BRAKE FLUID & COOLANT

DOT 4 Brake & Clutch Fluid

Safety Data Sheet

1. IDENTIFICATION OF THE PRODUCT AND COMPANY

Product name	DOT 4 Brake & Clutch Fluid
Recommended use	Hydraulic brake and clutch fluid
Restrictions on use	Use only for the purposes stated on the label and technical data sheet.
Supplier	Motoforce Lubricants, 404 Time Square, Ayodhya Chowk, Opp. Synergy Hospital, 150 ft Ring Road, Rajkot, Gujarat 360006, India
Telephone / e-mail	+91 88665 87735 · motoforcelub@gmail.com
Emergency telephone	+91 88665 87735 (business hours) · National emergency: 112

2. HAZARDS IDENTIFICATION

GHS classification Acute toxicity (oral), Category 4. Reproductive toxicity, Category 1B.



GHS07 Exclamation mark



GHS08 Health hazard

DANGER

Pictograms	GHS07, GHS08
Signal word	Danger

Hazard statements

- H302 Harmful if swallowed.
- H360FD May damage fertility. May damage the unborn child.

Precautionary statements

- P102 Keep out of reach of children.
- P201 Obtain special instructions before use.
- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves and eye protection.
- P301+P312 IF SWALLOWED: Call a poison centre or doctor if you feel unwell.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P501 Dispose of contents and container through an authorised waste handler.

Other hazards: Hygroscopic — absorbs moisture from air, which lowers boiling point. Damages paintwork.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Conc. (% w/w)
Triethylene glycol monomethyl ether	112-35-6	**20 – 45**
Triethylene glycol monobutyl ether	143-22-6	**10 – 30**
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	30989-05-0	**10 – 35**
Polyethylene glycol	25322-68-3	**5 – 15**
Diethylene glycol	111-46-6	**1 – 10**
Corrosion inhibitors and anti-oxidants	Proprietary mixture	**< 2**

4. FIRST-AID MEASURES

Inhalation	Unlikely route of exposure. Move to fresh air if mist is inhaled.
Skin contact	Wash with soap and water. Remove contaminated clothing.
Eye contact	Rinse immediately with plenty of water for at least 15 minutes, holding eyelids open. Seek medical advice.
Ingestion	Rinse mouth. Do NOT induce vomiting. Seek medical attention immediately and show this sheet. Glycols may cause kidney damage and central nervous system effects.
Notes to physician	Treat symptomatically. Monitor renal function after significant ingestion.

5. FIRE-FIGHTING MEASURES

Suitable media	Alcohol-resistant foam, dry chemical powder, carbon dioxide (CO_2), water spray.
Unsuitable media	Direct water jet.
Specific hazards	Combustible liquid. Combustion produces carbon monoxide and carbon dioxide, and oxides of boron.
Fire-fighter protection	Wear self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions: Wear gloves and eye protection. Spills are slippery.
- Environmental precautions: Prevent entry into drains and watercourses.
- Clean-up: Absorb with inert material (sand, earth) and place in a labelled container for disposal. Rinse the area with water.

7. HANDLING AND STORAGE

Handling

- Pregnant women and women of child-bearing age should avoid exposure.
- Avoid contact with eyes, skin and painted surfaces. Do not eat, drink or smoke while handling.
- Keep containers tightly closed when not in use to prevent moisture absorption.

Storage

- Store in original, tightly sealed containers in a cool, dry place away from direct sunlight.
- Do not store in open or unlabelled containers. Keep away from strong oxidising agents.
- Store locked up, out of reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

- No occupational exposure limits established for the components. Follow good industrial hygiene practice.

Engineering controls	General ventilation.
Hand protection	Nitrile or butyl rubber gloves.
Eye protection	Safety goggles.
Skin / body	Standard work clothing.
Respiratory	Not normally required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state / appearance	Clear, light amber liquid
Dry Equilibrium Reflux Boiling Point	≥ 230 °C
Wet Equilibrium Reflux Boiling Point	≥ 155 °C
Kinematic Viscosity @ −40 °C	≤ 1800 cSt
Kinematic Viscosity @ 100 °C	≥ 1.5 cSt
pH Value	7.0 – 11.5

Density @ 20 °C	1.04 – 1.07 g/cm³
Odour	Mild, characteristic
Solubility in water	Completely miscible
Flash point	> 120 °C (PMCC, typical)
Autoignition temperature	> 300 °C (typical)
Vapour pressure	< 0.1 kPa @ 20 °C

10. STABILITY AND REACTIVITY

Reactivity	Not reactive under normal conditions.
Chemical stability	Stable. Hygroscopic.
Conditions to avoid	Moisture, heat, open flames.
Incompatible materials	Strong oxidising agents, strong acids.
Hazardous decomposition	Carbon oxides and boron oxides on combustion.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	Harmful if swallowed (glycol content). Estimated oral ATE 300–2,000 mg/kg.
Skin irritation	Not expected to be irritating.
Eye irritation	May cause mild irritation.
Reproductive toxicity	Borate ester components hydrolyse to boric acid, which is classified as toxic for reproduction.
Target organs	Kidneys and central nervous system after ingestion of large amounts.

12. ECOLOGICAL INFORMATION

- Readily biodegradable glycol ethers; low toxicity to aquatic organisms expected.
- Fully water-soluble — prevent entry into drains and watercourses.

13. DISPOSAL CONSIDERATIONS

- Dispose of as hazardous waste through an authorised facility in accordance with the Hazardous and Other Wastes Rules, 2016.
- Do not pour into drains or onto soil.

14. TRANSPORT INFORMATION

Not classified as dangerous goods for transport by road (ADR), rail (RID), sea (IMDG) or air (IATA).

15. REGULATORY INFORMATION

- Classified according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS).
- Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 (India).
- Product meets FMVSS 116 (US DOT) DOT 4 brake fluid requirements.

16. OTHER INFORMATION

Revision	Rev. 01 — October 2026
Related documents	Technical Data Sheet — DOT 4 Brake & Clutch Fluid
Disclaimer	The information in this MSDS is based on our present knowledge and is given in good faith. It describes the product with regard to safety requirements and does not constitute a guarantee of product properties. Users are responsible for complying with all applicable laws and regulations. Motoforce Lubricants accepts no liability for loss or damage arising from improper use of the product.