



Material Safety Data Sheet

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER:

Product Name: **Fortron DISC BRAKE & CLUTCH FLUID DOT 3**

Other Names: **BRAKE & CLUTCH FLUID
FBF320 – 20 litre plastic container**

Recommended Use: A special low moisture absorption, high boil point brake fluid, suitable for all cars, trucks and buses under extreme and heavy duty application.

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2. HAZARDS IDENTIFICATION:

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF NOHSC AUSTRALIA

This material is not considered to be hazardous, but should be handled in accordance with good industrial hygiene and safety practices.

Hazard Identification: This material is not considered to be hazardous.

Risk Phrase:

Safety Phrase:



3. COMPOSITION/INFORMATION ON INGREDIENTS:

Information on Composition: Mixture of polyglycol ethers, polyethylene glycol, corrosion inhibitors and antioxidants.

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Proportion % w/w</u>
Ingredients determined not to be Hazardous	Not required	100%

4. FIRST AID MEASURES:

Swallowed:	If swallowed, do NOT induce vomiting. Wash mouth with water immediately and give a glass of water to drink. Seek immediate medical attention. For advice, contact a Poisons Information Centre. Phone Australia 13 1126; New Zealand 03 4747 000 (Not after May 2005) or 0800 764 766; or a doctor (at once).
Eye:	If contact with the eye(s) occur, immediately hold the eye open and wash continuously for at least 15 minutes with fresh running water. Seek medical attention if any pain or redness develops or persists.
Skin:	Remove contaminated clothing. Wash gently and thoroughly with water and nonabrasive soap. Ensure contaminated clothing is washed before reuse or discard. If irritation develops and persists seek medical attention.
Inhaled:	Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have qualified person give oxygen through a facemask if breathing is difficult. If irritation develops and persists seek medical attention.
First Aid Facilities:	Eye wash and normal washroom facilities.
Advice to Doctor:	Treat symptomatically. Note the nature of this product.

5. FIRE FIGHTING MEASURES:

Extinguishing Media:	Water fog or fine water spray, carbon dioxide, dry chemical or foam.
Unusual Fire & Explosion Hazards:	AS1940 Classification – Class C1 Combustible.
Fire Fighting Precautions:	When fighting fires involving significant quantities of this product, wear self-contained breathing apparatus (S.C.B.A) and full protective clothing should be worn.
Hazchem Code:	Not applicable



6. ACCIDENTAL RELEASE MEASURES:

Emergency Procedures: Stop leak if safe to do so, and contain spill.

Methods and Materials for Containment and Clean Up:-

Small Spills: (20 litres or less)

Soak up using an inert oil absorbent. Arrange for disposal through an approved facility.

Large Spills: (Greater than 20 litres)

Remove all sources of ignition. Increase ventilation. Evacuate all unnecessary personnel. Wear full protective equipment and clothing to minimise exposure. If possible contain the spill. Place inert absorbent material such as vermiculite, sand or dirt onto spillage. Use clean nonsparking tools to collect the material and place into a suitable labelled container. Do not dilute material but contain. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

7. HANDLING AND STORAGE:

Precautions for Safe Handling:

Avoid contact with skin and eyes.

Repeated or prolonged contact with this material should be avoided in order to lessen the possibility of skin disorders. It is essential that all who come into contact with this material, maintain high standards of personal hygiene i.e., washing hands prior to eating, drinking, smoking or going to the toilet. Build up of mists in the working atmosphere must be prevented. Ensure ventilation is adequate. DO NOT enter confined spaces where vapour may have collected. Avoid contamination of material as it may result in brake system failure during use. Keep containers dry and closed at all times as the material is hygroscopic and may absorb moisture from the air.

Conditions for Safe Storage:

Classified as a class C1 combustible liquid for storage and handling purposes. Remove all sources of heat and ignition. Store in a cool, dry, well-ventilated area and out of direct sunlight. Avoid sparks, flames, and other ignition sources. Store away from incompatible materials such as materials that support combustion (oxidising materials). Reference should be made to Australian Standard AS1940 "The Storage and Handling of Flammable and Combustible Liquids".

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

National Exposure Standards: No value assigned for this specific material by the National Occupation Health and Safety Commission (NOHSC)

Exposure Standard means the average concentration of a particular substance in the worker's breathing zone, exposure to which, according to current knowledge, should not cause adverse health effects nor cause undue discomfort to nearly all workers. It can be of three forms; time-weighted average (TWA), peak limitation, or short term exposure limit (STEL).

Time-weighted average (TWA) is defined as the concentration of that substance over an eight-hour working shift, and apply to an eight-hour day, for a five-day working week over an entire working lifetime. Short Term Exposure Limits (STEL) and Peak Limitations may also be specified for short periods of exposure such as 15 minutes.

Engineering Controls: Natural ventilation should be adequate under normal conditions of use. Where vapours or mists are generated, the use of respiratory protection, or a local exhaust ventilation system is recommended.

Personal Protective Equipment: Avoid, as far as reasonably practicable, inhalation of vapour, mists or fumes generated during use.

Respiratory Protection: Select and use respirators in accordance with AS/NZS1715/1716. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist filter. Filter capacity and respirator type depends on exposure levels.

Skin Protection:

Protective Gloves: PVC or nitrile gloves. For help in selecting suitable equipment, consult AS2161.

Clothing: This product is essentially safe to use without special protective clothing, overalls or similar protective apparel. However, its use is recommended as a good industrial practice. Consult AS2919 for advice on Industrial Clothing.

Safety Boots : Wear safety boots in industrial situations is advisory. Consult AS/NZS2210 for advice on Occupational Protective Footwear.

Eye Protection: Safety glasses or face shield as appropriate. Consult AS1336 and AS/NZS1337 for advice on Industrial Eye Protection.

Hygiene Recommendations: Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:	Viscous clear, coloured liquid
Odour:	Mild odour
pH:	8.5-9.5 neat product
Vapour Pressure:	No data available
Vapour Density:	No data available
Boiling Point:	260-270°C
Melting Point:	No data available
Solubility in Water:	Miscible
Specific Gravity:	1.07 @ 20°C
Flashpoint:	> 141°C
Flammability Limits:	LEL No data available UEL No data available
Auto Ignition Temperature:	No data available
Volatiles:	Negligible % v/v
Solubility in Organic Solvents:	Miscible with most organic solvents

10. STABILITY AND REACTIVITY:

Chemical Stability:	Stable under normal conditions of storage and handling.
Conditions to Avoid:	Classified as a Class C1 (combustible liquid). Remove all sources of heat and ignition.
Incompatible Materials:	Avoid strong oxidising agents.
Hazardous Decomposition Products:	Oxides of carbon.

11. TOXICOLOGICAL INFORMATION:

HUMAN HEALTH HAZARDS - ACUTE

Swallowed:	Initial symptoms following a large dose are those of alcohol intoxication, progressing to nausea, vomiting, headache, convulsions and unconsciousness. Respiratory system involvement may occur 12-24 hours after ingestion; symptoms including hyperventilation and rapid shallow breathing. Death may occur from respiratory failure or pulmonary oedema.
Eye:	This product may be mildly irritating to eyes, resulting in redness and stinging. However, it is unlikely to cause more than mild transient discomfort. It is also unlikely to cause any lasting effects.
Skin:	This product may be mildly irritating to skin, which can result in redness, itchiness, drying of the skin that may lead to dermatitis. However, it is unlikely to cause any more than mild transient discomfort. It is also unlikely to cause any lasting effects.



11 TOXICOLOGICAL INFORMATION: continued

Inhaled: May cause irritation to the mucous membrane and upper airways, especially if the material is heated or mists are generated. Symptoms may include headache, dizziness, nausea, coughing and nasal discomfort or discharge with chest pain.

Chronic effects: Prolonged or repeated contact with this material may result in skin irritation leading to dermatitis.

12. ECOLOGICAL INFORMATION:

Ecotoxicity: Prevent this material from entering the environment.

Persistence and Degradability: No specific data available.

Mobility: No specific data available.

Bioaccumulation: No specific data available.

13. DISPOSAL CONSIDERATIONS:

Disposal Methods and containers: Dispose of waste according to federal, E.P.A., state and local regulations. Assure conformity with all applicable regulations.

Special Precautions for Landfill or Incineration: Dispose of only in accord with all regulations.

14. TRANSPORT INFORMATION:

UN Number: None Allocated

UN Proper Shipping Name: None Allocated

Class and Subsidiary Risk: None Allocated

Packaging Group: None Allocated

Special Precaution for user: None Allocated

Hazchem Code: None Allocated



15. REGULATORY INFORMATION:

Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rails.

16. OTHER INFORMATION:

Date of Issue: 30th July, 2009
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Please Note:

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