

MATERIAL SAFETY DATA SHEET

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PRODUCT IDENTIFICATION

Trade Name: MileGuard GF-4 Motor Oil (all grades, all containers)

Date Revised: July 28, 2008

**Synonyms/product Code: N.A.
Chemical Name: Petroleum Mineral Oil
Family Description: A complex combination of highly refined base oils plus additives.
DOT Hazard Class: Not Applicable**

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

COMPOSITION

Occupational Exposure Limits*

<u>Product</u>	<u>OSHA CAS Number</u>	<u>ACGIH Wt%</u>	<u>PEL</u>	<u>TLV</u>	<u>Other</u>	<u>Units</u>
MileGuard GF-4 Motor Oils All grades, all containers***	Mixture	100	N.A.	N.A.		

Ingredient(s):

Highly refined petroleum oils	Mixture	>85	5	5	10 STEL	mg/m ³ **
Additives containing Zinc salt of dialkyl- dithiophosphoric (ZDDP) acid and polymers	N.A.	<15	N.A.		N.A.	

* = 8-Hr. TWA unless otherwise specified.

** = As mineral oil Mist

*** = All ingredients in this product are listed in the T.S.C.A. Inventory.

N.A. = Not Available

STEL = Short Term Exposure Limit; 15 minutes.

PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point 760 mmHg:	N.A.	Melting Point: -30F
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):	0.88	Evaporation Rate (ethyl ether =1):
% Volatile by Volume:	N.A.	Odor: Slight hydrocarbon odor
Viscosity (method, temp):	N.A.	Appearance: Pale Liquid

N.A. = Not Available

FIRE AND EXPLOSION DATA

Flash Point:	410F	
Flammable Limits in Air % by Vol.	Lower: N.A.	Upper: N.A.
Autoignition Temperature:	>800F	
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, 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 highly refined petroleum oil fraction of this product is believed to be minimally irritating. The Zinc salt of dialkyl dithiophosphoric (ZDDP) acid is an eye irritant and may injure eye tissue if not removed promptly.

- Skin:** The highly refined petroleum oil fraction of this product is believed to be minimally irritating. The lube oil additive component of this product may cause irritation.
- Inhalation:** The inhalation hazards of this product's components are negligible to minimally irritating if airborne concentrations are kept below permissible occupational exposure limits.
- 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.

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 oil. 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

- 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 and absorbent. Use approved respirator where occupational exposure limits may be exceeded.

Waste Disposal: Dispose through a licensed waste disposal company. Follow federal, state and local regulation.

SPECIAL PRECAUTIONS AND COMMENTS

Storage Requirements: Store in tightly closed containers in an 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.

TRANSPORTATION INFORMATION

US DOT Information

Not regulated as a hazardous material

Hazard Class: Not classified

UN/UA#: Not classified

Packing Group: Not classified

Required Label (s): None

IMO/IMDG Shipping Description: Petroleum Lubricating Oil is not regulated as dangerous goods for transport.

ICA/IATA Shipping Description: Petroleum Lubricating Oil is not regulated as dangerous goods for transport.

International Transportation Regulations: Not regulated as dangerous goods.

SARA TITLE III INFORMATION

<u>Acute</u>	<u>Chronic</u>	<u>Fire</u>	<u>Pressure</u>	<u>Reactive</u>
X	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 Compound	N.A.	<1	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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