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Material Safety Data Sheet (MSDS)

PRESTONE Heavy Duty Brake Fluid AS400, AS401

MATERIAL SAFETY DATA SHEET

Effective Date: 11-15-96

Revision Date: none

PRESTONE Heavy Duty Brake Fluid AS400, AS401

Code: PPC

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Section 1 - Product and Company Identification

PRODUCT NAME: PRESTONE Heavy Duty Brake Fluid AS400, AS401

MANUFACTURER'S NAME:
Prestone Products Corporation
39 Old Ridgebury Road
Danbury, CT 06810-5109

EMERGENCY TELEPHONE NUMBER
(203)830-7865

MISCELLANEOUS INFORMATION

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Section 2 - Hazardous Ingredients

HAZARDOUS COMPONENTS	CAS #	PERCENT	EXPOSURE LIMITS
Triethylene Glycol Monobutyl Ether	#143-22-6	0-70	None Established PEL None Established ACGIH TLV
Triethylene Glycol Monomethyl Ether	#112-35-6	0-30	None Establishe PEL None Established ACGIH TLV
Triethylene Glycol Monoethyl Ether	#112-50-5	0-70	None Established PEL None Established ACGIH TLV
Mixed Polyethylene Glycol	#25322-68-3	0-80	None Established PEL None Established ACGIH TLV
Tetraethylene Glycol Monobutyl Ether	#1559-34-8	0-80	None Established PEL None Established ACGIH TLV
Pentaethylene Glycol	#4792-15-8	0-80	None Established PEL None Established ACGIH TLV
Diethylene Glycol	#111-46-6	0-80	None Established PEL None Established ACGIH TLV
Polyethylene Glycol Monoethyl Ether	#27879-07-8	0-80	None Established PEL None Established ACGIH TLV
Tetraethylene Glycol	#112-60-7	0-80	None Established PEL None Established ACGIH TLV
Polyethylene Glycol	#9004-74-4	0-10	None Established PEL

Monomethyl Ether			None Established ACGIH TLV
Polyalkylene Glycol	#23783-42-8	0-10	None Established PEL
Monomethyl Ether			None Established ACGIH TLV
Polyalkylene Glycol	#9004-77-7	0-15	None Established PEL
Monobutyl Ether			None Established ACGIH TLV
Diethylene Glycol	#112-34-5	0-10	None Established PEL
Monobutyl Ether			None Established ACGIH TLV
Diethylene Glycol	#111-77-3	0-5	None Established PEL
Monomethyl Ether			None Established ACGIH TLV
Diethylene Glycol	#111-90-0	0-10	None Established PEL
Monoethyl Ether			None Established ACGIH TLV
Polyalkylene Glycol	#9038-95-3	0-10	None Established PEL
None Established ACGIH TLV			
Proprietary Additive Mixture		0-5	None Established PEL
None Established ACGIH TLV			

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Section 2 - Hazardous Ingredients - Continued

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Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Clear amber liquid with a mild odor. Eye contact may cause irritation or possible corneal injury. Prolonged skin contact may cause irritation. Breathing vapors or mists may cause mucous membrane irritation. Accidental or deliberate ingestion of this material may cause gastrointestinal disturbances including irritation, nausea, vomiting and diarrhea. Ingestion may cause central nervous system depression and kidney and liver damage. May cause chronic effects.

POTENTIAL HEALTH EFFECTS:

ACUTE HAZARDS:

Inhalation: High concentrations of vapors may cause respiratory irritation experienced as nasal discomfort and discharge.

Skin Contact: Prolonged or repeated exposure may cause skin irritation.

Dermal Toxicity: A single prolonged exposure is not likely to result in material being absorbed in harmful amounts. Prolonged or repeated skin exposure to very large amounts of some of the ingredients of this formulation may cause drowsiness.

Eye Contact: May cause moderate eye irritation and possible corneal damage.

Ingestion: Accidental ingestion of a small amount may cause gastrointestinal discomfort with nausea, vomiting and diarrhea. A large ingestion may produce central nervous system depression and kidney and liver damage, as well as acidosis.

Chronic Hazards: Prolonged or repeated skin contact with this product may possibly lead to irritation and dermatitis. Prolonged or repeated inhalation or ingestion may lead to central nervous system effects, gastrointestinal disturbances and possible adverse reproductive effects.

Medical Conditions Aggravated By Exposure: A knowledge of the available toxicology information of the physical and clinical properties of this material suggests that overexposure is unlikely to aggravate existing

medical conditions.

Carcinogen: None of the components is listed as a carcinogen or potential carcinogen by IARC, NTP or OSHA.

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Section 4 - First Aid Measures

INHALATION: Remove to fresh air if effects occur and seek medical attention.

SKIN CONTACT: Remove contaminated clothing. Wash all affected and exposed areas with soap and water. If skin irritation or redness develops or persists, seek medical attention.

EYE CONTACT: Exposed eyes should be immediately flushed with copious amounts of water using a steady stream for a minimum of 15 minutes. If irritation, pain, swelling or tearing develop, seek medical attention.

INGESTION: If swallowed, get immediate medical advice by calling a physician, Poison Control Center, or emergency room. If advice is not available, take victim and product container to the nearest emergency treatment center or hospital. do not attempt to give anything by mouth to an unconscious person.

NOTES TO PHYSICIAN: There is no specific antidote. Treatment should be directed at the control of symptoms and clinical conditions. Central nervous system depression and acidosis can occur. Consult your Poison Control Center.

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Section 5 - Firefighting Measures

FLASH POINT: 218-275 PMCC

AUTOIGNITION TEMPERATURE: Not Determined

FLAMMABILITY LIMITS: LEL: Not Determined UEL: Not Determined

EXTINGUISHING MEDIA: Use water fog, foam, alcohol foam, carbon dioxide or dry chemical. Cool fire exposed containers with water. A direct stream of water or foam may cause frothing.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.

UNUSUAL FIRE HAZARDS: None

HAZARDOUS COMBUSTION PRODUCTS: Burning may produce carbon monoxide, carbon dioxide, and nitrogen oxides.

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Section 6 - Environmental Release Measures

Wear appropriate protective clothing and equipment (See Section 8). Collect material with absorbent material and place in appropriate, labeled container for disposal.

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Section 7 - Handling and Storage

Avoid eye contact.

Avoid prolonged skin contact.

Wash exposed skin with soap and water after use.

Avoid breathing vapors and mists.

Use with adequate ventilation.

Wash exposed skin thoroughly with soap and water after use.

Keep away from excessive heat and open flames.

Do not add nitrites or other nitrosating agents. Nitrosamine, which may cause cancer, may be formed.

Keep container closed when not in use.

Store in a cool, dry area.

Empty containers retain product residue and may be hazardous. Do not cut, weld, drill, etc. containers, even empty. Do not reuse empty containers unless properly cleaned.

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Section 8 - Exposure Controls/Personal Protection

VENTILATION: General ventilation should be adequate for normal use. For operations where the product is heated or misted and exposures may be excessive, mechanical ventilation such as local exhaust may be needed to minimize exposure.

RESPIRATORY PROTECTION: None under normal use conditions. For operations where the TLV for oil mist may be exceeded, a NIOSH/MSHA approved respirator with an organic vapor cartridge and a dust/mist prefilter or supplied air respirator is recommended. Equipment selection depends on contaminant type and concentration. Select in accordance with 29 CFR 1910.134 and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

GLOVES: Chemical resistant gloves such as PVC coated gloves are recommended to prevent prolonged/repeated skin contact.

EYE PROTECTION: Splash proof goggles are recommended to prevent eye contact.

OTHER PROTECTIVE EQUIPMENT/CLOTHING: Protective clothing if needed to avoid prolonged/repeated skin contact. Suitable washing and eye flushing facilities should be available in the work area. Contaminated clothing should be removed and laundered or dry cleaned before re-use.

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Section 9 - Physical and Chemical Properties

APPEARANCE AND ODOR: Clear amber or yellow liquid, mild odor.

pH: 9.0-9.8

BOILING POINT (F): >430F

MELTING POINT (F): <-40F

SOLUBILITY IN WATER: 100%

PERCENT VOLATILE: Nil

SPECIFIC GRAVITY: 8.5-8.7 lbs/gal

VAPOR PRESSURE: <0.1 MMhg @ 68F

VAPOR DENSITY: >0.1

EVAPORATION RATE: <0.1

VISCOSITY: 1.5-2.1

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Section 10 - Stability and Reactivity

STABILITY: Stable

CONDITIONS TO AVOID: Contact with nitrites or other nitrosating agents may produce nitrosamine, a known animal carcinogen.

INCOMPATIBILITY: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: combustion will product carbon monoxide, carbon dioxide and nitrogen oxides.

HAZARDOUS POLYMERIZATION: Will not occur

No toxicity data available for this product at this time.

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Section 11 - Toxicological Information=====
Section 12 - Ecological Information

No ecotoxicity data is available for this product or its components at this time.

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Section 13 - Disposal Considerations

Recycle, incinerate, treat or landfill in accordance with all local, state/provincial and federal regulations.

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Section 14 - Transport Information

U.S. DOT HAZARD CLASSIFICATION

PROPER SHIPPING NAME:	Not regulated
TECHNICAL NAME:	N/A
UN NUMBER:	N/A
HAZARD CLASS/PACKING GROUP:	N/A
LABELS REQUIRED:	N/A

DOT MARINE POLLUTANTS: This product does not contain Marine Pollutants as defined in 49 CFR 171.8.

IMDG CODE SHIPPING CLASSIFICATION

DESCRIPTION: Not regulated

ID NUMBER:	N/A
HAZARD CLASS:	N/A
PACKING GROUP:	N/A
LABELS REQUIRED:	N/A
PLACARDS REQUIRED:	N/A

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Section 15 - Regulatory Information

EPA SARA 311/312 HAZARD CLASSIFICATION: Not applicable

EPA SARA 313 This Product Contains the Following Chemicals

Subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372):

Chemical Name	CAS #	Weight %
Ethylene Glycol	NA	85-90

PROTECTION OF STRATOSPHERIC OZONE: This product is not known to contain or to have been manufactured with ozone depleting substances as defined in 40 CFR Part 82, Appendix A to Subpart A.

CERCLA SECTION 103: This product is not subject to CERCLA reporting requirements, however, many state have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

CALIFORNIA PROPOSITION 65 - This product does not contain chemicals regulated under California Proposition 65.

EPA TSCA INVENTORY: All of the components of this material are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

CANADIAN ENVIRONMENTAL PROTECTION ACT: All of teh ingredients are listed on teh Canadian Domestic Substances List.

CANADIAN WHMIS CLASSIFICATION: Class D - Division 2 - Subdivision B - (Toxic material causing other chronic effects)

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Section 16 - Other Information

NFPA RATING (NFPA 704) - FIRE:1

HEALTH: 2

REACTIVITY: 0

This MSDS is directed to professional users and bulk handlers of the product. Consumer products are labeled in accordance with Federal Hazardous Substances Act regulations.

While Prestone Products Corporation believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of test conducted, the data are not to be taken as a warranty or representation for which Prestone Products Corporation assumes legal responsibility. They are offered for your consideration, investigation and verification. Any use of these data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

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