

*Amsoil
10W30 OIL*

Product Code: ATM
Effective Date: 10/15/93
Print Date: 09/05/95

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: AMSOIL INC., 925 Tower Avenue, Superior, WI 54880
Emergency Telephone Number: (800) 424-9300 CHEMTREC
Telephone Number for Information: (715) 392-7101

Product Name: SYNTHETIC SG/CD GASOLINE ENGINE OIL SAE 10W-30
(ATM) Chemical Name: SYNTHETIC HYDROCARBON BASED LUBRICATING FLUID

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	TLV	PEL	Apx. %
Zinc C1-C13 alkyldithio-phosphate	68649-42-3	N/A	N/A	0.5-1.5%

HMIS Ratings:	<u>HEALTH</u> 1	<u>FLAMMABILITY</u> 1	<u>REACTIVITY</u> 0
NFPA Ratings:	<u>HEALTH</u> 1	<u>FLAMMABILITY</u> 1	<u>REACTIVITY</u> 0

PRODUCT IDENTIFICATION NUMBER (HARMONIZED CODES): 381190 0000

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Causes eye irritation.
Causes inhalation irritation.

POTENTIAL HEALTH EFFECTS:

ACUTE EXPOSURE:

Eye Irritation: Eye irritant, based on data from components or similar material.

Skin Irritation: Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, defatting, and cracking of the skin.

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Respiration Irritation: Nose, throat, and lung irritant, based on data from components or similar materials. Exposure to a high concentration of vapor or mist is irritating to the respiratory tract. Breathing of vapor or mist may aggravate asthma and inflammatory or fibrotic pulmonary disease.

Oral Toxicity: The LD50 in rats is >5000 mg/kg, based on data from components or similar materials. Swallowing material may cause irritation of the gastrointestinal lining, nausea, vomiting, diarrhea, and abdominal pain.

Dermal Toxicity: No data available.

Inhalation Toxicity: High concentrations of hot vapors may cause headaches, dizziness, nausea, stupor, and other central nervous system effects.

Other: No other health hazards are known.

CHRONIC EXPOSURE:

Chronic Toxicity: No data available to indicate the product or its components in excess of 1% are chronic health hazards.

Other: No other health hazards are known.

4. FIRST AID MEASURES

EYE CONTACT: If splashed into the eyes, flush with clear water for 15 minutes. Get immediate medical attention.

SKIN CONTACT: Wash immediately with soap and water. Immediately remove contaminated clothing. Get medical attention if irritation persists. Launder contaminated clothing before reuse and discard shoes and other leather articles saturated with the material.

INGESTION: DO NOT INDUCE VOMITING. If conscious, give 2 glasses of water. Aspiration of material due to vomiting can cause chemical pneumonitis which can be fatal. Get immediate medical attention.

INHALATION: Remove exposed person to fresh air if adverse effects are observed. If breathing is labored, administer oxygen. If breathing has stopped, apply artificial respiration. If irritation persists or if toxic symptoms are observed, get medical attention.

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5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

Flash Point: 504 F (262 C) Method:
Upper Flammable Limit: Not determined
Lower Flammable Limit: Not determined
Autoignition Temperature: Not determined

Hazardous Combustion Products: Smoke, carbon monoxide, aldehydes and other products of incomplete combustion. Under combustion conditions, oxides of the following elements will be formed: Zinc, sulfur, phosphorous, nitrogen, and carbon.

Extinguishing Media: Carbon dioxide, dry chemical, alcohol foam. Water can be used to cool and protect exposed material. Water may cause spattering.

Fire Fighting Instructions: Recommend wearing self-contained breathing apparatus. Toxic fumes, gases, or vapors may evolve on burning. Container may rupture on heating.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Recover free product. Add sand, earth or other suitable absorbent to spill area.

LARGE SPILL: Isolate hazard area. Keep unnecessary and unprotected personnel from spill area. Personal protection equipment must be worn. Ventilate area if spilled in confined space or other poorly ventilated areas. Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Check under Transportation and Labeling (DOT/CERCLA) and Other Regulatory Information Sections (SARA) for hazardous substances to determine regulatory reporting requirements.

7. HANDLING AND STORAGE

HANDLING: Avoid contact with eyes, skin, or clothing. Wash hands after handling. Follow all MSDS/label precautions even after container is emptied because they may retain product residues.

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STORAGE: Keep away from heat or flame.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING CONTROLS: Good general ventilation should be sufficient to control vapors.

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANZI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

SKIN PROTECTION: Use chemical resistant gloves, such as Viton or Nitrile, to avoid prolonged or repeated skin contact.

EYE PROTECTION: Use splash goggles or face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

BOILING POINT: Not determined

FREEZING/MELTING POINT: -76 F (-60 C)

VAPOR PRESSURE: Less than 0.01 mm Hg @ 68 F (20 C)

VAPOR DENSITY: (Air = 1) Greater than 5

SOLUBILITY IN WATER: @ 1 Atm. and 77 F (25 C) Negligible

SPECIFIC GRAVITY (Water=1): 0.857

PERCENT VOLATILE BY VOLUME: Negligible from open container in 4 hours @ 100 F (38 C)

EVAPORATION RATE: Not determined

VISCOSITY: SAE 10W-30

pH: Essentially neutral

ODOR: Mild, bland hydrocarbon odor

APPEARANCE: Brown, transparent

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under moderately elevated temperatures and pressures.

INCOMPATIBILITY: Avoid contact with acids and oxidizing agents.

HAZARDOUS DECOMPOSITION OF PRODUCTS: None

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HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur

11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY: No data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard.

MUTAGENICITY: No data available to indicate any components present at greater than 0.1% may present a mutagenic hazard.

REPRODUCTIVE TOXICITY: No data available to indicate any components present at greater than 0.1% may present a reproductive hazard.

TERATOGENICITY: No data available to indicate any components present at greater than 0.1% may present a teratogenic hazard.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No data are available on the adverse effects of this material on the environment.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Material, if disposed, is not expected to be hazardous waste. Most areas now require drop-off disposal of used motor oils. Check with local, state and federal ordinances for proper reporting and disposal methods.

14. TRANSPORT INFORMATION

This product is not classified as hazardous material for DOT shipping.

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

OSHA: Zinc alkyl dithiophosphate and zinc compounds are considered hazardous if present in more than trace amounts.

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CERCLA: Not applicable.

SARA SECTION 313: 0.5-1.5% zinc compounds
0-0.1% zinc.

SARA EXTREMELY HAZARDOUS LIST: This product does not contain greater than .1% of any chemical substance on the SARA Extremely Hazardous Substances list.

TSCA INVENTORY: All components of this material are on the U.S. TSCA Inventory.

OTHER TSCA REG: None.

CALIFORNIA PROP 65: This product does not contain any chemical known to the State of California to cause cancer.

INTERNATIONAL REGULATIONS:

CANADA: All components are in compliance with the Canadian environmental Protection Act. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

JAPAN MITI: All components have MITI and MOL numbers in Japan.

AUSTRALIA: All components are in compliance with chemical notification requirements in Australia.

AUSTRIA: All components are in compliance with the Austrian Chemical Laws.

SWITZERLAND: All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.

16. OTHER INFORMATION

ATTENTION: THE CHEMTREC EMERGENCY NUMBER IS TO BE USED ONLY IN THE EVENT OF A CHEMICAL EMERGENCY INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT.

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