

MATERIAL SAFETY DATA SHEET**Warren Unilube, Inc.**

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PRODUCT IDENTIFICATION

Trade Name: Coastal 303 Tractor Hydraulic Fluid Date Revised: July 28, 2008
 Synonyms/Product Code: N. A.
 Chemical Name: Petroleum Mineral Oil
 Family Description: A complex combination of hydrocarbons from a petroleum fraction obtained by solvent crystallization, solvent extraction or hydrogen treatment plus additives.
 DOT Hazard Class: Not Available

NFPA Codes: Health=1, Flammability=1, Reactivity=0

COMPOSITION

<u>Product</u>	<u>CAS Number</u>	<u>Wt%</u>	<u>Occupational Exposure Limits*</u>			<u>Units</u>
			<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Other</u>	
Coastal 303 Tractor Hydraulic Fluid	Mixture	100	N.A.	N.A.		

Ingredient(s):

Solvent Dewaxed Heavy Paraffinic Petroleum Distillate	64742-65-0	>45	5	5	10 STEL	mg/m ^{3**}
Solvent Extracted Light Naphthenic and/or Hydrotreated Heavy Petroleum Distillates	64741-97-5	N.A.	5	5	10 STEL	mg/m ^{3**}
Additives containing Zinc salt of dialkyl dithiophosphate (ZDDP), Magnesium salt of alkylated aryl detergent and copolymer of ethylene and propylene	64742-54-7	N.A.	5	5	10 STEL	mg/m ^{3**}
	68649-42-3	15	N.A.	N.A.		

* = 8-Hr. TWA unless otherwise specified. ** = As mineral oil mist
 STEL = Short Term Exposure Limit; 15 minutes N.A. = Not Available

PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point 760 mmHg:	N.A.	Melting Point:	N.A.
Vapor Pressure mmHg @ 100F:	N.A.	Vapor Density (air=1):	N.A.
Solubility in H ₂ O %:	Nil	pH:	N.A.
Specific Gravity (H ₂ O):	0.8872	Evaporation Rate:	N.A.
% Volatile by Volume:	N.A.	Odor:	Slight mineral odor
Viscosity (method,temp):	61.5 cSt @40C		
Appearance:	Clear to light yellow liquid		

N.A. = Not Available

This product has a concentration of DMSO extractables below 3.0 percent, when measured by method IP346.

FIRE AND EXPLOSION DATA

Flash Point:	395°F (Cleveland Open Cup)		
Flammable Limits in Air % by Vol.:	Lower: N.A.	Upper: N.A.	
Autoignition Temperature:	N.A.		
Extinguishing Media:	Dry chemical, foam, carbon dioxide, or water spray.		
Special Fire Fighting Procedure:	Water spray may be ineffective on flames but should be used to keep fire-exposed containers cool. Firefighters should wear self-contained breathing apparatus.		
Unusual Fire or Explosion Hazard:	May ignite when sufficient heat is applied.		

REACTIVITY DATA

Stability:	Stable		
Hazardous Polymerization:	Will not occur.		
Conditions to Avoid/Incompatibility:	Strong oxidizing agents, heat, spark, flame and build-up of static electricity.		
Hazardous Decomposition Products:	Hydrogen sulfide, alkyl mercaptans, carbon monoxide, carbon dioxide, aldehydes, ketones, and combustion products of sulfur and nitrogen.		

HEALTH HAZARD DATA

This product has not been tested as a whole to determine its specific health hazards. The information provided in this section is based on health hazard information on the product components.

Carcinogenicity: NTP: No	IARC Monographs: No	OSHA Regulated: No
Occupational Exposure Limits:	See <u>COMPOSITION</u> section.	

Effects of Overexposure:**Acute:****Eyes:**

The petroleum distillate fraction of this product may be irritating to the eyes. The additive containing a copolymer of ethylene and propylene is slightly irritating to the eye tissue. The additive containing ZDDP is an irritant and may injure eye tissue if not removed promptly.

Skin:

The heavy paraffinic petroleum distillate fraction of this product is believed to be minimally irritating. The lube oil additive component

may cause irritation. Exposure to hot lube oil additive may cause burns.

Inhalation: The inhalation hazards of this products components are negligible to minimally irritating if airborne concentrations are kept below permissible occupational exposure limits. If the additive containing ZDDP is heated above 155°F, hydrogen sulfide may be released which may lead to respiratory collapse, coma and death (without adequate warning odor).

Ingestion: Ingestion hazards range from practically non-toxic to minimally toxic for the components of this product. If vomiting occurs, product is an aspiration hazard.

Chronic: Frequent or prolonged contact may cause skin irritation. Animal studies indicate that excessive exposure to magnesium sulfonate, an additive component, may cause liver damage.

Additional Medical and Toxicological Information: May aggravate pre-existing dermatitis. The International Agency for Research on Cancer (IARC) has determined that there is sufficient evidence for the carcinogenicity in experimental animals of used oils. A ZDDP-mineral oil mixture, when applied to the skin of laboratory animals over a period of time, resulted in severe skin irritation and reproductive system effects.

EMERGENCY FIRST AID PROCEDURES

Eye Contact: Flush thoroughly with water for at least 15 minutes. Get medical attention.

Skin Contact: Remove contaminated clothing. Wash affected areas with soap and water. If irritation occurs, get medical help.

Inhalation: Remove to fresh air. Apply artificial respiration if not breathing. Get medical attention.

Ingestion: Do not induce vomiting. If spontaneous vomiting occurs hold the victim's head lower than hips to prevent aspiration.

SPECIAL PROTECTION INFORMATION

Eye Protection: Remove contact lenses and wear chemical safety goggles where contact with liquid or mist may occur.

Skin Protection: Wear impervious gloves when contact with skin may occur. Use face shields where splashing may occur.

Inhalation: Use approved respiratory protective equipment for cleaning large spills or entry into large tanks, vessels or other confined spaces or in situations where exposure may exceed occupational exposure levels.

Ventilation: Provide adequate ventilation to keep mist or vapors below occupational exposure levels.

SPILL OR LEAK AND DISPOSAL PROCEDURES

Waste Disposal:	Dispose through a licensed waste disposal company. Follow federal, state and local regulations.
Spill Procedures:	Remove sources of heat or ignition including internal combustion engines and power tools. Remove spill with vacuum trucks or pump and soak up residue with an absorbent. Use approved respirator where occupational exposure limits may be exceeded.

SPECIAL PRECAUTIONS AND COMMENTS

Storage Requirements:	Store in tightly closed containers in a dry, cool place, away from sources of heat, ignition or strong oxidizers. Ground and bond all transfer and storage equipment and equip with self closing valves, pressure vacuum bungs and flame arrestors.
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SARA TITLE III INFORMATION**Section 311/312 Hazard Categorization**

<u>Acute</u>	<u>Chronic</u>	<u>Fire</u>	<u>Pressure</u>	<u>Reactive</u>
	X			

SARA Hazardous Substances

<u>Ingredient</u>	<u>CAS No.</u>	<u>%, wt</u>	<u>Sec 313</u>	<u>Sec 302</u>	<u>RQ, lb</u>	<u>TPQ, lb</u>
Zinc Compounds	N.A.	<1.5	X			

Key: Sec 313 = Toxic Chemicals, Section 313
 Sec 302 = Extremely Hazardous Substances (EHS)
 RQ = Reportable Quantity of EHS
 TPQ = Threshold Planning Quantity of EHS

CALIFORNIA PROPOSITION 65 WARNING

Chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm may be found in the petroleum products. Although it is possible to sufficiently refine the petroleum products to remove the potential for cancer, we are advising that one or more of the listed chemicals may be present in some detectable quantities. Read and follow directions and use care when handling these petroleum products.

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