

**AMSOIL Material Safety Data Sheet**

Date Issued/Revised: February 26, 2009  
 Supersedes: February 21, 2006

**Section 1: Product and Company Identification**

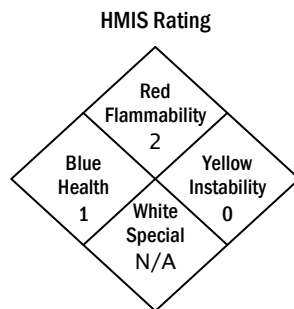
Manufacturer: AMSOIL, Inc. Telephone:  
 925 Tower Avenue CHEMTREC (Spill Emergency Only): 1-800-424-9300  
 Superior, WI 54880 Information: 715-392-7101

AMSOIL Product Code .....ATO  
 Product Label Name..... 100:1 SYNTHETIC 2-CYCLE OUTBOARD OIL  
 Product Use..... LUBRICATING OIL

**Section 2: Composition/Information on Ingredients**

This product is not formulated to contain ingredients that have exposure limits exceeding those established by US agencies.

\*See Section 8 for exposure limits.



**Section 3: Hazards Identification**

POTENTIAL HEALTH EFFECTS: Minor eye, inhalation and skin irritant.

\*See Section 11 for toxicological information

**Section 4: First Aid Measures**

- EYE: Flush with water for 15-20 minutes. Seek medical attention if irritation develops.
- SKIN: Wash immediately with soap and water. Remove contaminated clothing and launder before reuse. Discard shoes and leather articles saturated with the product. Obtain medical advice if irritation occurs.
- INHALATION: Remove exposed person to fresh air. If breathing is labored give oxygen. If breathing has stopped apply artificial respiration. Get immediate medical attention.
- INGESTION: DO NOT INDUCE VOMITING. If conscious, give 2 glasses of water. If vomiting does occur, keep head below hips to reduce risk of aspiration. Get immediate medical attention.

**Section 5: Fire Fighting Measures**

FLAMMABILITY PROPERTIES:

Flash Point ..... 248°F(120°C)  
 Method ..... COC ASTM D-92  
 LFL/UFL ..... Not Determined  
 Auto-ignition Temperature ..... Not Determined

- EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, alcohol foam and water fog.
- SPECIAL PROCEDURES: Water or foam may cause frothing. Use water to keep fire exposed surface cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water.
- PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

**Section 6: Accidental Release Measures**

Isolate spill area. Provide adequate ventilation. Wear appropriate personal protection. Recover free product for recycle and/or disposal. Add sand, earth or other suitable absorbent to spill area. Prevent entry into sewers and waterways. Check under Transportation and Labeling (DOT/CERCLA) and Other Regulator Information Section (SARA) for hazardous substances to determine regulatory reporting requirements for spill.

**Section 7: Handling and Storage**

**HANDLING:** Keep containers closed. Avoid contact with eyes, skin or clothing. Wash hands after handling. Empty container may retain product residue which may exhibit hazards of product.

**STORAGE:** Keep away from heat or flame.

**Section 8: Exposure Controls/Personal Protection**

**VENTILATION:** Use adequate general or local exhaust ventilation to keep airborne concentrations below exposure limits.

**RESPIRATORY:** Use a NIOSH approved respirator when necessary.

**SKIN:** Use Viton or Nitrile gloves to avoid prolonged or repeated skin contact.

**EYE:** Use splash goggles or face shield where splashing is expected or can occur.

**EXPOSURE LIMITS: The Threshold Limit Value (TLV) of 5 mg/m<sup>3</sup> is suggested for oil mist.**

**Section 9: Physical and Chemical Properties**

Physical State .....	Liquid
Boiling Point .....	Not Determined
Freezing/Melting Point .....	-27°F(-33°C)
Vapor Pressure .....	Not Determined
Vapor Density (Air=1).....	Negligible
Evaporation Rate .....	Not Determined
Specific Gravity (Water=1) .....	0.9106
Density, lb./gal. ....	7.583
Volatility (Volume) .....	Unknown
VOC .....	Unknown
pH.....	Not Determined
Coefficient of Water/Oil Distribution .....	Not Determined
Odor .....	Mild, Bland, Hydrocarbon Odor
Odor Threshold .....	Not Determined
Appearance.....	Green Transparent Colored Liquid
Viscosity, cSt @ 100°C.....	17.89
Viscosity, cSt @ 40°C.....	141.20
Viscosity Index .....	141

**Section 10: Stability and Reactivity**

**STABILITY:** Stable under moderately elevated temperatures and pressures.

**INCOMPATIBILITY:** Avoid contact with strong oxidants.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**HAZARDOUS DECOMPOSITION OF PRODUCT:** Toxic oxides of carbon, aldehydes and other products of incomplete combustion.

**Section 11: Toxicological Information**

**ACUTE EXPOSURE**

- Eye Irritation: Moderate to strong eye irritation. Based on data from components or similar material.
- Skin Irritation: Not expected to be a primary skin irritant. Based on data from components or similar material. 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.
- Respiratory Irritation: If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract similar to that observed with mineral oil. Based on data from components or similar materials. Under good industrial hygiene practices where all exposure limits are observed, respiratory irritation should not be a problem.

**CHRONIC EXPOSURE**

- Chronic Toxicity: No data available to indicate product present at greater than 1.0% are chronic health hazards.
- Carcinogenicity: No data available to indicate product present at greater than 0.1% are a carcinogenic hazard.
- Mutagenicity: No data available to indicate product present at greater than 1.0% present a mutagenic or genotoxic hazard.
- Reproductive Toxicity: No data available to indicate product present at greater than 1.0% present a reproductive hazard.
- Teratogenicity: No data available to indicate product present at greater than 1.0% present a teratogenic hazards.

**ADDITIONAL INFORMATION**

- Exposure Limits: Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter.

There are extensive toxicological data available on the various components of this product. An adequate representation of all these data is beyond the scope of this document. Please contact the AMSOIL Material Safety Data Sheet Coordinator for more detail.

**Section 12: Ecological Information**

No data available on the adverse effects of this product on the environment.

**Section 13: Disposal Considerations**

If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

**Section 14: Transport Information**

This product is not classified as hazardous material for DOT shipping. For further information relative to spills resulting from transportation incidents, refer to the latest DOT Emergency Response Guidebook for Hazardous Materials.

**Section 15: Regulatory Information**

U.S. Federal Regulations

- OSHA Table Z ..... Synthetic Base Stock (mist)
- TSCA ..... All Components Listed
- CERCLA 40 CFR 302.4 ..... Not Applicable
- SARA Title III
  - Section 302 Extremely Hazardous ..... Not Applicable
  - Section 311/312
    - Fire Hazard ..... Yes
    - Reactive Hazard ..... No
    - Release of Pressure ..... No
    - Acute Health Hazard ..... Yes
    - Chronic Health Hazard ..... No
  - Section 313 Toxic Chemical ..... Not Applicable

U.S. State Regulations

- California (Prop 65)
  - Does not contain chemicals known to the state of California to cause cancer.

International Regulations

- WHMIS ..... All components listed

**Section 16: Other Information**

The information and recommendations contained herein are, to the best of AMSOIL's knowledge and belief, accurate and reliable as of the date issued. AMSOIL makes no warranty or guarantee, expressed or implied, of their accuracy or reliability, and AMSOIL shall not be liable for any loss or damage based upon the criteria supplied by the developers of these rating systems, together with AMSOIL's interpretation of the available data.