

Material Safety Data Sheet (MSDS)

Paramount Brake Fluid DOT 4(BF5002),

1. Chemical and Company Identification

Trade Name	Brake Fluid DOT 4
Product Code	BF5004
Manufacturer/Supplier	Paramount Oil Trading FZE, PO Box 42826, Hamriya Free Zone, Sharjah – United Arab Emirates
Routine Enquiries	+971-6-7433099
Fax	+971-6-7433094
Emergency Contact (24 Hours)	+971 6 7433099
Chemical Description	Automotive Brake Fluid DOT 4

2. Composition and Ingredients

Components	CAS No.	Range in %
Butyl Triglycol	143-22-6	> 20
Mixture of Di-ethylene Glycol	111-46-6	<25
Methyl Di Glycol	111-77-3	<5

3. Hazards Identification

Physical Hazard	Not significant
Eyes	Health hazard R 36. Irritating to eyes.
Skin	Mildly irritating to skin.
Ingestion	If ingested it may be absorbed and renal damage at high dosage.
Environmental Hazard	Low

4. First Aid Measures

Eyes	Flush eyes immediately with fresh and plenty of water for at least 10 minutes while holding the eyelids open. If irritation persists, seek medical assistance.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water. See a doctor if any signs or symptoms' described in this MSDS occur. Launder contaminated clothing
Ingestion	Obtain medical advice immediately. if person is fully conscious, wash out mouth with water and give plenty of water to drink. Never give anything by mouth to an unconscious person. Induce vomiting only under medical supervision.
Inhalation	Remove victim to fresh air and keep at rest. If recovery is not rapid seek medical attention.
General Advice	Medical personnel seeking to administer first aid are referred to the services of the Poisons Information Service, who can advise in such instances. There is no specific antidote and treatment of overexposure should be directed at control of symptoms and the patient's clinical condition.

5 Fire Fighting Measures

Fire Extinguishing Agents	<p><u>Suitable extinguishing media</u>- Alcohol resistant foam, dry powder, carbon dioxide or water (fog or fine spray).</p> <p><u>Unsuitable Extinguishing Media</u>- Water jets (although these may be used to cool adjacent containers).</p> <p>Special hazards arising from the substance or mixture: No special risk – combustion products may contain harmful or irritant fumes. Containers may rupture from gas generation if exposed to fire.</p>
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Advice for fire fighters:	Eye protection should be worn. Keep containers cool with water spray. In extreme conditions self-contained breathing apparatus and protective suit should be worn
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6 Accidental Release Measures

In case of Spill	Prevent unnecessary personnel entering area of spillage. Avoid contact with eyes, skin, and clothing. When cleaning up large spills, appropriate protective clothing should be worn including eye protection and impervious gloves – see section 8 for details.
Environmental Precautions:	Prevent from entering drains, ditches or rivers. If this happens inform relevant authorities. Prevent gross contamination of soil.
Methods and materials for containment and cleaning up	Contain spillage using sand earth or absorbent booms. Small spillages can be absorbed using rags or absorbent granules. Remove all material to a suitable container for subsequent disposal. Label Salvage Container appropriately. Flush contaminated area with plenty of water.
Precaution for staff dealing with spill	Eye protection should be worn. Keep containers cool with water spray. In extreme conditions self-contained breathing apparatus and protective suit should be worn

7 Handling and Storage

Precaution for safe handling and Storage	Avoid any method of handling that generates mists or aerosols. Do not eat, drink or smoke when handling this product. Wash hands thoroughly after use. Suitable bulk storage vessels are mild/stainless steel tanks fitted with a dry air breathing system or tight head steel drums. Do not store in lined tanks or drums. Brake fluid absorbs water from the atmosphere – always keep containers tightly closed. Avoid contamination with any other substances and in particular with mineral oils which are incompatible.
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8 Exposure Control/Personal Protection

General	Employ good industrial hygiene practice as part of a control banding approach.
Engineering controls	Not necessary under normal conditions. If fluid is being heated or atomized, local exhaust ventilation with filter / scrubber is recommended.
Respiratory protection	Not needed under normal conditions. Self-contained breathing apparatus or Organic vapour respirators (A-P2) may be used where product is being heated or atomized and engineering control measures are not practical. ploy good industrial hygiene practice as part of a control banding approach.
Eyes	Wear close-fitting goggles or face shield where there is a risk of splashing (acrylic or PVC preferred to polycarbonate which may be attacked by brake fluid). Eye baths should be provided at locations where accidental exposure may occur. Skin Protection where significant exposure is possible wear impervious body covering. It is recommended that showers are provided at locations where accidental exposure may occur.
Hand protection	Not needed under normal conditions. Self-contained breathing apparatus or Organic vapour respirators (A-P2) may be used where product is being heated or atomized and engineering control measures are not practical.

9 Physical and Chemical Properties

Note: The following data may represent a range of approximate or typical values for products in the same family. Precise technical information is provided in Product Bulletins and can be obtained from your Marketing Representative	
Appearance and Odor	Clear liquid – colorless to Amber - sometimes dyed.
pH	7.0 to 11.50
Boiling Point	> 205 °C
Flash Point	> 90 °C
Density(gm/ml at 20 deg C)	1.010 - 1.060
Solubility	In water & ethanol (at any ratio)

10 Stability and Reactivity

Chemical stability	Product is stable under normal conditions.
Possibility of Hazardous reactions	Glycol Ethers can form peroxide on storage. Glycol ethers can react with light metals with the evolution of Hydrogen.
Conditions to Avoid	Do not distill to dryness without testing for peroxide formation
Incompatible materials	Strong oxidizing agents. For users safety, brake fluid should never be mixed or contaminated with any other substance.
Hazardous decomposition products	None known

11 Toxicological Information

Skin irritation	Repeated contact may de-fat the skin and cause dermatitis.
Ingestion	Product is of low acute oral toxicity. However, if any significant amount is ingested, there is a risk of renal damage which in extreme cases could lead to kidney failure, coma or death. Other symptoms of overexposure include Central Nervous System effects, abdominal discomfort, metabolic acidosis, headache and nausea.
Inhalation	Unlikely to be hazardous by inhalation at ambient temperatures due to low vapour pressure. If product is inhaled at elevated temperatures or as an aerosol it may irritate respiratory tract and may cause systemic effects similar to ingestion.
Dermal	Massive contact with damaged skin could result in the absorption of harmful amounts
Eye contact	Causes serious eye irritation

12. Ecological Information

Environmental Effects	No specific toxicology data on this product is available. This product may present environmental risks common to oil spills
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13. Disposal Considerations

Waste Disposal	Waste treatment methods Dispose of in accordance with local and national regulations. Used brake fluids are classified as Hazardous Waste. Controlled incineration or recycling is recommended.
Remarks	Do not dispose of to landfill or drains. It is recommended that contaminated packaging is either incinerated or cleaned and sent for recycling

14. Transport Information

Transportation of Dangerous Goods	
UN Number	Not Applicable
Dangerous Goods Class	Not Applicable
Proper Shipping Name	Not applicable
Marine Pollutant	Not applicable
Hazchem Code	Not applicable
Additional Information	None Determined

15. Regulatory Information

Others	Risk phrase: R35. Usage should be in accord with all local and national regulations. This would include the Health and Safety at Work Act and the Control of Substances Hazardous to Health regulations.
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16. Other Information – No specific notes on this product.

To the best of our knowledge, the information provided in this MSDS document is correct. Access to this information is being provided via the internet too so that it can be made available to as many potential users as possible. We do not assume any liability for consequences of the use of this information since it may be applied under conditions beyond our control or knowledge. Also, it is possible that additional data could be made available after this MSDS was issued. Certain hazards are described herein; however, these may not be the only hazards that exist. All materials may present unknown hazards and should be used with caution.

Customers are encouraged to review this information, follow precautions and comply with all applicable laws and regulations regarding the use and disposal of this product. For specific technical data or advice concerning this product as supplied in your country please contact your local sales representative. The final determination of the suitability of any material is the sole responsibility of the user.