



MATERIAL SAFETY DATA SHEET

LUBRIMATIC MARINE TRAILER BEARING GREASE (11399-11409)

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME	LUBRIMATIC MARINE TRAILER BEARING GREASE (11399-11409)
Product number	CSG2105000
PRODUCT USE	Lubricating Grease
DISTRIBUTOR	Plews/Edelmann 1550 Franklin Grove Road Dixon, IL 61021 Tel: +01(815) 288 - 3344
CHEMICAL MANUFACTURER	Chemtool Incorporated, P.O.Box 538, 8200 Ridgefield Rd., Crystal Lake, IL 60039-0538, USA.
EMERGENCY TELEPHONE	CHEMTREC (800) 424-9300 - Outside the US (703) 527-3887
Date of last issue	2010-01-21

2. COMPOSITION AND INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS No.	WEIGHT
LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED (IP346 DMSO Extracts <3%)	Mixture**(2)	60-80 %
OVERBASED CALCIUM SULFONATE COMPLEX THICKENER	Proprietary	20-40 %
*BORIC ACID (H3BO3), CALCIUM SALT (ALTERNATE CASRNs 13701-64-9 & 12040-58-3)	13840-55-6	1-5 %

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

SENSITIZATION	No known information.
TERATOGENICITY	No known information.
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. INJECTION INJURY WARNING: If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.
INGESTION	DO NOT INDUCE VOMITING! Get medical attention immediately! Do not give milk or oil. Drink large amounts of water. If vomiting occurs, lean forward to reduce the risk of aspiration.

5. FIRE FIGHTING MEASURES

FLASH POINT (°C)	246 (475°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. Sulfur. Nitrogen.
PROTECTIVE MEASURES IN CASE OF FIRE	Self-contained breathing equipment and chemical resistant clothing recommended.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Minimize skin contact. 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	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	Keep away from heat, sparks and open flame. 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	
	ACGIH			5 mg/m3 as oil mist	10 mg/m3 as oil mist
OVERBASED CALCIUM SULFONATE COMPLEX THICKENER	OSHA	15 mg/m3 (total)	as CaCO3	5 mg/m3 (resp)	as CaCO3
	ACGIH	1 mg/m3 (inh)	NIC 2005	10 mg/m3 **(e)	as CaCO3

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. Use protective gloves made of: Neoprene, Nitrile, Polyethylene or PVC.
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	Green.		
ODOR	Mild (or faint). Petroleum.		
SOLUBILITY DESCRIPTION	Insoluble in water.		
SOLUBILITY VALUE (g/100g H₂O 20°C)	< 0.1		
DENSITY	0.96	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
PRODUCTS**

Oxides of: Carbon, Sulfur, Nitrogen.

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**OVERBASED CALCIUM SULFONATE COMPLEX THICKENER****TOXICOLOGICAL DATA**

WHMIS (Canada)

TOXIC DOSE - LD 50

> 2,000 (Read across) mg/kg (oral rat)

TOXIC DOSE - LD 50 SKIN

> 2,000 (Read Across) mg/kg (skn rbt)

TOXIC CONC. - LC 50

> 0.5 (Read across) mg/l (inh-rat)

COMPONENT**BORIC ACID (H3BO3), CALCIUM SALT (ALTERNATE CASRNs 13701-64-9 & 12040-58-3)****TOXICOLOGICAL DATA**

Reproductive effects. WHMIS (Canada)

Reproductive effects. TDLo 3 generations Oral, Rat, mg/kg/day

Reproductive effects. TDLo 2 generations Oral, Mouse, mg/kg/day

TOXIC DOSE - LD 50

2660-5140 mg/kg (oral rat)

TOXIC DOSE - LD 50 SKIN

> 2000 mg/kg (skn rbt)

TOXIC CONC. - LC 50

0.89-21.1 mg/l

GENOTOXICITY

Boric acid causes lower fetal body weights in pregnant rats at 78 mg/kg/day and increased incidences of rib and brain abnormalities at higher doses.

REPRODUCTION TOXICITY

Adverse reproductive effects have occurred in experimental animals. Boric acid was found to induce testicular atrophy and effects on spermatogenesis in rats and mice in various studies. Effects occurred at dose-levels (27 mg/kg) without general toxicity.

12. ECOLOGICAL INFORMATION**ECOLOGICAL INFORMATION** There is no ecological data on the product itself.**COMPONENT****OVERBASED CALCIUM SULFONATE COMPLEX THICKENER****ECOTOXICOLOGICAL DATA**

WGK = 2 Self assessment.

COMPONENT**BORIC ACID (H3BO3), CALCIUM SALT (ALTERNATE CASRNs 13701-64-9 & 12040-58-3)**

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

CLASSIFICATION COMMENT	Not regulated by US DOT.
IDENTIFICATION No.	N/A
REPORTABLE QUANTITY (RQ)	No
U.S. DOT HAZARD LABEL	No DOT label requirement
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
OVERBASED CALCIUM SULFONATE COMPLEX THICKENER	No	No	No
BORIC ACID (H3BO3), CALCIUM SALT (ALTERNATE CASRNs 13701-64-9 & 12040-58-3)	No	No	No
LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED (IP346 DMSO Extracts <3%)	No	No	No

CLEAN AIR ACT

COMPONENT	CAA Accidental Release Prevention
OVERBASED CALCIUM SULFONATE COMPLEX THICKENER	No
LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED (IP346 DMSO Extracts <3%)	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
OVERBASED CALCIUM SULFONATE COMPLEX THICKENER	No	No	No	No	No	No	No
BORIC ACID (H3BO3), CALCIUM SALT (ALTERNATE CASRNs 13701-64-9 & 12040-58-3)	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:

1-Naphthylamine, CAS # 134-32-7 <10 ppm
2-Naphthylamine, CAS # 91-59-8, <0.01 ppm
Crystalline silica, cancer hazard, CAS# 14808-60-7 , <100 ppm.
Naphthalene, cancer hazard, CAS # 91-20-3, <10 ppm.
Aniline, cancer hazard, CAS # 62-53-3, < 0.01ppm.

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**

D2B - Irritating and/or Chronically Toxic Materials

Risk phrases

Classification per manufacturer.
R-22 Harmful if swallowed.
R-36/37/38 Irritating to eyes, respiratory system and skin.
Xi, Xn

GLOBAL INVENTORIES

COMPONENT	CAN	US	EU	AUS	JAP	KOR	PHLP	CHN
LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED (IP346 DMSO Extracts <3%)	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
OVERBASED CALCIUM SULFONATE COMPLEX THICKENER	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
BORIC ACID (H3BO3), CALCIUM SALT (ALTERNATE CASRNs 13701-64-9 & 12040-58-3)	DSL	Yes	EINECS	Yes	1-637	Yes	Yes	Yes

CANADA CEPA: All components of this product comply with new substance notification requirements under the Canadian Environmental Protection Act (CEPA).

USA (TSCA)

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)

All components in this product are listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS) or are exempt from PICCS requirements

AUSTRALIA (AICS)

All components in this product are listed on the Australian Inventory of Chemical

	Substances (AICS) or are 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)	All components in this product are listed on the China Inventory of Existing Chemical Substances (IECS) or are 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)	3403.19.0000 Lubricating preparations (including cutting-oil preparations, bolt or nut release preparations, antirust or anticorrosion preparations and mold release preparations, based on lubricants) and preparations of a kind used for the oil or grease treatment of textile materials, leather, furskins or other materials, but excluding preparations containing, as basic constituents, 70 percent or more by weight of petroleum oils or oils obtained from bituminous minerals: Containing petroleum oils or oils obtained from bituminous minerals: Other
PREPARED BY	Chemtool Incorporated
Replacement of MSDS generated	2009-02 -05
DATE	2010-01-21
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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