Armor Plate with Moly-D

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

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Armor Plate with Moly-D

PRODUCT NUMBER: 714M

PRODUCT DESCRIPTION: Gear & Mud Pump Oil

U.N. NUMBER: None

U.N. DANGEROUS GOODS CLASS: Non-Regulated Material

SUPPLIER/MANUFACTURER'S NAME: Primrose Oil Company, Inc.

ADDRESS: 11444 Denton Drive, P.O. Box 29665, Dallas, Texas 75229 USA

EMERGENCY PHONE: 1-800-633-8253 (For Emergencies Only)
BUSINESS PHONE: 1-972-241-1100 (For product information)

WEB SITE: www.primrose.com
DATE OF PREPARATION: January 22, 2014
DATE OF LAST REVISION: May 23, 2017

SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

This product is a clear amber 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 GHS HAZARD SYMBOL(S)

Non-Regulated Not Controlled



Signal Word: Warning!

COMPONENTS DETERMINING HAZARDS:

Severely Hydrotreated Mineral Oil, Severely Solvent Refined Heavy paraffinic Petroleum Oil, Distillates (petroleum), solvent-dewaxed heavy paraffinic, Polybutene, Anti-wear Additive

GHS HAZARD CLASSIFICATION(S):

Carcinogen Category 2 - 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%.

Eye Irritation Category 2B

Acute Dermal Toxicity Category 4

HAZARD STATEMENTS:

Causes skin irritation Causes eye irritation

PRECAUTIONARY STATEMENTS:

Avoid exposure

Use only with adequate ventilation.

Wash thoroughly after handling.

In case of an accident or if you feel unwell - seek medical advice and show label

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.

CHRONIC: Prolonged or repeated contact with product and poor hygiene conditions may result in skin dryness or dermatitis. This product contains ingredients that are known carcinogens.

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TARGET ORGANS: ACUTE: Eye, Skin CHRONIC: Skir

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; RISK PHRASES	
Severely Hydrotreated Mineral Oil	64742-54-7	0 –50%	HAZARD CLASSIFICATION: Carc. Cat 3 RISK PHRASES: R45 (See note above)	
Severely Solvent Refined Heavy paraffinic Petroleum Oil	64741-88-4	0 – 90%	HAZARD CLASSIFICATION: Carc. Cat 3 RISK PHRASES: R45 (See note above)	
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	0 – 96%	HAZARD CLASSIFICATION: Carc. Cat 3 RISK PHRASES: R45 (See note above)	
Polybutene	9003-29-6	0 – 27%	HAZARD CLASSIFICATION: [Xi] Irritant RISK PHRASES: R36/38	
Anti-Wear Additive	Not Assigned	1 – 10%	HAZARD CLASSIFICATION: [Xi] Irritant RISK PHRASES: R36/38	

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)

NOTE: ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format.

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:

SPECIAL FIRE-FIGHTING PROCEDURES: NFPA Rating System

1 0

>200°F

Not Established

<u>Lower (LEL)</u>: Not Established <u>Upper (UEL)</u>: 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

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.

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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 Hydrotreated Mineral Oil	64742-54-7	5 mg/m³ Oil Mist	5 mg/m³ Oil Mist
Severely Solvent Refined Heavy paraffinic Petroleum Oil	64741-88-4	5 mg/m³ Oil Mist	5 mg/m³ Oil Mist
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	5 mg/m³ Oil Mist	5 mg/m³ Oil Mist
Polybutene	9003-29-6	Not Listed	Not Listed
Anti-Wear Additive	Not Assigned	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.

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

APPEARANCE & ODOR: Clear amber colored liquid with a mild petroleum odor

ODOR THRESHOLD (PPM): Mild

VAPOR PRESSURE (mmHg):

VAPOR DENSITY (AIR=1):

EVAPORATION RATE (nBuAc = 1):

Not Available

Not Available

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BOILING POINT (C°): >415°F
FREEZING POINT (C°): Not Available
pH: Not Available

SPECIFIC GRAVITY 20°C: (WATER =1) 0.9
SOLUBILITY IN WATER (%) Partial
VOC: 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: Toxicity data is available for the following components:

CAS# 64741-88-4

Oral, Rat; LD50 = >5,000 mg/kg

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.

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

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<u>MARINE POLLUTANT:</u> 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

<u>CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65)</u>: This product does not contain any 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: This is considered to be a hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations and is therefore subject to the labeling and MSDS requirements of the Workplace Hazardous Materials Information System (WHMIS). Not Controlled

INTERNATIONAL CHEMICAL INVENTORIES:

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

Asia-Pac:

Australian Inventory of Chemical Substances (AICS):

Korean Existing Chemicals List (ECL):

Japanese Existing National Inventory of Chemical Substances (ENCS):

Philippines Inventory if Chemicals and Chemical Substances (PICCS):

Swiss Giftliste List of Toxic Substances:

Listed or Exempt Listed Oxide L

U.S. TSCA: Listed

SECTION 16 - OTHER INFORMATION

PREPARED BY: Paul Eigbrett MSDS Authoring PLUS

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.

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