

Updated on Jan. 11, 2001

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## Material Safety Data Sheet

US Department of Labor Compliance  
OSHA's Hazard Communications CFR 1910.1200

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**Product Identity: Warren Brake Fluid**

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**Manufacturers Name: Warren Oil Company, Inc.**  
PO Box 1507  
Dunn, NC 28335

**Emergency Assistance: Telephone (910) 892-6456**

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### **Section 1 – Ingredients**

Proprietary mixture of glycol ethers, polyglycols, glycols, oxidation inhibitors and corrosion inhibitors.

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### **SECTION 2 – PHYSICAL DATA**

**Boiling Point: 430 Deg. F, 221C minimum**  
**VAP Press: Low**  
**VAP Density: Not determined**  
**Sol. In Water: 1.03**  
**Appearance: Amber Liquid**  
**Odor: Mild Odor**

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### **SECTION 3 – FIRE AND EXPLOSION HAZARD DATA**

**Flash Point: 272 Deg., 133C**  
**Method Used: PMCC**  
**Flash Point Used by COC Is 280 Deg. F, 138 C**

**Flammable Limits: N/A**

**Extinguishing Media: Water fog, alcohol-resistant foam, CO2, dry chemical.**

**Fire & Explosion Hazards: Product will burn. Burning produces carbon dioxide, carbon monoxide and water.**

**Fire Fighting Equipment: Wear positive-pressure, self-contained breathing apparatus.**

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### **SECTION 4 – REACTIVITY DATA**

**Stability: Stable under normal storage conditions.**

**Incompatibility: Strong oxidizing materials**  
**Hazardous Polymerization: Will not occur.**

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**SECTION 5 – ENVIRONMENTAL AND DISPOSAL INFORMATION**

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**Action to take for spills/leaks: Do not allow to contaminate ground water. Soak up with suitable absorbent material and scoop into drums.**

**Disposal Method: Burn in an approved incinerator in accordance with local, state and federal requirements.**

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**SECTION 6 – HEALTH HAZARD DATA**

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**Eye: May cause moderate eye irritation. May cause moderate corneal injury.**

**Skin Contact: Prolonged or repeated exposure may cause skin irritation. May cause more severe response if skin is abraded (scratched or cut).**

**SKIN ABSORPTION: A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. The dermal LD50 has not been determined. Prolonged or repeated skin contact with large amounts of some of the ingredients of this information may cause drowsiness.**

**INGESTION: Single dose oral toxicity is low. The oral LD50 for rats is believed to be >2000 mg/kg. Amounts ingested incidental to industrial handling are not likely to cause injury; however, ingestion of larger amounts may cause injury.**

**INHALATION: Vapors are minimal due to physical properties; a single exposure is not likely to be hazardous.**

**SYSTEMIC & OTHER EFFECTS: No relevant information is available on the major components. The minor components in this formulation when tested separately (usually by ingestion) have caused kidney, liver, gastrointestinal, testicular and central nervous system effects; bladder stones; nausea and vomiting. Two minor components have been tested for carcinogenicity and pose no carcinogenic risk to man.**

**Minor components, when tested separately, have shown little or no birth defect risk for humans, although fetal toxicity has occurred in animal studies and one component caused birth defects in animals following ingestion of large doses. Some minor components, when tested separately, have been shown not to interfere with reproduction, although one these minor components was slightly toxic to the offspring of treated female rats/ Of the minor components tested for mutagenicity, only one has produced some positive results, along with negative in vitro (test tube) tests.**

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**SECTION 7 – FIRST AID**

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**EYES:** Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel.

**SKIN:** Wash off in flowing water or shower.

**INGESTION:** Induce vomiting if large amounts are ingested. Consult medical personnel.

**INHALATION:** Remove to fresh air if effects occur. Consult a physician.

**NOTE TO PHYSICIAN:** No specific antidote. Supportive care. Treatment based on judgement of the physician in response to reactions of the patient.

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**SECTION 8 HANDLING PROCEDURES**

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**EXPOSURE GUIDELINE:** There are no guidelines established for the principal components. One major component has an AIHA WEEL of 50 PPM; another has an ACGIH TLV of 100 PPM TWA and 150 PPM STEL, and an OSHA PEL of 100 PPM skin.

**VENTILATION:** Good general ventilation should be sufficient for most conditions.

**REPIRATORY PROTECTION:** When airborne exposure guideline and/or comfort levels may be exceeded, use an approved air-purifying respirator.

**SKIN PROTECTION:** For brief contact, no precautions other than clean body covering clothing should be needed. If hands are cut or scratched, use impervious gloves when prolonged or frequently repeated contact should occur.

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**SECTION 9 – ADDITIONAL INFORMATION**

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Special precautions to be taken in handling and storage. Practice reasonable care and personal cleanliness.

**NOTICE:** The information herein is presented in good faith and believed to be accurate as of the effective date shown below. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another. It is the buyer's responsibility to ensure that its activities comply with federal, state or provincial and local laws.