



MATERIAL SAFETY DATA SHEET

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Date : 23 / 3 / 2009

Supersedes : 0 / 0 / 0

Leypower Coolant 5000**06103**

1. IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND OF THE COMPANY/ UNDERTAKING

Identification of substance or preparation : Leypower Coolant 5000
Use of the substance/ preparation : Radiator Coolant
Company/ undertaking identification : Gulf Oil Corporation Limited, IN Centre, 12th Road, Marol, Andheri (East), Mumbai - 400 093
Emergency telephone : +91 22 66487777

2. HAZARDS IDENTIFICATION

Classification of the substance or preparation : Classified as dangerous according to Directive 67/548/EEC as amended and adopted.
Most important adverse physicochemical effects : No adverse hazards.
Most important adverse human health effects : Harmful if swallowed.
Most important adverse environmental effects : No specific risk for the environment.
Symptoms relating to uses and possible misuses of the preparation : None under normal conditions.
Other hazards : Avoid prolonged contact with used oil. Overexposure to oil mist cause respiratory irritations. Oil mist deposited on surfaces may cause slip hazard.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

This product is considered to be hazardous and contains hazardous components.

Composition of the preparation : Ethylene Glycol Corrosion Inhibitor

Substance name	Value(s)	CAS nr	EINECS nr	EC index	CERTIFICATE
Ethanediol	83 - 90 %	107-21-1	203-473-3	603-027-00-1	Xn; R22
Sodium benzoate	8 - 14 %	532-32-1	----	----	
Sodium Salts	3 - 7 %	----	----	----	

Other information : See Section 16 for full text of relevant R- phrases

4. FIRST AID MEASURES

First aid

- **After inhalation** : Assure fresh air breathing. Obtain medical attention if breathing difficulty persists.
- **After contact with skin** : 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.
- **After contact with eyes** : Rinse immediately with plenty of water. Seek medical attention if irritation develops.
- **After ingestion** : If swallowed and person is conscious, give water or milk. DO NOT make person vomit except on medical advice. If advice cannot be obtained, take person with container and label to nearest emergency treatment center. Never give anything by mouth to an unconscious person.

Other Information : Signs of toxicity may resemble those of general anaesthetics with initial excitement followed by depression. Symptoms may include behavioural changes, drowsiness, vomiting, diarrhoea, thirst and convulsions. Nephrotoxicity may occur. End stages



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4. FIRST AID MEASURES (continued)

of poisoning may include renal damage or failure with acidosis. Intravenous administration of ethanol has been suggested as an antidote for ethylene glycol toxicity. Other antidotal treatments also exist for ethylene glycol poisoning. Prompt Gastric lavage by qualified medical personnel may be considered, depending upon quantity of material ingested. This product may represent as aspiration hazard. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed upto 48 hours.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media** : Water fog. Carbon dioxide. Dry chemical. Foam.
- Extinguishing media which shall not be used** : Do not use a heavy water stream.
- Special exposure hazards**
- **Surrounding fires** : Use water spray or fog for cooling exposed containers.
 - **Combustion products/ resulting gases** : Under fire conditions, hazardous fumes will be present.
- Special protective equipment for fire-fighters** : Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA).

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.
- Cleaning methods** : 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 disposal. Spill area may be slippery.

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 out of reach of children. Keep container closed when not in use. Keep only in the original container in a cool, well ventilated place. Keep away from food, drink and animal feeding stuffs.
- Handling** : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.
- Specific use(s)** : Radiator Coolant



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8. EXPOSURE CONTROL/ PERSONAL PROTECTION

- Exposure limit values** : according to STEL (TLV) ACGIH : 100 mg/m³
- Occupational exposure controls**
- **Respiratory protection** : No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.
 - **Hand protection** : Use neoprene or rubber gloves.
 - **Eye protection** : Safety glasses.
 - **Skin protection** : In case of possible repeated skin contact wear protective clothing.
 - **Specific hygiene measures** : 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.
- Environmental exposure controls** : See sections 6, 7, 12, 13.

9. PHYSICAL AND CHEMICAL PROPERTIES

- General Information**
- **Physical state** : Liquid.
 - **Colour** : Green.
 - **Odour** : Mild.
- Important health, safety and environmental information**
- **pH value (concentrated product)** : 9.5
 - **Specific gravity** : 1.154
- Other information**

10. STABILITY AND REACTIVITY

- Stability of the preparation** : Stable under normal condition.
- Hazardous reactions** : None under normal conditions.
- Conditions to avoid** : Open flame. Sparks. Overheating.
- Materials to avoid** : Oxidizing agents. Strong acids, bases.
- Hazardous decomposition products** : None under normal conditions.

11. TOXICOLOGICAL INFORMATION

- Routes of exposure** : Inhalation, ingestion, skin contact, eye contact
- Acute Effects**
- **Inhalation** : Unlikely to present an inhalation hazard at normal ambient temperatures. May be harmful by inhalation if exposure to mists, vapours or fumes resulting from thermal decomposition occurs.
 - **Ingestion** : Harmful if swallowed.
 - **Skin contact** : Not expected to be a primary skin irritant. Prolonged or repeated exposure may lead to dermatitis.



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11. TOXICOLOGICAL INFORMATION (continued)

- Eye Contact : Unlikely to cause harm if accidental eye contact occurs apart from slight eye irritation
- Sensitization : No sensitization effects known.
- Repeated dose toxicity : No data available.
- Chronic/ other effects
- Carcinogenicity : 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.
- Mutagenicity : No data available.
- Reproductive toxicity : No data available.

12. ECOLOGICAL INFORMATION

- Ecological effects information : Adverse effects to the environment are not expected from this product
- Ecotoxicity : Not expected to be toxic.
- Mobility : Ground water contamination may be caused through spillages
- Persistence and degradability : No data available.
- Bioaccumulative potential : low
- Results of PBT assessment : No data available.
- Other adverse effects : None identified

13. DISPOSAL CONSIDERATIONS

- Waste disposal : Dispose in a safe manner in accordance with local/national regulations.
- Waste-disposal procedures : See Directive 2001/118/EC
- Industrial waste number (EURAL) : 16 01 15 - Antifreeze fluids other than those mentioned in 16 01 14
- Contaminated packaging : Do not attempt to refill or clean containers without proper instructions. Do not cut , pressurise, weld, braze, solder, drill, grind or expose such containers to the heat, flame, sparks, static electricity or other sources of ignition. They may explode and cause injury or death.

14. TRANSPORT INFORMATION

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



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15. REGULATORY INFORMATION

Symbol(s) : Harmful.
R Phrase(s) : R22 : Harmful if swallowed.
S Phrase(s) : S2 : Keep out of the reach of children.
S23 : Do not breathe spray.
S46 : If swallowed seek medical advice immediately and show this container or label.
S51 : Use only in well-ventilated areas.
Special Labelling : Material Safety Data Sheet available for professional users on request. Ethanediol

16. OTHER INFORMATION

List of relevant R phrases contained in sections 2 and 3 of this document (for information only). : R22 : Harmful if swallowed.
Further information : Specifications and technical informations on the product may be obtained by your dealer.
Revision Indicators : None.
Sources of key data used : CONCAWE and relevant EC Regulations

The contents and format of this MSDS are in accordance with Regulation (EC) Np 1907/2006 of the European Parliament and of the Council.

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