



MATERIAL SAFETY DATA SHEET

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Revision nr : 1

Date : 7 / 2 / 2006

Supersedes : 0 / 0 / 0

Brake Fluid Max

IND-AL CO 12

1. Identification of the product and the company

Trade name : Brake Fluid Max.
Use : Brake Fluid
Company identification : Gulf Oil Corporation Limited,
IN Centre,
12th Road,
Marol, Andheri (East)
Mumbai - 400 093

www.gulfoilltd.com
Chemical description : Brake Fluid Containing Glycol Compounds
Emergency phone nr : +91 22 66487777

2 Hazards identification

- Inhalation : Irritation of the nose, throat and lungs, headache, nausea, drowsiness, dizziness or unconsciousness may result from exposure to vapours or mists present in poorly ventilated or confined areas, or generated from spraying or heating the material.

- Skin contact : Expected to cause no more than minor skin irritation. Prolonged or frequently repeated contact may cause more severe irritation or may cause the skin to become cracked or dry from the defatting action of this material.

- Eye contact : May cause irritation to eyes.

- Ingestion : Liver and/or kidney damage have been reported to occur following significant overexposures.

Note : : Harmful or fatal if swallowed. Keep out of reach of children.

3 Information on ingredients

Substance name	Value(s)	CAS nr	EINECS nr	EC index	CERTIFICATE
Glycol Ethers	: 50 - 59.99 %	MIXTURE	----	----	Xi; R36
Polyethylene Glycols	: 20 - 29.99 %	25322-68-3	----	----	Xn; R22
Triethylene glycol	: 5 - 14.99 %	112-27-6	203-953-2	----	
Diethylene glycol	: 5 - 14.99 %	111-46-6	203-872-2	----	

4. First aid measures

- Inhalation : If there are signs or symptoms as described in this MSDS due to breathing this material, move the person to fresh air. If breathing has stopped, apply artificial respiration. Call a doctor.

- Skin contact : Remove and launder contaminated clothing, including shoes. Wash skin thoroughly with soap and water. See a doctor if any signs or symptoms described in this MSDS occur.

- Eye contact : Flush eyes immediately with fresh water for at least 15 minutes while holding the eyelids open. If irritation persists, see a doctor.

- Ingestion : If swallowed and person is conscious, give water or milk to drink and seek prompt medical advice. DO NOT make person vomit unless directed to do so by medical personnel. If medical advice cannot be obtained, take the person with product container and lab



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4. First aid measures (continued)

Note to physician : None Applicable.

5. Fire - fighting measures

- Prevention** : Ignition Temp: >300 Degree Celcius
Flash Point:> 110 Degree Celcius (PMCC)
- Extinguishing media** : According to the U.S. National Fire Protection Association Guide, use water fog, dry chemical, foam, or carbon dioxide. Water or foam may cause frothing. Use water to cool fire-exposed containers. If a leak or spill has not ignited, use water spray to
- Special exposure hazards** : For fires involving this material, do not enter any enclosed or confined space without self-contained breathing apparatus to protect against the hazardous effects of combustion products or oxygen deficiency.

6. Accidental release measures

After spillage and/or leakage : Stop the source of the leak or release and contain spill if possible. Ventilate area. Use respirator and protective clothing as discussed in this MSDS. Cover spill with a generous amount of inert absorbent. Use a stiff broom to mix thoroughly. Sweep up

7. Handling and storage

General : Minimum feasible handling temperatures should be maintained. Periods of exposure to high temperatures should be minimized. Water contamination should be avoided.

8. Exposure controls / personal protection

- **Respiratory protection** : None Required. However, an approved respirator is recommended if operating conditions generate vapor, mists or fumes, and if exposure cannot adequately be controlled by local exhaust ventilation. Wear approved respiratory protection such as a toxic dust,
 - **Skin protection** : Avoid contact with skin or clothing. Wearing impervious protective clothing including gloves can minimize skin contact. Protective clothing made from neoprene, nitrile, or n-butyl rubber is suitable in these applications.
 - **Eye protection** : Avoid eye contact. The wearing of chemical safety goggles or face shield is recommended.
- Occupational Exposure Limits** : No exposure limits established for product.

9. Physical and chemical properties

- Appearance** : Liquid.
- Colour** : Colour can vary by country: Colourless, amber or red.
- Odour** : Odourless
- pH value** : 7-11
- Initial boiling point [°C]** : 215-260 C
- Density** : 1.03-1.07 Kg/L (@15 deg. C)



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9. Physical and chemical properties (continued)

Vapour pressure mm/Hg : Low @ 25 deg. C
Viscosity at 40°C [mm²/s] : 5-10
Solubility in water [% weight] : Soluble

10. Stability and reactivity

Thermal stability : Carbon monoxide and carbon dioxide may be formed on burning in limited air supply.
Conditions to avoid : Strong oxidizers such as chlorates, nitrates, peroxides, etc.
Hazardous Polymerization : DO NOT OCCUR

11. Toxicological information

On product : This product contains polyalkylene glycols, polyalkylene glycol ethers, and ether esters. Reported effects include kidney damage from high doses or from prolonged or repeated exposure. While normal use of this material should not result in any adverse e

12. Ecological information

On product : This product is expected to have a moderate ($\geq 30\%$) rate of biodegradation, and a low potential to bioaccumulate.

13. Disposal considerations

Disposal : Check governmental regulations and local authorities for approved disposal of this material. Releases of this product should be prevented from contaminating soil, and from entering drainage, sewer systems, and all bodies of water.

14. Transport information

Shipping name : Not Applicable.
- UN No. : Not Applicable.
- Class : Not Applicable.

15. Regulatory information

Other : In the absence of local approval authorities/standards, follow US NIOSH/MSHA, UK BSI regulations. Respirators must meet either the above or local standard for approved respirators

16. Other information

R-phrases listed in chapter 2 : R22- Harmful if swallowed.
R36- Irritating to eyes.
Product information : No specific notes on this product.

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Brake Fluid Max**IND-AL CO 12****16. Other information (continued)****Note**

: 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 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.

The contents and format of this MSDS are in accordance with EEC Commission Directive 93/112/EEC.

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