

# MATERIAL SAFETY DATA SHEET

Trade Name: Johnsen's Racing DOT 4 Brake Fluid  
MSDS NO. 2213  
Revision Date: 02/04/2008  
Date Printed: 12/30/2008

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Johnsen's Racing DOT 4 Brake Fluid  
Chemical Family: MIXTURE  
Synonyms: None  
Emergency Telephone (24 hr.): CHEMTREC 1-800-424-9300

Supplier: Technical Chemical Company, P.O. Box 139, Cleburne, Texas 76033

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	OSHA TWA	OSHA STEL	OSHA SKIN
Borate Esters of Polyalkylglycolalkylethers Blend	95-100	Not Listed	Not Listed	Not Listed

Component	Weight %	OSHA Z PEL	OSHA Z TWA	OSHA Z Ceiling
Borate Esters of Polyalkylglycolalkylethers Blend	95-100	Not Listed	Not Listed	Not Listed

Component	ACGIH TLV TWA	ACGIH TLV STEL	ACGIH TLV Ceiling
Borate Esters of Polyalkylglycolalkylethers Blend	Not Listed	Not Listed	Not Listed

## 3. HAZARDS IDENTIFICATION

## 4. FIRST AID MEASURES

**Eye Contact:** May cause mild eye irritation. Flush immediately with plenty of water. Get medical attention if irritation occurs.  
**Ingestion:** Low oral toxicity. If swallowed, give at least 3-4 glasses of water, but do not induce vomiting. Do not give anything by mouth to an unconscious or convulsing person. Get medical attention.  
**Inhalation:** Unlikely to be hazardous by inhalation. Remove from source of exposure. Seek immediate medical attention.  
**Skin Contact:** Repeated and/or prolonged contact may cause irritation. Wash with soap and water.

## 5. FIRE FIGHTING MEASURES

### Flammable Properties

**Flash Point °F(°C):** >115 C  
**Flash Point Method:** TAG Closed Cup  
**Flammable Limits in Air - Lower (%):** Not Determined  
**Flammable Limits in Air - Upper (%):** Not Determined  
**Autoignition Temperature °F(°C):** Not Determined  
**Extinguishing Media:** Water mist Dry chemical. Carbon dioxide. Foam.  
**Protection Of Fire-Fighters:**

**Special Fire-Fighting Procedures:** Wear approved positive-pressure self-contained breathing apparatus and protective clothing.  
**Hazardous Combustion Products:** Not determined.  
**Aerosol Comments:** Not Applicable

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## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Wear appropriate protective clothing and equipment to prevent skin and eye contact.  
**Spill Procedures:** Sweep or scrape up material and place in a suitable clean, dry container for disposal by approved methods.  
**Action to be taken if material is released or spilled:** Recover free product. Add sand, earth, or other suitable absorbent to spill area. Minimize skin contact. Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses, or extensive land areas. Assure conformity with applicable governmental regulations.  
**Environmental Precautions:** Keep away from drains.

## 7. HANDLING AND STORAGE

**Handling and Storage:** Avoid contact with skin and eyes. Use ground strap. Use only in a well ventilated area.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Exhaust ventilation.  
**Eyes:** Wear safety glasses or goggles to protect against exposure.  
**Skin Protection:** Avoid prolonged contact.  
**Respiratory Protection:** Use in a well ventilated area.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Colorless to light yellow liquid  
**Odor:** ETHEREAL  
**pH Value:** Not Determined  
**Vapor Pressure:** Not Determined  
**Vapor Density (Air=1):** Not Determined  
**Boiling Point (°F):** Not determined.  
**Melting/Freezing Point:** Not determined.  
**Solubility in Water:** MISCIBLE  
**Bulk Density at 20°C:** Not Determined  
**Molecular Weight:** Mixture  
**Specific Gravity (H20=1):** 1.070 - 1.090 @ 20/20 C  
**Viscosity:** Not determined.  
**Evaporation Rate:** Not Determined  
**VOC Content(%):** Not determined.  
**Decomposition Temperature:** Not Known

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** STABLE.  
**Conditions to Avoid:** None anticipated  
**Materials to Avoid:** None known  
**Hazardous Decomposition Products:** Carbon monoxide.  
**Hazardous Polymerization:** WILL NOT OCCUR

## 11. TOXICOLOGICAL INFORMATION

Toxicological Data:

Component	Route	Species	Dose
Borate Esters of Polyalkylglycolalkylethers Blend	Inhalation	Rats	Not known.

**Carcinogenicity:**

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Component	IARC	NTP	OSHA
Borate Esters of Polyalkylglycolalkylethers Blend	Not Listed	Not Listed	Not Listed

## 12. ECOLOGICAL INFORMATION

## 13. DISPOSAL CONSIDERATION

Waste Classification: Not determined.  
 Waste Management: Not determined.  
 Disposal Method: Disposal should be made in accordance with federal, state and local regulations.

## 14. TRANSPORTATION INFORMATION

U.S. DOT:  
 Proper Shipping Name: Not Regulated  
 Hazard Class: Not Applicable  
 UN/NA Number: Not Applicable  
 DOT Packing Group: Not Applicable

IMDG:  
 Proper Shipping Name: Not Applicable  
 Hazard Class: Not Applicable  
 Hazard Subclass: Not determined.  
 UN No.: Not determined.  
 Packing Group: Not determined.  
 Marine Pollutant: Not determined.

## 15. REGULATORY INFORMATION

**US Federal Regulations:**

Component	SARA 313	SARA 302	TPQ	RQ
Borate Esters of Polyalkylglycolalkylethers Blend	Not Listed	Not Listed	Not Listed	Not Listed

SARA 311/312 Hazard Categories: Not Determined.

**State Regulations:**

Component	California Prop. 65 Cancer list	California - Prop 65 Developmental Toxicity	California Prop. 65 Reproductive Female	California Prop. 65 Reproductive Male
Borate Esters of Polyalkylglycolalkylethers Blend	Not Listed	Not Listed	Not Listed	Not Listed

U.S. TSCA: One or more components of this product is not listed on the TSCA Inventory.  
 Canadian Inventory: One or more components of this product is not listed on the Canadian DSL or NDSL Inventory.

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### Consumer Product Safety Improvement Act of 2008 General Conformity Certification

The Supplier identified in Section 1 of this MSDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product container.

## 16. OTHER INFORMATION

**General Notes:**  
**Disclaimer:**

Do not allow undiluted material or large quantities to reach groundwater, bodies of water or sewer system. The information and recommendations contained herein are based upon tests believed to be reliable. However, the manufacturer/distributor of this product does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. The manufacturer/distributor assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.