Amor Plate with Moly-D EP Open Gear Lubricant

Prepared according to U.S. OSHA, CMA, ANSI, Canadian WHMIS regulations

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: PRODUCT NUMBER: PRODUCT DESCRIPTION: U.N. NUMBER: U.N. DANGEROUS GOODS CLASS: SUPPLIER/MANUFACTURER'S NAME: ADDRESS: EMERGENCY PHONE: BUSINESS PHONE: WEB SITE: DATE OF PREPARATION: DATE OF LAST REVISION:

555 Open Gear Lubricant None Non-Regulated Material **Primrose Oil Company, Inc.** 11444 Denton Drive, P.O. Box 29665, Dallas, Texas 75229 USA 1-800-633-8253 (For Emergencies Only) 1-972-241-1100 (For product information) www.primrose.com September 13, 2017 November 20, 2013

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SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

This product is a light brown to brown colored liquid with a mild petroleum odor.

HEALTH HAZARDS: Repeated or prolonged contact with skin may cause irritation. Contact with eyes can cause irritation.

FLAMMABILITY: This product is a Non-Flammable product with a flash point >200°F.

ENVIRONMENTAL EFFECTS: The Environmental effects of this product have not been investigated, however this product contains ingredients that may cause adverse effects to aquatic life.

US DOT SYMBOLS

CANADA (WHMIS) SYMBOLS

Non-Regulated

Complies with WHMIS 2015



GHS HAZARD SYMBOL(S)

Signal Word: Warning!

COMPONENTS DETERMINING HAZARDS:

Polybutene, 5,5'-dithiodi-1,3,4-thiadiazole-2(3H)-thione, Silane, dichlorodimethyl-, reaction products with silica, Molybdenum, bis(dibutylcarbamodithioato)di-mu-oxodioxodi-, sulfurized

GHS HAZARD CLASSIFICATION(S):

Skin Irritation Category 2

Eye Irritation Category 2A

HAZARD STATEMENTS: Causes skin irritation

Causes eye irritation

PREVENTION STATEMENTS:

Wash thoroughly after handling

Wear protective gloves / eye protection

RESPONSE STATEMENTS:

IF ON SKIN: Wash with plenty of water.

Specific treatment (See Section 4 of this SDS).

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

STORAGE STATEMENTS:

None applicable.

DISPOSAL STATEMENTS:

Not applicable.

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HEALTH HAZARDS OR RISKS FROM EXPOSURE:

ACUTE:

INHALATION: Not expected to cause respiratory hazards at ambient temperatures.

EYE CONTACT: Direct eye contact can cause irritation with redness, tearing and blurred vision.

SKIN CONTACT: May cause skin irritation.

INGESTION: Ingestion of this product can cause a laxative effect. May be an aspiration hazard.

CHRONIC: Prolonged or repeated contact with product and poor hygiene conditions may result in skin dryness or dermatitis.

TARGET ORGANS:

ACUTE: Eye, Skin

CHRONIC: Skin

SECTION 3 - COMPOSITION and INFORMATION ON INGREDIENTS

HAZARDS DISCLOSURE: This product does contain known hazardous materials in reportable levels as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200. As defined under Sara 311 and 312, this product contains known hazardous materials.

HAZARDOUS INGREDIENTS:	CAS #	WT %	HAZARD CLASSIFICATION	
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	80 – 90%	NOT CLASSFIED (*NOTE - <3% DMSO)	
Polybutene	9003-29-6	30 – 35%	SKIN IRRIT CAT 2, EYE IRRIT CAT 2A	
5,5'-dithiodi-1,3,4-thiadiazole-2(3H)- thione	72676-55-2	5 – 15%	SKIN IRRIT CAT 2, EYE IRRIT CAT 2A	
Silane, dichlorodimethyl-, reaction products with silica	68611-44-9	1 – 10%	SKIN IRRIT CAT 2, EYE IRRIT CAT 2A	
Molybdenum, bis(dibutylcarbamodithioato)di-mu- oxodioxodi-, sulfurized	68412-26-0	1 – 5%	SKIN IRRIT CAT 2, EYE IRRIT CAT 2A	

Each of the other components present are less than 1 percent concentration (0.1% concentration for potential carcinogens, reproductive toxins, respiratory tract sensitizers, and mutagens)

SECTION 4 - FIRST-AID MEASURES

Contaminated individuals of chemical exposure must be taken for medical attention if any adverse effect occurs. Rescuers should be taken for medical attention, if necessary. Take copy of label and MSDS to health professional with contaminated individual.

EYE CONTACT: If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation or blurred vision continues.

SKIN CONTACT: Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists.

INHALATION: If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention immediately.

INGESTION: If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or MSDS with the victim to the health professional.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Individuals with pre-existing skin disorders or respiratory conditions should avoid contact with this product.

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and reduce over-exposure.

SECTION 5 - FIRE-FIGHTING MEASURES

FLASH POINT: AUTOIGNITION TEMPERATURE: FLAMMABLE LIMITS (in air by volume, %): FIRE EXTINGUISHING MATERIALS:

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Explosion Sensitivity to Mechanical Impact: Explosion Sensitivity to Static Discharge: >200°F Not Established Lower (LEL): Not Established Upper (UEL): Not Established Dry chemical, carbon dioxide, foam. Do not use forced stream as this could cause fire to spread. None known Not Sensitive. Not Sensitive

SPECIAL FIRE-FIGHTING PROCEDURES: NFPA Rating System



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Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE: Personnel should be trained for spill response operations. Contain and recover if possible. Use non-sparking tools and equipment. Cover spilled product with sand, earth or other non-combustible absorbent material. Pickup spilled material immediately and place in appropriate containers. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations).

Do not discharge to sewers and surface waters. Notify authorities if entry occurs.

U.S. Regulations (CERCLA) requires reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

SECTION 7 - HANDLING and STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: As with all chemicals, avoid getting this product on you. Wash thoroughly after handling this product. Use in a well-ventilated location.

STORAGE AND HANDLING PRACTICES: Store containers in a cool, dry location. Keep away from sources of ignition. Keep container tightly closed when not in use. Protect from physical damage.

SECTION 8 - EXPOSURE CONTROLS - PERSONAL PROTECTION

EXPOSURE LIMITS/GUIDELINES:

Chemical Name	CAS#	ACGIH TWA	OSHA TWA
Severely Solvent Refined Heavy Paraffinic Petroleum Oil	64742-65-0	5 mg/m³ Oil Mist	5 mg/m³ Oil Mist
Polybutene	9003-29-6	Not Listed	Not Listed
5,5'-dithiodi-1,3,4-thiadiazole-2(3H)- thione	72676-55-2	Not Listed	Not Listed
Silane, dichlorodimethyl-, reaction products with silica	68611-44-9	Not Listed	Not Listed
Molybdenum, bis(dibutylcarbamodithioato)di-mu- oxodioxodi-, sulfurized	68412-26-0	Not Listed	Not Listed

Currently, International exposure limits are not established for all the components of this product. Please check with competent authority in each country for the most recent limits in place.

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above. Use local exhaust ventilation to control airborne vapors.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada. Please reference applicable regulations and standards for relevant details.

- **RESPIRATORY PROTECTION:** Not normally required when using this product. Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93.
- **EYE PROTECTION:** Wear safety glasses or chemical goggles as appropriate were splashing is possible. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards.
- **HAND PROTECTION:** Wear chemical resistant gloves as appropriate to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.
- **BODY PROTECTION:** Use body protection appropriate to prevent skin contact (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

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SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL STATE:	
APPEARANCE & ODOR:	

ODOR THRESHOLD (PPM): VAPOR PRESSURE (mmHg): VAPOR DENSITY (AIR=1): EVAPORATION RATE (nBuAc = 1): BOILING POINT (C°): FREEZING POINT (C°): pH: SPECIFIC GRAVITY 20°C: (WATER =1) SOLUBILITY IN WATER (%) VOC: Liquid green colored liquid with a mild petroleum odor Mild Not Available Not Available >415°F Not Available Not Available

0.9 Partial

Not Available

SECTION 10 - STABILITY and REACTIVITY

STABILITY: Product is stable

DECOMPOSITION PRODUCTS: When heated to decomposition this product produces oxides of carbon and nitrogen including CO and CO2, and some metallic oxides.

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Strong oxidizers.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Contact with incompatible materials and ignition sources

SECTION 11 - TOXICOLOGICAL INFORMATION

TOXICITY DATA: No specific data available for this product.

SUSPECTED CANCER AGENT: One or more of the ingredients are found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC and therefore is considered to be, or suspected to be a cancer-causing agent by these agencies.

Note: This product contains petroleum products which are severely refined and not considered a potential carcinogen based on IP346 DMSO of less than 3.0 wt%.

IRRITANCY OF PRODUCT: Contact with this product can be irritating to skin and eyes.

SENSITIZATION OF PRODUCT: Ingredients in this product are not considered a sensitizer.

REPRODUCTIVE TOXICITY INFORMATION: No information available

SECTION 12 - ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

ENVIRONMENTAL STABILITY: No specific data is available for this product; however this product is not expected to be readily biodegradable

EFFECT OF MATERIAL ON PLANTS or ANIMALS: If applied to leaves, this product may kill grasses and small plants by interfering with transpiration and respiration. This product is not toxic to fish but may coat gill structures resulting in suffocation if spilled in shallow, running water. Product may be moderately toxic to amphibians by preventing dermal respiration. This product may cause gastrointestinal distress in birds and mammals through ingestion during pelage grooming.

EFFECT OF CHEMICAL ON AQUATIC LIFE: No evidence is currently available on this product's effects on aquatic life. This product does contain ingredients that are considered hazardous to aquatic organisms.

SECTION 13 - DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

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SECTION 14 - TRANSPORTATION INFORMATION

US DOT; IATA; IMO; ADR:

THIS PRODUCT IS NOT HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME: Non-Regulated Material

HAZARD CLASS NUMBER and DESCRIPTION: None

UN IDENTIFICATION NUMBER: None

PACKING GROUP: None

DOT LABEL(S) REQUIRED: None

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2004): None

MARINE POLLUTANT: None of the ingredients are classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B)

U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS:

This product is not classified as dangerous goods, per U.S. DOT regulations, under 49 CFR 172.101.

TRANSPORT CANADA, TRANSPORTATION OF DANGEROUS GOODS REGULATIONS:

This product is not classified as Dangerous Goods, per regulations of Transport Canada.

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):

This product is not classified as Dangerous Goods, by rules of IATA:

INTERNATIONAL MARITIME ORGANIZATION (IMO) DESIGNATION:

This product is not classified as Dangerous Goods by the International Maritime Organization.

SECTION 15 - REGULATORY INFORMATION

UNITED STATES REGULATIONS

SARA REPORTING REQUIREMENTS: This product is subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act., as follows: None

TSCA: All components in this product are listed on the US Toxic Substances Control Act (TSCA) inventory of chemicals.

SARA 311/312:

Acute Health: Yes Chronic Health: No Fire: No Reactivity: No

<u>U.S. SARA THRESHOLD PLANNING QUANTITY:</u> There are no specific Threshold Planning Quantities for this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) may apply, per 40 CFR 370.20.

U.S. CERCLA REPORTABLE QUANTITY (RQ): None

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): This product does not contain ingredients that are on the California Proposition 65 lists.

CANADIAN REGULATIONS:

CANADIAN DSL/NDSL INVENTORY STATUS: All of the components of this product are on the DSL Inventory

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: No component of this product is on the CEPA First Priorities Substance Lists.

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: Complies with WHMIS 2015. INTERNATIONAL CHEMICAL INVENTORIES:

Listing of the components on individual country Chemical Inventories is as follows:

ASIA-PAC	Listed of Exempt
Australian Inventory of Chemical Substances (AICS):	Listed or Exempt
Korean Existing Chemicals List (ECL):	Listed or Exempt
Japanese Existing National Inventory of Chemical Substances (ENCS):	Listed or Exempt
Philippines Inventory if Chemicals and Chemical Substances (PICCS):	Listed or Exempt
Swiss Giftliste List of Toxic Substances:	Listed or Exempt
U.S. TSCA:	Listed

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SECTION 16 - OTHER INFORMATION

PREPARED BY: Chris Eigbrett

MSDS to GHS Compliance

Disclaimer:

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Primrose Oil Company, Inc. The data on this sheet is related only to the specific material designated herein. Primrose Oil Company, Inc. assumes no legal responsibility for use or reliance upon this data.

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Product Notes:

The Petroleum Oils are considered a carcinogen on the international data base. Because they are all severely hydrotreated they are not considered a potential carcinogen based on IP346 DMSO of less than 3.0 wt%.

Revision Levels:

November 20, 2013 – New September 13, 2017 – Updated GHS elements