

### SECTION 1: IDENTIFICATION

MSDS ID: MSDS012

PRODUCT NAME: PRESTONE(R) High Performance DOT 4 Brake Fluid  
AS800, AS801  
Formula: 13436-22, 2046-96, 2054-44

MANUFACTURER: Honeywell Consumer Products Group  
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EMERGENCY PHONE NUMBER: CHEMTREC 1-800-424-9300 (in the US)  
CANUTEC (613)996-6666 (in Canada)

MSDS DATE OF PREPARATION/REVISION: 03/17/06

PRODUCT USE: Automobile brake fluid - consumer product

NFPA RATING (NFPA 704) - FIRE: 1  
HEALTH: 2  
REACTIVITY: 0

### SECTION 2: PRODUCT COMPONENTS

HAZARDOUS COMPONENTS	CAS	PERCENT
Mixture of glycol ethers, polyglycols, oxidation, inhibitors and corrosion inhibitors	Proprietary	100
Diethylene Glycol Butyl Ether	112-34-5	<10
Diethylene Glycol	111-46-6	<5

### SECTION 3: HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Clear, amber liquid with a mild odor. May cause eye, skin or respiratory irritation. May be absorbed through the skin in harmful amounts. Accidental or deliberate ingestion of this material may cause central nervous system effects including headache, dizziness, narcosis, blurred vision, nausea, vomiting and diarrhea. May cause adverse chronic effects.

### POTENTIAL HEALTH EFFECTS:

#### ACUTE HAZARDS:

**INHALATION:** High concentrations of vapors or mists may cause respiratory irritation experienced as nasal discomfort and discharge.

**SKIN CONTACT:** Contact may cause minor irritation with redness and itching. Prolonged or repeated exposure may cause drying and peeling of the skin. May cause skin sensitization in some individuals.

**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 may cause central nervous system effects.

**EYE CONTACT:** May cause eye irritation with pain, tearing and inflammation.

**INGESTION:** Accidental ingestion of a small amount may cause gastrointestinal discomfort with nausea, vomiting and diarrhea. Large amounts may cause central nervous system effects including headache, dizziness, narcosis, slurred speech and blurred vision.

**CHRONIC HAZARDS:** Prolonged or repeated skin contact with this product may possibly lead to irritation and dermatitis. Prolonged or repeated inhalation, ingestion or skin absorption may lead to central nervous system effects, gastrointestinal disturbances and possible adverse blood, kidney, liver and reproductive effects.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** May aggravate pre-existing skin, blood, kidney or liver disorders.

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

## **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 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

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: This product contains a small amount of diethylene glycol. It is estimated that the lethal oral dose of diethylene glycol in adults is 1.0-1.2 ml/kg. Diethylene glycol may cause an elevated anion-gap metabolic acidosis and renal tubular injury. Liver injury may occur, but not as severe as kidney injury. The signs and symptoms in diethylene glycol poisoning are those of metabolic acidosis, CNS depression and kidney injury. Urinalysis may show albuminuria, hematuria and oxaluria. The current medical management of diethylene glycol poisoning includes elimination of diethylene glycol, correction of metabolic acidosis and prevention of kidney injury. It is essential to have immediate and follow-up urinalysis and clinical chemistry. There should be particular emphasis on acid-base balance, and liver and kidney function tests. For severe and/or deteriorating cases, hemodialysis may be required. Dialysis should be considered for patients who have severe metabolic acidosis, or compromise of renal function. There is no conclusive evidence that ethanol treatment will be beneficial. Consult your poison control center.

### **SECTION 5: FIRE AND EXPLOSION DATA**

FLASH POINT: Greater than 250 F PMCC

AUTOIGNITION TEMPERATURE: Not Determined

FLAMMABILITY LIMITS: LEL: Not Determined UEL: Not Determined

NFPA Classification: Not Applicable

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: May form peroxides if in contact with air for long periods which can explode spontaneously or when heated.

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

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

labeled container for disposal.

### SECTION 7: HANDLING AND STORAGE

Avoid contact with eyes, skin and clothing.  
Wash exposed skin with soap and water after use.  
Avoid breathing vapors and mists.  
Use with adequate ventilation.  
Keep away from excessive heat and open flames.  
Keep containers closed when not in use.  
Do not add nitrites. This product contains amines which can combine with nitrites to form nitrosamines. Many nitrosamines have been found to cause cancer in laboratory animals.

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.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

HAZARDOUS COMPONENTS	EXPOSURE LIMIT/SOURCE
Mixture of glycol ethers, polyglycols, oxidation inhibitors and corrosion inhibitors	None Established PEL None Established ACGIH TLV
Diethylene Glycol Butyl Ether	35 ppm TWA Manufacturer
Diethylene Glycol	10 mg/m <sup>3</sup> TWA AIHA WEEL

**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 exposures may be excessive, 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.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Clear amber liquid, mild odor.

pH: Not determined	SPECIFIC GRAVITY: 1.05-1.06
BOILING POINT (F): >392 F	VAPOR PRESSURE: Not determined
FREEZING POINT (F): Not determined	VAPOR DENSITY: Not determined
SOLUBILITY IN WATER: <0.5%	EVAPORATION RATE: Not determined
PERCENT VOLATILE: 100%	VISCOSITY: Not determined
COEFFICIENT OF WATER/OIL DISTRIBUTION: Not determined	

### SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: None known.

INCOMPATIBILITY: Avoid strong oxidizing agents and strong acids.

This product may contain amines which can combine with nitrites to form nitrosamines. Many nitrosamines have been found to cause cancer in laboratory animals.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion will product carbon monoxide, carbon dioxide and nitrogen oxides. May form peroxides if in contact with air for long periods and can explode spontaneously when heated.

HAZARDOUS POLYMERIZATION: Will not occur.

### SECTION 11: TOXICOLOGICAL INFORMATION

Product: LD50 Oral Rat: >5,000 mg/kg

LD50 Dermal Rabbit: >2,000 mg/kg

Diethylene Glycol: Oral rat LD50: 12565 mg/kg

Skin rabbit LD50: 11890 mg/kg

Diethylene Glycol Butyl Ether: Oral rat LD50: 5080 mg/kg

Skin rabbit LD50: 2764 mg/kg

### SECTION 12: ECOLOGICAL INFORMATION

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

### SECTION 13: DISPOSAL INFORMATION

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

### 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

### CANADIAN TDG CLASSIFICATION

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

## SECTION 15: REGULATORY INFORMATION

EPA SARA 311/312 HAZARD CLASSIFICATION: Acute health, chronic health

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%
Glycol Ethers	NA	<60

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 states 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.

## **SECTION 16: OTHER INFORMATION**

### REVISION SUMMARY:

Section 2: Components, moved exposure limits to Section 8  
Section 9: Solubility and Boiling Point  
Section 11: Added toxicity data  
Section 15: SARA 313

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 tests 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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