

**MATERIAL SAFETY DATA SHEET**MSDS No. 108740
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Honda DOT4 Brake Fluid B018**Honda DOT4 Brake Fluid B018**Emergency Number : General Information :
Chemtrec : 800/424-9300 CCI : 630/739-0606**SECTION I - IDENTIFICATION**Product : Honda DOT4 Brake Fluid B018

Synonyms : None
Chemical Family : Mixture of glycols, glycol ethers and additives
Formula : Not applicable/Mixture
Use Description : Brake fluid
OSHA Hazard Classification : Mild skin, eye and mucous membrane irritant
CAS No. : Mixture - no single CAS number applicable**SECTION II - INGREDIENTS**

Product Composition

Descriptive Name :	Glycol ether
CAS Number :	Proprietary - See Section XII
Percentage	Proprietary - See Section XII
Hazardous Per 29 CFR 1910.1200 :	Yes
Exposure Standards :	None established
Descriptive Name :	Glycol derivative
CAS Number :	Proprietary - See Section XII
Percentage	Proprietary - See Section XII
Hazardous Per 29 CFR 1910.1200:	Yes
Exposure Standards :	None established
Descriptive Name :	Glycol ether borate ester
CAS Number :	Proprietary - See Section XII
Percentage	Proprietary - See Section XII
Hazardous Per 29 CFR 1910.1200:	Yes
Exposure Standards :	None established

SECTION III - HEALTH INFORMATION

Glycol ether

- Inhalation : Inhalation of vapors/mists may cause respiratory irritation.
- Ingestion : Ingestion may cause gastrointestinal discomfort with any or all of the following symptoms: nausea, vomiting, lethargy or diarrhea.
- Eye Contact : It may cause moderate to severe eye irritation. Effects on eye irritations are reversible.
- Skin Contact : If significant quantities of this mixture come into contact with the skin, it may cause mild irritation consisting of transient redness.
- Chronic effects : Repeated or prolonged contact may cause skin irritation. May cause dermatitis by defatting the skin from prolonged or repeat contact.

Glycol derivative

- Inhalation : May produce symptoms of central nervous system depression including headache, dizziness, nausea, euphoria, loss of equilibrium, drowsiness, visual disturbances, fatigue, unconsciousness and respiratory arrest. Can cause pulmonary edema if aspirated into lungs
- Ingestion : Central nervous system symptoms similar to those by inhalation, followed by rapid breathing, increased heart rate, possible toxicity to the kidneys, decreased urine volume and severe metabolic acidosis.
- Eye Contact : May be irritating to the eyes
- Skin Contact : In severe overexposure enough material might be absorbed into the skin to cause systemic injury.
- Chronic effects : Prolonged or repeated inhalation or ingestion may result in kidney and liver changes. May produce symptoms of central nervous depression including headache, dizziness, nausea, euphoria, loss of equilibrium, drowsiness, visual disturbances, fatigue and respiratory arrest..

Glycol ether borate ester

- Inhalation : Inhalation of vapors/mists may cause respiratory irritation.
- Ingestion : May cause abdominal discomfort, nausea and diarrhea
- Eye Contact : May be irritating to the eyes
- Skin Contact : Brief skin contact may cause slight to moderate irritation. Prolonged contact may cause redness and swelling
- Chronic effects : There are no known or reported effects from chronic exposures.

SECTION IV - OCCUPATIONAL EXPOSURE LIMITS

- PEL (OSHA Permissible Exposure Limit) : None established for mixture, See Section II.
- TLV (ACGIH Threshold Limit Value) : None established for mixture, See Section II.

SECTION V - EMERGENCY FIRST AID PROCEDURE

- Ingestion : Do not induce vomiting. Get immediate medical assistance.
- Inhalation : This product is not toxic by inhalation. Remove individual to fresh air.
- Eye Contact : Immediately flush with large amounts of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Call a physician at once.
- Skin Contact : Immediately flush with water for 15 minutes. Wash the contaminated skin with soap and water. If irritation develops, call a physician. If clothing comes in contact with the product, the clothing should be laundered before reuse.
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SECTION VI - PHYSICAL DATA

- Boiling Point : Higher than 490 F
- Vapor Pressure : Below 0.1 mmHg
- Solubility in Water : Complete
- Volatile, percent by Volume : No data
- Specific Gravity (60/60 F): 1.06
- Vapor Density (AIR = 1) : Approx. 7
- pH (50% Water Solution) : 8.8
- Molecular Weight : Not applicable/ Mixture
- Appearance and Color : Light yellow homogeneous liquid
- Odor : Mild, Characteristic
- Coefficient of Oil/Water Distribution : No data
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SECTION VII - FIRE AND EXPLOSION HAZARDS

- Flammability Data :
- Flammable : No
- Combustible : No
- Pyrophoric : No
- Flash Point : 148 C (298 F) Test Method : Cleveland Open Cup
- Autoignition Temperature : No data
- Flammable Limits at Normal Atmospheric Temp. and Pressure (Percent Volume in Air):
- LEL - No data
- UEL - No data
- NFPA Rating : Health : 1 Flammability : 1 Instability : 1
- HMIS Ratings : Health : 1 Flammability : 1 Physical hazard : 1
- Extinguishing Media : Alcohol foam, carbon dioxide, dry chemical, water spray
- Fire Fighting Techniques and Comments : Use water to cool containers exposed to fire. See section X for protective equipment for fire fighting.

SECTION VIII - REACTIVITY

Conditions under Which This Product May Be Unstable :

Temperature Above :	Stable at normal temperature
Mechanical Shock or Impact :	No
Electrical (Static) Discharge :	No
Hazardous Polymerization :	Will not occur
Incompatible Materials :	Strong oxidizers, acids and alkalis
Hazardous Decomposition products:	Carbon monoxide, carbon dioxide

Summary of Reactivity :

Oxidizer :	No
Pyrophoric :	No
Organic Peroxide :	No
Water Reactive :	No

SECTION IX - EMPLOYEE PROTECTION

Control Measures :	Handle in the presence of adequate ventilation. Engineering controls should be used whenever feasible to maintain concentrations below acceptable exposure criteria (see Section II and IV), including enclosures and local exhaust ventilation.
Respiratory Protection :	Where exposure is likely to exceed acceptable criteria (see Section II and IV) and engineering controls are not feasible, use NOSH/MISHA approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminants in air and in accordance with OSHA (29 CFR 1910.134).
Protective Clothing :	Wear gloves and protective clothing which are impervious to the product for the duration of exposure if there is potential for skin contact.
Eye Protection :	Wear safety glasses meeting the specifications of ANSI standard Z87.1 where no contact with the eye is anticipated. Chemical safety goggles meeting the specification of ANSI Standard Z87.1 should be worn whenever there is the possibility of splashing or other contact with the eyes.

SECTION X - ENVIRONMENTAL PROTECTION

For all transportation accidents, call CHEMTREC at **800-424-9300**.

Reportable quantity :	Not applicable
Spill Mitigation Procedures:	Evacuation procedures must be placed into effect. Evacuate all nonessential personnel. Utilize emergency response personal protective equipment prior to the start of any response. Remove all sources of ignition. Stop source of spill as soon as possible and notify appropriate personnel.
Air Release :	Vapors may be suppressed by the use of water fog or spray. Contain all liquid for treatment and/or disposal as a (potential) hazardous waste.

SECTION X - ENVIRONMENTAL PROTECTION (CONTINUED)

- Water Release : This material is heavier than and soluble in water. Notify all downstream water users of possible contamination. Divert water flow around spill if possible and safe to do so if unable to divert, create an overflow dam to contain material. Continue to handle as described in land spill.
- Land Spill : Create a dike or trench to contain materials. Spill materials may be absorbed using sand, clay or commercial absorbent. Do not place spill materials back in their original container. Containerize and label all spill materials properly. Decontaminate all clothing and the spill area using soap solution and flush with large amounts of water.
- Spill Residues : Dispose of per guidelines under Waste Disposal.
- Waste Disposal : If this product becomes a waste, it DOES NOT meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D.
- As a non-hazardous liquid waste, it should be disposed of in accordance with local, state and federal regulations by incineration.
- Care must be taken to prevent environmental contamination from the use of this material. The use of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.**

SECTION XI - REGULATORY CONTROLS

Department of Transportation :

DOT Classification :	No DOT Classification
Other DOT Information :	Not applicable
IATA :	Not regulated
IMDG Code :	Not regulated

Other Regulatory Requirements :

Toxic Substance Control Act :

This product is a mixture: therefore, it is not listed in the TSCA Inventory of Chemical Substances. All of the components of the mixture are listed in the TSCA Inventory of Chemical Substances.

SARA Hazard Categories PER 40 CFR 370.2 :

Health :	Immediate(Acute) and Delayed (Chronic)
Physical :	None

SECTION XI - REGULATORY CONTROLS

Emergency Planning and Community Right to Know

Extremely Hazardous Substance - Threshold Planning Quantity :

None established

Supplier Notification Requirements, PER 40 CFR 372.45 :

This mixture or trade name product contains a toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372.

Chemicals Listed Are : Glycol Ethers

The specific chemical identity and percentage composition are being withheld as trade secrets.

State Right to Know :

Pennsylvania : The specific chemical identity and percentage composition are being withheld as trade secrets.

New Jersey : The specific chemical identity and percentage composition are being withheld as trade secrets.

SECTION XII - ADDITIONAL INFORMATION

The specific chemical identity and percentage composition are being withheld as trade secrets (as per Section II).

SECTION XIII - PRECAUTIONS: HANDLING, STORAGE AND USAGE

Do not take internally. Avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash off with water.

Storage Conditions : Do not store at temperatures above: Normal room temperature is satisfactory.

Product Stability and Compatibility :

Incompatible materials for storage or transport : Strong oxidizers, acids and alkalis.

SECTION XIV - CONTACT INFORMATION

The information presented herein is believed to be factual as it has been derived from the works and opinions of people believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which CCI Manufacturing IL Corporation bears legal responsibility. The user should review any recommendation in the specific context of intended use to determine whether they are appropriate.

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