BRAKE FLUID & COOLANT

Moto Coolant 1:4

Safety Data Sheet

1. IDENTIFICATION OF THE PRODUCT AND COMPANY

Product name	Moto Coolant 1:4
Recommended use	Engine coolant concentrate (dilute before use)
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. Specific target organ toxicity — repeated exposure, Category 2 (kidney, oral).



GHS07 Exclamation mark



GHS08 Health hazard

WARNING

Pictograms	GHS07, GHS08
Signal word	Warning

Hazard statements

- H302 Harmful if swallowed.
- H373 May cause damage to organs (kidney) through prolonged or repeated exposure if swallowed.

Precautionary statements

- P102 Keep out of reach of children.
- P260 Do not breathe mist or vapours.
- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P301+P312 IF SWALLOWED: Call a poison centre or doctor if you feel unwell.
- P314 Get medical advice/attention if you feel unwell.
- P501 Dispose of contents and container through an authorised waste handler.

Other hazards: Sweet taste may attract children and animals. Keep containers closed and clean up spills immediately.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Conc. (% w/w)
Ethylene glycol	107-21-1	**85 – 95**
Corrosion inhibitors (incl. benzoates, tolyltriazole)	Proprietary mixture	**2 – 5**
Water	7732-18-5	**1 – 8**
Dye	Proprietary	**< 0.1**

4. FIRST-AID MEASURES

Inhalation	Move to fresh air. Seek medical advice if symptoms occur.
Skin contact	Wash with soap and water.
Eye contact	Rinse with plenty of water for several minutes. Seek medical advice if irritation persists.
Ingestion	Seek medical attention IMMEDIATELY, even if no symptoms are present — ethylene glycol poisoning is delayed. Rinse mouth. Do not induce vomiting unless directed by medical personnel.
Notes to physician	Ethylene glycol poisoning: consider fomepizole or ethanol therapy and haemodialysis. Monitor acid–base balance and renal function.

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 at high temperature. Combustion produces carbon monoxide and carbon dioxide.
Fire-fighter protection	Wear self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions: Wear gloves. Keep children and animals away from spills.
- Environmental precautions: Prevent entry into drains, sewers and watercourses.
- Clean-up: Absorb with inert material and place in a labelled container for disposal. Flush the area with water.

7. HANDLING AND STORAGE

Handling

- Do not swallow. Avoid contact with eyes and prolonged contact with skin.
- Do not eat, drink or smoke while handling. Wash hands after use.
- Never store in food or drink containers.

Storage

- Store in original, tightly closed, labelled containers in a cool, well-ventilated area.
- Keep out of reach of children and animals.
- Avoid galvanised (zinc-coated) containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

- Ethylene glycol: ACGIH TLV — 25 ppm TWA, 50 ppm STEL (vapour); 10 mg/m³ STEL (inhalable aerosol).

Engineering controls	General ventilation.
Hand protection	Nitrile or butyl rubber gloves.
Eye protection	Safety glasses with side shields.
Skin / body	Standard work clothing.
Respiratory	Not normally required. Use an organic-vapour respirator when mist is generated from heated product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state / appearance	Clear green liquid
Density @ 20 °C (concentrate)	1.110 – 1.130 g/cm³
pH (50% v/v solution)	7.5 – 9.0
Reserve Alkalinity	≥ 10 ml
Boiling Point (concentrate)	≥ 160 °C
Freezing Point at 1:4 dilution	≈ −8 °C

Odour	Slight, sweet
Solubility in water	Completely miscible
Flash point	> 110 °C (PMCC, typical)
Autoignition temperature	> 400 °C (typical)
Vapour pressure	< 0.1 kPa @ 20 °C

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Acute toxicity	Harmful if swallowed. Estimated lethal dose of ethylene glycol in humans is approximately 1.4 ml/kg.
Skin irritation	Not irritating; prolonged contact may cause dryness.
Eye irritation	May cause mild irritation.
Target organs	Kidneys, central nervous system (after ingestion).
Repeated exposure	Repeated ingestion may cause kidney damage.

12. ECOLOGICAL INFORMATION

- Ethylene glycol is readily biodegradable and has low toxicity to aquatic organisms.
- High biological oxygen demand — large spills can deplete oxygen in water. Prevent entry into watercourses.

13. DISPOSAL CONSIDERATIONS

- Collect used coolant separately and dispose of through an authorised waste facility.
- Do not pour used coolant 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).

16. OTHER INFORMATION

Revision	Rev. 01 — October 2026
Related documents	Technical Data Sheet — Moto Coolant 1:4
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.