



MATERIAL SAFETY DATA SHEET

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Date : 2/9/2004

Supersedes : 0/0/0

Gulf Brake Fluid Super DOT 4**07102**

1. Identification of the product and the company

Trade name : Gulf Brake Fluid Super DOT 4.
Use : Brake Fluid
Company identification : Gulf Oil Lubricants India Limited, IN Centre, 12th Road, Marol, Andheri (East), Mumbai – 400 093

Emergency phone nr : +91 22 66487777
- Company : As above

2. Information on ingredients

Polyethylene glycols, polyglycol ethers, glycol ether esters and performance additives.

Substance name	Value(s)	CAS nr	EINECS nr	EC index	CERTIFICATE
Glycol Ethers	:	MIXTURE	----	----	Xi; R36
Polyethylene Glycols	:	MIXTURE	----	----	Xn; R22
Other information	: See Section 16 for full text of relevant R-phrases				

3. Hazards identification

Main hazards : Not a dangerous preparation according to 1999/45/EC.
Adverse human health effects : None under normal conditions.
Environmental hazards : No specific risk for the environment.

- Inhalation : Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
- Skin contact : Not expected to present a significant skin hazard under anticipated conditions of normal use.
- Eye contact : Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
- Ingestion : Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

4. First aid measures

- Inhalation : Assure fresh air breathing. Obtain medical attention if breathing difficulty persists.
- Skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Seek medical attention if irritation develops.
- Eye contact : Rinse immediately with plenty of water. Seek medical attention if irritation develops.
- Ingestion : DO NOT INDUCE VOMITING. Seek medical attention immediately.
Note to physician : If there is any suspicion of aspiration into the lungs either directly or as a result of vomiting, obtain medical advice.



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5. Fire - fighting measures

- Suitable extinguishers** : Water fog. Carbon dioxide. Dry chemical. Foam.
- Extinguishers not to be used** : Do not use a heavy water stream.
- Surrounding fires** : Use water spray or fog for cooling exposed containers.
- Special exposure hazards** : None under normal conditions. See also hazardous reactions § 10.
- Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.
- Special procedures** : None Identified

6. Accidental release measures

- Personal precautions** : Keep public away from danger area. Wear recommended personal protective equipment. Equip cleanup crew with proper protection.
- Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.
- After spillage and/or leakage** : Clean up any spills as soon as possible, using an absorbent material to collect it. Collect spills and put it into appropriated container. Use suitable disposal containers. Recover the cleaning water for diposal. Spill area may be slippery.
- on soil** : May require excavation of contaminated soil.

7. Handling and storage

- General** : No naked lights. No smoking. Keep away from sources of ignition.
- Precautions in handling and storage** : Handle in accordance with good industrial hygiene and safety procedures.
- Storage** : Keep container closed when not in use. Keep only in the original container in a cool, well ventilated place. Keep at temperature not exceeding 45°C.
- Handling** : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

8. Exposure controls / personal protection

- Personal protection**
- Respiratory protection** : No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.
 - Hand protection** : Use neoprene or rubber gloves.
 - Skin protection** : Wear proper protective equipment.
 - Eye protection** : Safety glasses.
- Industrial hygiene** : Provide local exhaust or general room ventilation to minimize dust and/or vapour concentrations. When using, do not eat, drink or smoke. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
- Occupational Exposure Limits** : None established for this product.



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9. Physical and chemical properties

Physical state	: Liquid.
Colour	: Amber.
Odour	: Mild.
pH value	: 7-11
Pour point [°C]	: -50 deg C
Viscosity at 100°C [mm ² /s]	: 1.5 min
Solubility in water	: Miscible.
Flash point [°C] (ASTM D 92)	: > 110
Specific gravity	: 1.03

10. Stability and reactivity

Physico-chemical stability	: Stable.
Conditions to avoid	: Open flame. Sparks. Overheating.
Materials to avoid	: Oxidizing agents.
Hazardous decomposition products	: Carbon dioxide. Carbon monoxide.
Hazardous reactions	: None under normal conditions.
Hazardous Polymerization	: Will not occur.

11. Toxicological information

Acute toxicity	: Not expected to be toxic.
- Inhalation	: Practically non toxic at normal conditions of usage. May cause respiratory irritaion following prolonged or repeated inhalation of excessive oil mist and vapours.
- Dermal	: Not expected to be a primary skin irritant. Prolonged or repeated exposure may lead to dermatitis.
- Ocular	: Repeated exposure may cause a slight irritation.
- Ingestion	: Practically non toxic if swallowed in small doses. Larger quantities may cause nausea and diarrhoea.
Chronic toxicity	: Not expected to be toxic.
Sensitization	: No sensitization effects known.
Carcinogenicity	: No data available. The ingredients used in this preparation have not been listed in the US National Toxicology Program (NTP) nor have they been classified by the International Agency for Research on Cancer (IARC) as carcinogenic or probably carcinogenic to humans.
Other toxicological information	: There is a probability of kidney damage if this product is absorbed in high doses.

12. Ecological information

Ecological effects information	: Adverse effects to the environment are not expected from this product
Persistence and degradability	: Inherently Biodegradable
Bioaccumulative potential	: Not determined.



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12. Ecological information (continued)

Mobility soil : Ground water contamination may be caused through spillages

13. Disposal considerations

Disposal : Dispose in a safe manner in accordance with local/national regulations.

14. Transport information

General information : Not regulated.
- **UN No.** : Not regulated
- **ADR/RID** : Not regulated.
- **IMO-IMDG code** : Not regulated.
- **ICAO/IATA** : Not regulated.

15. Regulatory information

EC Labelling : Not classified.
Regul./ EINECS : All components are in compliance with the EC Seventh amendment Directive 92/32/EEC
Canada : In compliance (DSL)
US Toxic Substances Control Act - TSCA : In compliance
Australian Inventory of Chemical Substances (AICS) : In compliance

16. Other information

R-phrases listed in chapter 2 : R22 - Harmful if swallowed.
R36 - Irritating to eyes.

Product information : For specific or detailed technical data for this product, please contact your local sales representative.

Note : To the best of our knowledge and belief, the information and recommendations provided in this MSDS are correct. We make no warranty whatsoever, expressed or implied of merchantability or fitness for the particular purpose, regarding the accuracy of such data or the results to be obtained from the use thereof. We do not assume any liability for consequences of the uses of this information since it may be applied under conditions beyond our control or knowledge. The information is furnished on the condition that the recipients shall make their own decision as to safety and suitability of the material for their purposes. We will not be responsible for damages of any nature resulting from the use or reliance upon the information and recommendations. If you have purchased this product for supply to a third party, it is your duty to pass on to that third party the information given in this Data Sheet. If the third party is not an employer it is his duty to pass the information given in the Data Sheet to the employer of whoever uses or



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16. Other information (continued)

handling this product (and others who may be affected) , of any hazards described in the Data Sheet and of any precautions which should be taken to ensure safe handling of the product.

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