



MATERIAL SAFETY DATA SHEET

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Revision nr : 0

Date : 13 / 4 / 2009

Supersedes : 0 / 0 / 0

Gulf Super Duty VLE**02122**

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

Identification of substance or preparation : Gulf Super Duty VLE (SAE 15W-40)
Use of the substance/ preparation : Lubricating oil for diesel engines
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 : Not a dangerous preparation according to 1999/45/EC.
Most important adverse human health effects : None under normal conditions.
Most important adverse environmental effects : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Other hazards : May produce an allergic reaction

3. COMPOSITION/ INFORMATION ON INGREDIENTS

This product is not considered to be hazardous but contains hazardous components.

Composition of the preparation : Mixture of highly refined mineral base oils (PCA-content < 3 % - IP 346) and additives.

Substance name	Value(s)	CAS nr	EINECS nr	EC index	CERTIFICATE
Zinc alkyl dithiophosphate	1 - 2 %	68649-42-3	272-028-3	-----	Xi; R36/38 N; R51-53
Olefine sulphide	0.5 - 1 %	-----	273-103-3	-----	R43 R53
Alkyl phenol	0.1 - 0.15 %	-----	-----	-----	Xn; R62 Xi; R38 N; R50-53

4. FIRST AID MEASURES

- 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 : DO NOT INDUCE VOMITING. Seek medical attention immediately.
Other Information : If there is any suspicion of aspiration into the lungs either directly or as a result of vomiting, obtain medical advice.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water fog. Carbon dioxide. Dry chemical. Foam. Sand.
Extinguishing media which shall not be used : Do not use a heavy water stream.



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5. FIRE-FIGHTING MEASURES (continued)

- Special exposure hazards** : None under normal conditions.
- Surrounding fires** : Use water spray or fog for cooling exposed containers.
- Special protective equipment for fire-fighters** : Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA).
- 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.
- 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.
- 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 CONTROL/ PERSONAL PROTECTION

- Exposure limit values** : according to TWA (TLV) ACGIH : 3 mg/m³ for oil mist.
- 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** : No special clothing/skin protection equipment is recommended under normal conditions of use.
- 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.



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9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state : Oily liquid.
- Colour : Amber.
- Odour : Characteristic.
- Pour point [°C] : -42
- Density : 0.865
- Viscosity at 100°C [mm²/s] : 14.56
- Flash point [°C] : 228

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** : Carbon dioxide. Carbon monoxide. Hydrogen sulfide.
- Hazardous Polymerization** : Will not occur.

11. TOXICOLOGICAL INFORMATION

- Acute Effects** : Not expected to be toxic.
- Inhalation : Practically non toxic at normal conditions of usage. May cause respiratory irritation following prolonged or repeated inhalation of excessive oil mist and vapours.
- Ingestion : Practically non toxic if swallowed in small doses. Larger quantities may cause nausea & diarrhoea.
- Skin contact : Not expected to be a primary skin irritant. Prolonged or repeated exposure may lead to dermatitis.
- Carcinogenicity : No data available.
- Mutagenicity : Not expected to be a mutagenic hazard

12. ECOLOGICAL INFORMATION

- Ecological effects information** : Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment.
- Mobility** : Ground water contamination may be caused through spillages
- Bioaccumulative potential** : Not determined.

13. DISPOSAL CONSIDERATIONS

- Waste disposal** : Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container at hazardous or special waste collection point. S29/56 : Do not empty into drains, dispose of this material and its container to hazardous or special waste collection point.



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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

Symbol(s) : None.
R Phrase(s) : R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S Phrase(s) : S29/35 : Do not empty into drains ; dispose of this material and its container in a safe way.
S29/56 : Do not empty into drains, dispose of this material and its container to hazardous or special waste collection point.
S59 : Refer to manufacturer/supplier for information on recovery/recycling.
S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.

16. OTHER INFORMATION

List of relevant R phrases contained in sections 2 and 3 of this document (for information only). : R36/38 : Irritating to eyes and skin.
R38 : Irritating to skin.
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62 : Possible risk of impaired fertility.

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

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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