



## MATERIAL SAFETY DATA SHEET

**Product Code:**

**Product Name:** EXP 600 PLUS SUPER HI-TEMP RACING BRAKE FLUID

**Effective Date:** 13 Nov 1998

**Publication Date:** 13 Mar 2001

### 1. **INGREDIENTS:** (Concentration by weight)

Borate esters of polyalkylglycolalkylethers - 99%

Monoethanolamine - 1%

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not "Hazardous" per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

### 2. **PHYSICAL DATA:**

PHYSICAL STATE:	Liquid
COLOR:	Water-white pale straw colored
ODOR:	Faint ethereal
DRY BOILING POINT (ERBP):	554°F - 626°F at 1013 hPa
WET BOILING POINT (ERBP):	392°F
SPECIFIC GRAVITY:	(H <sub>2</sub> O = 1): 1.070 1.090 at 68/68°F
KINEMATIC VISCOSITY AT -104°F:	Max 1,800 cs
SOL. IN WATER:	Miscible
pH AS SUPPLIED:	7 - 8 at 68°F

### 3. **FIRE AND EXPLOSION HAZARD DATA:**

FLASH POINT: >239°F  
METHOD USED: Closed cup

FLAMMABLE LIMITS: LFL: Not determined  
UFL: Not determined

EXTINGUISHING MEDIA: Water spray, dry powder, carbon dioxide or polar resistant foam

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known

FIRE-FIGHTING EQUIPMENT: Use self-contained breathing apparatus when fighting in enclosed areas.

**Product Code:****Product Name:** EXP 600 PLUS SUPER HI-TEMP RACING BRAKE FLUID**4 REACTIVITY DATA:**

STABILITY: (CONDITIONS TO AVOID) Stable under normal storage conditions.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) None known.

HAZARDOUS COMBUSTION PRODUCTS: Not determined.

HAZARDOUS POLYMERIZATION: Will not occur.

**5. ENVIRONMENTAL AND DISPOSAL INFORMATION:**

ACTION TO TAKE FOR SPILLS/LEAKS: Do not allow to contaminate groundwater. Soak up with suitable commercial waste absorbent material and scoop into drums for disposal. Avoid runoff to sewers or natural waters.

DISPOSAL METHOD: Dispose of in accordance with local, state and federal requirements.

DEGRADABILITY: The product is expected to be substantially biodegradable in water.

ECOTOXICITY: Liquid with low volatility. The product is soluble in water. Low toxicity to aquatic organisms.

Aquatic toxicity LC50: Rainbow trout, 96-hr: (static) &gt;100.

Bacterial inhibition IC50: Pseudomonas putida, 6-hr: &gt;100

**6. HEALTH HAZARD DATA:**

EYE: May cause mild eye irritation. May cause very slight transient (temporary) corneal injury.

SKIN CONTACT: Prolonged or repeated exposure may cause skin irritation.

SKIN ABSORPTION: A single prolonged exposure is not likely to result in the material being absorbed through the skin in harmful amounts. The LD50 for skin absorption in rabbits is &gt;2000 mg/kg.

INGESTION: Single dose oral toxicity is low. The oral LD50 for female rats is 4300-5670 mg/kg. Amounts ingested incidental to industrial handling are not likely to cause injury; however, ingestion of larger amounts may cause injury.

INHALATION: Single exposure to vapors is not likely to be hazardous.

TOXICOLOGICAL INFORMATION: No relevant information to human health hazard evaluation is currently available.

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**EYES:** Irrigate with eye wash solution or flowing clean water, holding the eyelids apart, immediately and continuously for 15 minutes. Consult medical personnel.

**SKIN:** Wash off with soap in flowing water or shower. Remove contaminated clothing and wash before reuse. If symptoms develop, obtain medical attention.

**INGESTION:** Do not induce vomiting. Wash out mouth with water and give half a pint of water to drink. Consult medical personnel.

**INHALATION:** Remove patient from exposure, keep warm and at rest. Consult a physician if ill effects occur.

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

**8 HANDLING PRECAUTIONS:**

**EXPOSURE GUIDELINE(S):** Avoid prolonged or repeated contact with skin. Avoid contact with eyes.

**EXPOSURE LIMITS:** Monoethanolamine (CAS # 141-43-5)

3 ppm TWA8 - OSHA & ACGIH

6 ppm STEL - OSHA & ACGIH

7.5 mg/m<sup>3</sup> TWA8 ACGIH

8 mg/m<sup>3</sup> TWA8 OSHA

15 mg/m<sup>3</sup> STEL ACGIH & OSHA

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

**RESPIRATION PROTECTION:** If respiratory irritation is experienced, use an approved air-purifying respirator.

**SKIN PROTECTION:** For brief contact, no precautions other than clean body-covering clothing should be needed. Use impervious gloves when prolonged or frequently repeated contact could occur.

**EYE PROTECTION:** Use safety glasses.

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**9. ADDITIONAL INFORMATION:**

**SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:**

Practice reasonable care and personal cleanliness.

MSDS STATUS:

**REGULATORY INFORMATION:**

(Not meant to be all-inclusive; selected regulations represented).

**NOTICE:**

The information herein is presented in good faith and believed to be accurate as of the effective date shown on the first page of this document. 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. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See MSD Sheet for health and safety information.

**U.S. REGULATIONS:**

**SARA HAZARD CATEGORY:**

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title 111) and is considered, under application definitions, to meet the following categories:

An immediate health hazard.