Oxides of: Carbon.

**PRODUCTS** 

# 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. TCLo 6 hours. Inhalation. Rat. 7 mg/m3

Irritating effects. Skin. Slight Irritant (0.6/8)

Carcinogenicity. IARC = 2B > 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

**TOXIC DOSE - LD 50** 

**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.

TDGR CLASS Not Regulated.

**SEA TRANSPORT NOTES** Not regulated per IMDG.

**AIR TRANSPORT NOTES** Not regulated per IATA.

# 15. REGULATORY INFORMATION

#### **US FEDERAL REGULATIONS**

COMPONENT	<b>SARA 302</b>	CERCLA	<b>SARA 313</b>
LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED (IP346 DMSO	No	No	No
Extracts <3%)			
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**

#### **CLEAN AIR ACT**

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

#### SARA HAZARD CATEGORIES None

#### **US STATE REGULATIONS**

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

<sup>\*\*\*</sup> 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.

CARBON BLACK	С	Yes	No	No	Yes	HS	No	
ANTIMONY DIALKYLDITHIOCARBAMATE	Nο	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.

# CONTROLLED PRODUCT CLASSIFICATION

USA (TSCA)

CANADA (DSL)

**EUROPE (EINECS/ELINCS/NLP)** 

Not a controlled product.

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

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.

7/8

All components in this product are listed on the Canada Domestic Substances List (DSL) or are exempt from DSL requirements.

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.

12271 - LUBRIMATIC MULTI-PURPOSE LITHIUM GREASE (11300-11302-11306-11315-11316-11328-11330-11332)

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

NPCA HMIS HAZARD INDEX Slight! Slightly Toxic - May cause slight irritation (1).

PERSONAL PROTECTION INDEX B - Safety Eyewear and Gloves

NPCA HMIS FLAMMABILITY INDEX

Burns only if pre-heated (1).

NPCA HMIS REACTIVITY INDEX Normally stable (0).

**Tariff Code (Schedule B)** 2710.19.3750 Lubricating greases, with or without additives.

**REVISION COMMENTS**Section 1: Product Number
Section 1: Manufacturer

Section 1: Manufacture Section 1: Distributor

Section 1: Emergency Telephone

PREPARED BY Chemtool, Incorporated

Replacement of MSDS generated 2009-01-05

**MSDS No.** 12271

**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  $% \left( 1\right) =\left( 1\right) \left( 1$ 

and disclaims all liability from reliance therein.

**INFORMATION SOURCES** Raw Material MSDS(s).

\* Information revised since previous MSDS version

**PRINTING DATE:** 2010-01-27