



Material Safety Data Sheet

WHMIS (Pictograms)	WHMIS (Classification)	Personal Protective Equipment
	Class D-2B: Material causing other toxic effects (TOXIC).	

Section 1. Product and Company Identification

Product Name / Trade name	Brake Fluid DOT 4	Associated Product's Item Code	35-823CQ
Synonym	Not available.	CAS #	Mixture.
Chemical Family	Not available.	Validation Date	July 09 2004
Chemical Formula	Not applicable.	Print Date	July 09 2004
Manufacturer	Recochem inc. 850 Montée de Liesse Montréal (Québec) (514) 341-3550 www.recochem.com	In Case of Emergency	Recochem Inc. Communications and Regulatory Affairs Department (905) 791-1788
Material Uses	Consumer products: Brake Fluid.		

Section 2. Hazardous Ingredients

Name	CAS #	% by Weight	Exposure Limits	
			Canadian Values (ACGIH)	U.S. Values (OSHA)
Triethylene glycol monobutyl ether	143-22-6	10-40	Not available.	Triethylene glycol monobutyl ether Not available.
Polyethylene glycol butyl ether	9004-77-7	10-20	Not available.	Polyethylene glycol butyl ether Not available.

Section 3. Hazard Identification

Emergency Overview	MAY CAUSE EYE AND SKIN IRRITATION. May cause fetotoxic effects based on animal studies on one or more components. No human effects known.
Potential Acute Health Effects	See Section #11: "Toxicological Information" for further human health effects. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant). May cause corneal injury.
Note to Physician	No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reaction of the patient.

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**Section 4. First Aid Measures**

Eye Contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin Contact	Wash with soap and water. Get medical attention if irritation develops. Wash contaminated clothing before reusing.
Inhalation	Allow the victim to rest in a well-ventilated area.
Ingestion	Do not induce vomiting. Seek medical attention.

Section 5. Fire Fighting Measures

Products of Combustion	These products are carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂ ...).
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Fire Hazards	Not considered to be flammable.
Explosion Hazards	Not considered as a product presenting risks of explosion.

Section 6. Accidental Release Measures

Small Spill and Leak	Mop up, or absorb with an inert DRY material and place in an appropriate waste disposal container.
Large Spill and Leak	Absorb with an inert material and put the spilled material in an appropriate waste disposal. Dispose of in accordance with regional regulations.

Section 7. Handling and Storage

Handling	Avoid contact with eyes. Wash thoroughly after handling.
Storage	See Section #10 for applicable incompatible materials. Keep container tightly closed. Keep container in a cool, well-ventilated area. Contains moisture sensitive material; store in a dry place.

Section 8. Exposure Controls, Personal Protection

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Personal Protection	
Eyes	Splash goggles.
Body	No special protective clothing is required.
Respiratory	No special protective clothing is required.
Hands	Gloves (impervious).

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Section 9. Physical and Chemical Properties

Physical State and Appearance	Slightly viscous liquid.	Odour	Slight.
Molecular Weight	Not applicable.	Taste	Not available.
pH (1% Soln/Water)	7 [Neutral.]	Colour	Colorless to amber. (Light.)
Boiling/Condensation Point	248°C (478.4°F)	Volatility	Not available.
Melting/Freezing Point	Not available.	Evaporation Rate	Not available.
Specific Gravity	1.03 (Water = 1)	Odour Threshold	Not available.
Vapour Pressure	Low.	Viscosity	Dynamic: 1456 cP
Vapour Density	Not available.	Solubility	Easily soluble in cold water, hot water, diethyl ether.
VOC Content	0 (g/l).	Other Properties	Not available.
The Product is:	May be combustible at high temperature.		
Auto-ignition Temperature	Not available.		
Flash Point	Closed cup: 133°C (271.4°F). (Pensky-Martens.)		
Flammable Limits	Not available.		
Fire Hazards in Presence of Various Substances	Not considered to be flammable.		

Section 10. Stability and Reactivity

Stability	The product is stable.
Conditions of Instability	Not available.
Incompatibility with Various Substances	Reactive with oxidizing agents.

Section 11. Toxicological Information

Routes of Entry	Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): >2000 mg/kg [Rat].
Acute Effects on Humans	
Eyes	Hazardous in case of eye contact (irritant).
Skin	Slightly hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
Inhalation	Vapours are unlikely due to physical properties. Unlikely to be inhaled because of physical characteristics.
Ingestion	Single dose oral toxicity is considered to be extremely low. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury.

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**Chronic Effects on Humans**

Slightly hazardous in case of skin contact (irritant), of eye contact (irritant).
CARCINOGENIC EFFECTS: Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Fetotoxic in mice at levels below maternal toxicity.
DEVELOPMENTAL TOXICITY: Not available.

Section 12. Ecological Information**Ecotoxicity**

For accidental discharges into environment, see Section #6: "Accidental Release Measures" for suggested instructions.

Practically non-toxic to aquatic organisms.

Section 13. Disposal Considerations**Waste Information**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14. Transport Information**Canada Transportation of Dangerous Goods (TDG) Information**

Primary Class - Not a TDG controlled material.

Subsidiary Class (if applicable) -

Proper shipping name -

Hazard Identification Not regulated.

Number

Packing Group -

Special Provisions

No placard (Shipping and Hazard label) required.

International Maritime Dangerous Goods (IMDG) Transportation Information

Primary Class - Not controlled under IMDG.

Subsidiary Class (if applicable) -

Proper shipping name -

Hazard Identification Not regulated.

Number

Packing Group -

Marine Pollutant Not pollutant.

Special Provisions -

No placard (Shipping and Hazard label) required.

No placard (Shipping and Hazard label) required.

United States Department of Transportation (DOT) Information

Primary Class - Not a DOT controlled material (United States).

Subsidiary class (if applicable) -

Proper shipping name -

Hazard Identification Not regulated.

Number

Packing Group -

No placard (Shipping and Hazard label) required.

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**Special Provisions****International Air Transport Association (IATA)**

For air shipment classification and associated regulations, please refer to the latest edition of IATA Dangerous Goods Regulations.

Section 15. Other Regulatory Information and Pictograms**WHMIS Classification (Canada)**

Class D-2B: Material causing other toxic effects (TOXIC).

Canada Domestic Substances List (DSL) Status

This product and/ or all of its components are on the DSL.

HCS Classification (U.S.A.)

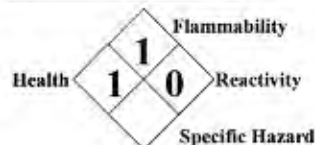
Toxic material

U.S.A. Regulatory Lists

This product and/ or all of its components are on the TSCA inventory list.

Hazardous Material Information System (U.S.A.)

Health	1
Flammability	1
Reactivity	0
Personal Protection	B

National Fire Protection Association (U.S.A.)**Section 16. Other Information**

Validated and verified by Compliance and Technical Information Manager on July 09 2004

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Notice to Reader

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MSDS are available at www.recochem.com