Safety Data Sheet

Section 1 - Product and Company Identification

Product Name: Exmark Premium Hydro Oil

Product Code: 505-164

Trade Name: Hydraulic Oil

Exmark Manufacturing Co., Inc.
PO Box 808
Beatrice, NE 68310-0808

Telephone Numbers
Chem Tel 800-255-3924 or for International +01-813-248-0585

Email Address
healthandsafety@toro.com

Product Use: Hydraulic Lubricant
Not recommended for: Applications other than those intended. For application information consult with a company representative.

Section 2 - Hazards Identification

Emergency Overview:
In accordance with good industrial hygiene and industrial practices. Airborne exposures should be controlled to the lowest extent possible. Do not ingest. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash thoroughly after handling. Keep container closed.

GHS Ratings:

Skin corrosive	3	Reversible adverse effects in dermal tissue, Draize score: >= 1.5 < 2.3
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5
Reproductive toxin	2	Human or animal evidence possibly with other information

GHS Hazards

H316	Causes mild skin irritation
H318	Causes serious eye damage
H361	Suspected of damaging fertility or the unborn child

GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P310	Immediately call a POISON CENTER or doctor/physician
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention
P332+P313	If skin irritation occurs: Get medical advice/attention
P405	Store locked up
P501	Dispose of contents/container in accordance with appropriate regulations.

Danger



Section 3 - Composition

Proprietary additive(s) listed only if considered hazardous per OSHA regulations, at a 1% or greater concentration (0.1% for carcinogens)

Chemical Name	CAS number	Weight Concentration %
Proprietary Engine Oil Additive	TS-134	5.00 - 10.00
Solvent-Dewaxed Heavy Paraffinic Distillate	64742-65-0	1.00 - 5.00
Hydrotreated light paraffinic distillate	64742-55-8	1.00 - 5.00
Automotive gear oil additive, mixture	TS-037	1.00 - 5.00
Severely Treated Base Oil	TS-056	1.00 - 5.00
Zinc alkyl dithiophosphate	113706-15-3	1.00 - 5.00

Section 4 - First Aid Measures

Inhalation:
Remove from further exposure. For those providing assistance, avoid exposure to yourself. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, a trained individual should attempt to resuscitate while getting immediate medical aid.
Eye Contact:
Flush eyes with water for at least 15 minutes. If irritation occurs, seek medical attention.
Skin Contact:
Prolonged or repeated contact may cause irritation. Good hygienic practices should be observed at all times. Wash exposed skin with soap and warm water.
Ingestion:
First aid is not normally required. Seek medical attention if discomfort occurs. Do not induce vomiting unless directed to do so by medical personnel.

Section 5 - Fire Fighting Measures

Flash Point: 221 C (430 F)

Extinguishing Media:
Carbon Dioxide (CO2), dry chemical or foam. Water can be used to cool and protect exposed material.
Unusual Fire Hazards:
Pressurized mists may form a flammable mixture.
Products of Combustion:
Fumes, smoke, COx, SOx, NOx, when combusted.
Fire Fighting Instructions:
Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Fire fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water supply to cool fire exposed surfaces and to protect personnel.

Section 6 - Accidental Release Measures

Notification Procedures:
In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material (which exceed the applicable reportable quantity) into the environment, or oil spills which could reach any waterway (including intermittent dry creeks). The National Response Center can be reached at 1-800-424-8802.

Spill Management:
Shut off source of leak if it is safe to do so. Dike and contain spill.
Small Spills:
While wearing suitable personal protective equipment (PPE), absorb spill with clay, sand or other suitable material . Place in a non-leaking container and seal tightly for proper disposal.
Large Spills:
Ventilate the contaminated area. Wearing suitable PPE, pump into salvage vessels. Dispose of collected material according to regulations.

Section 7 - Handling and Storage

Handling:
Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists of this product. Do not take internally. Use this product with adequate ventilation. Launder work clothes frequently.
Storage:
Keep properly labeled container tightly closed, and in a cool, well-ventilated place away from incompatible materials. Store away from heat, sparks and other ignition sources. Containers, even those have been emptied, can contain combustible vapors. Do not pressurize, cut, weld, drill or grind on or near containers. Do not reuse empty containers.

Section 8 - Exposure Controls / Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Proprietary Engine Oil Additive TS-134	Not Determined	TLV: 5 mg/m3 (mists and aerosols) STEL: 10 mg/m3 (mists and aerosols)	Not Determined
Solvent-Dewaxed Heavy Paraffinic Distillate 64742-65-0	PEL: 5 mg/m3	TLV: 5 mg/m3	Not Determined
Hydrotreated light paraffinic distillate 64742-55-8	TWA: 5 mg/m3 (Mist)	TWA: 5 mg/m3	Not Determined
Automotive gear oil additive, mixture TS-037	PEL: 5mg/m3	TWA: 5mg/m3	Not Determined
Severely Treated Base Oil TS-056	PEL: 5 mg/m3	TLV: 5 mg/m3 (inhalable fraction)	Not Determined
Zinc alkyl dithiophosphate 113706-15-3	Not Determined	Not Determined	Not Determined

Ventilation Control:
Provide adequate ventilation to control airborne concentrations below the exposure guidelines/limits.

Personal Protection:
As prescribed in the OSHA Standard for Personal Protective Equipment (29 CFR 1910.132), employers must perform a Hazard Assessment of all workplaces to determine the need for proper protective equipment for each employee .

Eye Protection:
Normal industrial eye protection practices should be employed.
Skin Protection:
In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.
Respiratory:
If airborne concentration limits are not met, a NIOSH approved respirator must be worn.
Contaminated Gear:
Soiled work clothing should be laundered or dry-cleaned.

Section 9 - Physical and Chemical Properties

Typical physical and chemical properties are given below. Consult the manufacturer in Section 1 for additional data.

Appearance:	Dark Green Liquid	**Odor:**	Characteristic
Vapor Pressure:	No Data Available	**Odor threshold:**	No Data Available
Vapor Density:	No Data Available	**pH:**	Not Applicable
Specific Gravity@60F	0.9	**Melting point:**	No Data Available
Freezing point:	No Data Available	**Solubility:**	Negligible Solubility in Water
Flash point:	430 F,221 C	**Evaporation rate:**	No Data Available
Flammability:	No Data Available	**Explosive Limits:**	No Data Available
Partition coefficient (n-octanol/water):	No Data Available	**Autoignition temperature:**	No Data Available
Decomposition temperature:	No Data Available	**Viscosity@100C**	18.6 cSt
Grams VOC less water:	No Data Available		

Section 10 - Stability and Reactivity

Stability:
Material is stable under normal conditions.

Conditions to Avoid:
Excessive heat. High energy sources of ignition.

Material to Avoid:
Strong oxidizers.

Hazardous Decomposition Products:
This material does not decompose at ambient temperatures.

Hazardous Polymerization:
Will not occur under normal circumstances.

Section 11 - Toxicological Information

Mixture Toxicity

Dermal Toxicity LD50: 2,999mg/kg
Inhalation Toxicity LC50: 9mg/L

Component Toxicity

TS-037 Automotive gear oil additive, mixture
Oral LD50: >2,000 mg/kg (Rats) Dermal LD50: >2,000 mg/kg (Rabbits)

If applicable, the ingredient(s) listed above are considered hazardous per OSHA 1910 .1200. Included are the corresponding LD50 ratings, if available. Hazardous ingredients are required to be listed if they are used in the final

product at a 1% (0.1% for carcinogens) or greater concentration.

Routes of Entry: Eye contact. Dermal contact. Inhalation.
Ingestion.

Target Organs: None Known

Section 12 - Ecological Information

Ecotoxicity:

No data available for this product.

Section 13 - Disposal Considerations

Disposal Instructions:

Refer to the latest US EPA, state and local regulations regarding proper disposal.

Section 14 - Transport Information

Agency	Proper Shipping Name	UN Number	Packing Group	Hazard Class
DOT	Not Regulated	N/A	N/A	N/A

Section 15 - Regulatory Information

Prepared according to US OSHA 29CFR 1910.1200 regulations.
Additional regulatory listings, where applicable.

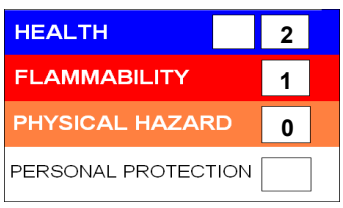
Toxic Substances Control Act (TSCA) Status:

All components are listed on the EPA/TSCA Inventory of Chemical Substances unless listed below.

- None

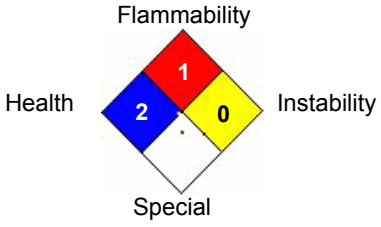
Section 16 - Other Information

Hazardous Material Information System (HMIS)



HMIS & NFPA Hazard Rating Legend
*** = Chronic Health Hazard**
0 = INSIGNIFICANT
1 = SLIGHT
2 = MODERATE
3 = HIGH

National Fire Protection Association (NFPA)



Date Prepared: 1/11/2016

Exmark Manufacturing has taken all reasonable steps to insure this data sheet and the information contained in it is accurate as of the date issued. No warranty is made as to the accuracy or completeness of the information in this data sheet. The information stated on this SDS applies only to the intended applications. Do not use this product for any application other than the intended application.

Employers are responsible for communicating any hazards and precautions described in this sheet.