



## MATERIAL SAFETY DATA SHEET

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### SECTION I - SUPPLIER INFORMATION

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Product Name: Pitt Penn Premium DOT 4 Brake Fluid  
Product Number: 301307  
Bulk Stock Number: 022401

Chemical Name: Mixture  
CAS Number: Mixture

Supplier's Name & Address: Pitt Penn Oil Co.  
426 Freeport Road  
P.O. Box 296  
Creighton, PA 15030  
(724) 226-2712

Emergency Phone Number: Chem Tel, Inc. 1-800-255-3924 (24 hours)

Current Issue Date: August 27, 2003  
Date of Origination: April 14, 2000

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### SECTION II - HAZARDOUS INGREDIENT INFORMATION

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<u>Ingredient</u>	<u>CAS #</u>	<u>PEL/TLV</u>	<u>Wt. %</u>
Triethylene Glycol Monomethyl Borate Ether	68441-44-1	Not Determined	43 - 47
Triethylene Glycol Monoethyl Ether	112-35-6	Not Determined	20 - 30
Polyethylene Glycol Monomethyl Ether	9004-74-4	Not Determined	10 - 18
Diethylene Glycol	111-46-6	Not Determined	0 - 5
Tetraethylene Glycol	112-60-7	Not Determined	0 - 5
Triethylene Glycol Monobutyl Ether	143-22-6	Not Determined	2 - 4
Polyethylene Glycol	25322-68-3	Not Determined	0 - 2
Tetraethylene Glycol Monobutyl Ether	1559-34-8	Not Determined	1 - 2
Triethylene Glycol	112-27-6	Not Determined	0 - 2

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## HAZARDS OVERVIEW

Routes of Entry: Inhalation, eyes & skin, ingestion.  
Target Organs: Central nervous system, gastrointestinal tract, reproductive system.  
Irritancy: Skin and eyes.  
Sensitizing Capability: None known.  
Reproductive Effects: See Toxicology Section of the MSDS (Section X).  
Cancer Information: Not known to be carcinogenic.

## SHORT-TERM EXPOSURE (ACUTE)

Inhalation: Due to low vapor pressure, inhalation of vapor is unlikely except at elevated temperatures.  
Eyes: Irritating to eyes, causing pain, tearing and general inflammation. May cause reversible injury.  
Skin: May be absorbed in toxic amounts through the skin resulting in effects described under ingestion.  
Ingestion: Absorption through the gastrointestinal tract may produce central nervous system disturbances including headache, narcosis, dizziness, slurred speech and blurred vision.

## REPEATED EXPOSURE (CHRONIC):

Repeated inhalation or ingestion can lead to central nervous system and gastrointestinal disturbances and possible adverse reproductive effects..

Synergistic Materials: None known.  
Medical Conditions Aggravated by Exposure: None known.

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## SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

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Boiling Point: >450 ° F  
Vapor Pressure (mm Hg): Not determined  
Vapor Density (air=1): Not determined

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Solubility in Water:	Soluble
Appearance/Odor:	A yellow to amber liquid with typical glycol odor.
Specific Gravity (water=1)	1.06 at 60 ° F
Melting Point:	Not determined
Evaporation Rate (Butyl Acetate=1):	Not determined
Percent Volatile by Weight:	Not determined

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#### SECTION IV - FIRE AND EXPLOSION DATA

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Flash Point (method used):	>250 ° C (PMCC) (482 ° F)
Flammable Limits:	Not determined.
Extinguishing Media:	Water spray, dry chemical, alcohol, foam or CO <sup>2</sup> .
Special Fire Fighting Procedures:	Use NIOSH/OSHA approved self-contained breathing apparatus where this material is involved in a fire.
Unusual Fire and Explosion Hazards:	Not applicable.

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#### SECTION V - REACTIVITY DATA

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Solubility:	Stable
Hazardous Decomposition:	Will not occur
Conditions to Avoid:	Not applicable
Compatibility (materials to avoid):	Strong oxidizers
Hazardous Decomposition or By-Products:	Carbon dioxide/carbon monoxide

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#### SECTION VI - HEALTH HAZARD DATA/FIRST AID

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#### EMERGENCY AND FIRST AID PROCEDURES:

Ingestion:	<b>DO NOT INDUCE VOMITING!</b> Seek medical attention.
Eyes:	Rinse with water for at least 15 minutes. If irritation persists, seek medical attention.
Skin:	Flush with water and wash with soap.
Inhalation:	Remove to fresh air. If breathing stops administer mouth to mouth resuscitation. Seek medical attention.

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### SECTION VII - PRECAUTIONS FOR SAFE HANDLING

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Precautions to be Taken in Handling and Storage: The usual precautions pertaining to the handling of petroleum liquids must be observed. Store away from food stuffs.

Protection Against Fire and Explosion: Fires should be extinguished with water, powder extinguishants, or carbon dioxide. Large fires should be extinguished with alcohol-resistant foam or a water spray. All adjoining tanks must be kept cool with a spray of water.

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### SECTION VIII - SPECIAL PROTECTION AND CONTROL MEASURES

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Respiratory Protection (specify type): A NIOSH approved respirator for organic vapor should be worn if needed.

VENTILATION: Local Exhaust: If needed, control vapor at elevated temperatures.  
Mechanical: Recommended.  
Special: Not applicable.  
Other: Not applicable.

Protective Gloves: Impervious; such as rubber, neoprene or vinyl.

Eye Protection: Goggles with side shields or face shield.

Other Protective Clothing or Equipment: Protective footwear, have eyewash fountain nearby.

Work/Hygienic Practices: Usual

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### SECTION IX - HANDLING OF SPILLS AND LEAKS

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Procedures for Clean-up: Wear goggles, overalls, impervious gloves and boots. Add dry absorbent, shovel or sweep up. Place in an approved D.O.T. container and seal. Wash all contaminated clothes before use.

Waste Disposal Method: Dispose of contaminated product and materials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate Federal, State, and Local regulatory councils to ascertain proper disposal procedures. Do not flush into sewage system.

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SECTION X - TOXICOLOGICAL/ECOLOGICAL INFORMATION

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Triethylene Glycol Monobutyl Ether

Acute Oral LD50:	(rat)	6.7 g/kg
Acute Dermal LD50:	(rabbit)	3.5 g/kg
Primary Skin Irritation:	(rabbit)	mild
Primary Eye Irritation:	(rabbit)	severe

Triethylene Glycol Monomethyl Ether

Acute Oral LD50:	(rat)	11.8 g/kg
Acute Dermal LD50:	(rabbit)	7.4 g/kg
Primary Skin Irritation:	(rabbit, 24 hr)	mild

Diethylene Glycol

Acute Oral LD50:	(rat)	12,500 mg/kg
	(human)	1,000 mg/kg
Acute Dermal LD50:	(rabbit)	12,000 mg/kg
Acute Inhalation LCLo:	(mouse, 2 hr.)	130 mg/m <sup>3</sup>
Primary Skin Irritation:	(rabbit)	mild
Primary Eye Irritation:	(rabbit)	mild

Triethylene Glycol

Acute Oral LD50:	(rat)	17.0 g/kg
	(mouse)	18.5 g/kg
	(guinea pig)	14.6 g/kg
	(rabbit)	8.4 g/kg

Triethylene Glycol Monoethyl Borate Ether

Acute Oral LD50:	(rat)	> 5 g/kg
Acute Dermal LD50:	(rabbit)	> 2 g/kg
Acute Inhalation LC50:	(rat, 1 hr.)	200 mg/L

Tetraethylene Glycol

Acute Oral LD50:	(rat)	29 g/kg
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Acute Dermal LD50: (rabbit) >20 g/kg

Primary Skin Irritation: (rabbit) mild

Ecological Information: Contact Pitt Penn Oil Co. for a full report

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#### SECTION XI - TRANSPORTATION DATA

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D.O.T.: Not regulated

Reportable Quantity:

Freight Classification:

Special Transportation Notes:

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#### SECTION XII - REGULATORY INFORMATION

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All components listed on TSCA inventory.

SARA Title III: Immediate (Acute) and delayed (Chronic) health hazard

WHMIS (Canada) Hazard Class: D1A & D2A

HMIS Rating: Health - 2 Fire - 1 Reactivity - 0

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#### SECTION XIII - USER INFORMATION

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The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation, and verification. Buyer assumes all risk of use, storage and handling of the product in compliance with applicable Federal, State and Local laws and regulations.

Relating to any party's use of or reliance on information and data contained herein regardless of whether it is claimed that the information and data are inaccurate, incomplete or otherwise misleading, this information relates to the material designated and may not be valid for such material used in combination with any other materials or in any process.