

MATERIAL SAFETY DATA SHEET

Warren Unilube, Inc.

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PRODUCT IDENTIFICATION

Trade Name: Carquest S. H. D. Brake Fluid (DOT 3, DOT 4)

Date Revised: March 2, 2004

Synonyms/product Code: N.A.

Chemical Name: N.A.

DOT Hazard Class: Not Applicable

NFPA Codes: Health=2, Flammability=1, Reactivity=0

COMPOSITION

Occupational Exposure Limits*

<u>Product</u>	<u>CAS Number</u>	<u>Wt%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Other</u>	<u>Units</u>
Carquest S. H. D. Brake Fluid (DOT 3, DOT 4)	Mixture	100	N.A.	N.A.		
Ingredient(s):						
Blend of various glycol ethers, glycol and polyglycol	N.A.-P	100	N.A.	N.A. N.A.		PPM

* = 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

N.A.-P = Information is claimed proprietary by supplier.

STEL = Short Term Exposure Limit; 15 minutes.

PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point 760 mmHg:	401F(DOT 3), 446F (DOT4)	Melting Point: N.A.
Vapor Pressure mmHg (@ 20C	<0.1	Vapor Density (air=1): N.A.
Solubility in H ₂ O %:	Soluble	pH: N.A.
Specific Gravity (H ₂ O):	1.02-1.04	Evaporation Rate (ethyl ether =1): N.A.
% Volatile by Volume:	N.A.	Odor: Mild ether odor
Viscosity (method, temp):	N.A.	Appearance: Clear Liquid

N.A. = Not Available

FIRE AND EXPLOSION DATA

Flash Point:	>200F	
Flammable Limits in Air % by Vol.	Lower: N.A.	Upper: N.A.
Autoignition Temperature:	N.A.	
Extinguishing Media:	Dry chemical, foam, carbon dioxide.	
Special Fire Fighting Procedure:	Water spray may be used to keep fire-exposed containers cool, preventing pressure build-up and explosion. 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:	Carbon monoxide, carbon dioxide, water and/or oxygenated hydrocarbons.

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: May cause severe eye irritation and chemical burns.
- Skin: Slightly irritating to the skin. Harmful amounts may be absorbed through the skin with extensive and prolonged contact.
- Inhalation: Exposure to vapors or mist may result in irritation of the respiratory tract, headache, drowsiness and dizziness. High concentrations of ethylene glycol ethers may be lethal.
- Ingestion: May cause irritation of the mouth, throat, and the respiratory tract, abdominal discomfort, dizziness, lumbar pain, CNS depression, kidney and liver damage.

Chronic: Prolonged or repeated skin contact may result in toxic amounts being absorbed through the skin.**Additional Medical and Toxicological Information:**

Persons with preexisting respiratory, liver, kidney, eye or skin diseases may be adversely affected by this product. Ethylene glycol and ethylene glycol ethers have produced dose-related teratogenic effects and maternal toxicity in laboratory animals. Exposure to vapors of ethylene glycol ethers have caused testicular atrophy in laboratory animals.

EMERGENCY FIRST AID PROCEDURES

- Eye Contact:** Flush thoroughly with large amounts of water for at least 15 minutes, including under the eyelids. Contact a physician immediately, preferably an Ophthalmologist. Speed and thoroughness in rinsing eyes are important to avoid permanent injury.
- Skin Contact:** Remove contaminated clothing. Wash affected areas with soap and water. If irritation occurs, get medical help. Discard contaminated shoes.
- Inhalation:** Remove to fresh air. Apply artificial respiration if not breathing. Get medical attention.
- Ingestion:** Never give anything by mouth to an unconscious or convulsing person. Have the affected person, if conscious, drink 1 to 2 glasses of water, then induce vomiting. Get immediate medical attention.

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. Wash with soap and water before eating, drinking or smoking. Launder contaminated clothing before reuse. Discard contaminated shoes.
- 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. Avoid inhalation of vapors or mists generated by heating or violent agitation of this product.
- Ventilation:** Provide adequate ventilation 1) to keep mist or vapors below occupational exposure levels, and 2) to prevent the formation of an oxygen deficient atmosphere, particularly in a confined space area.

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 incompatible materials or sources of heat, ignition or strong oxidizers. Ground and bond all transfer and storage equipment. Empty containers may contain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, puncture, incinerate, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks or other sources of ignition.

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>
Ethylene glycol	110-80-5	N.A.		X		
Glycol Ethers	Various	<75		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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