



MATERIAL SAFETY DATA SHEET

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Revision nr : 2

Date : 27 / 2 / 2008

Supersedes : 21 / 5 / 2006

Gulf Gear MZ**03110**

1. Identification of the product and the company

Trade name : Gulf Gear MZ (SAE 80W, SAE 80W-90, SAE 85W-90 & SAE 90)
Use : Gear Oil
Company identification : Gulf Oil Corporation Limited, IN Centre, 12th Road, Marol, Andheri (East), Mumbai – 400 093
Emergency phone nr : +91 22 66487777
- Company : As above

2 Hazards identification

Main hazards : Not a dangerous preparation according to 1999/45/EC
Adverse human health effects : None under normal conditions.
Environmental hazards : No specific risk for the environment.
Note : May produce an allergic reaction

3 Information on ingredients

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

Substance name	Value(s)	CAS nr	EINECS nr	EC index	CERTIFICATE
Olefine sulphide	: < 2.8 %	----	----	----	R52
Phosphoric acid ester amine salt	: < 1.2 %	----	----	----	N; R51-53
Alkyl phosphate	: < 0.2 %	----	----	----	C; R34
Long chain alkenyl amine	: < 0.2 %	----	----	----	Xn; R22 C; R35 N; R50
Alkyl phosphonate	: < 0.4 %	----	----	----	Xi; R38-41 N; R51-53
Alkyl dithiophosphate	: < 0.4 %	----	----	----	
Alkyl amine	: < 0.2 %	----	----	----	Xn; R22 C; R34 N; R50
Long-chain alkyl dithiothiadiazole	: < 0.2 %	----	----	----	R43
Alkenyl amine	: < 0.4 %	----	204-015-5	----	Xn; R22 C; R34 R43 N; R50
Substituted thiadiazol	: < 0.2 %	----	300-298-5	----	Xi; R38-41 R43 R52-53
Propan-2-ol	: < 0.1 %	67-63-0	200-661-7	603-117-00-0	F; R11 R67 Xi; R36
Alkenyl amide	: < 0.1 %	----	----	----	R53
Hydrocarbon-solvents (Aromatic)	: < 0.1 %	64742-95-6	265-199-0	----	R10 Xn; R65 Xi; R36 N; R51-53
1,2,4-trimethylbenzene	: < 0.1 %	95-63-6	202-436-9	601-043-00-3	R10 Xn; R20 Xi; R36/37/38



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3 Information on ingredients (continued)

N; R51-53

4. First aid measures

- Inhalation : Remove exposed person to fresh air if adverse effects are observed. If breathing is labored, administer oxygen. If breathing has stopped apply artificial respiration.
- Skin contact : Wash with soap and water. Immediately remove contaminated clothing. Get medical attention if irritation develops. Launder contaminated clothing before reuse and discard shoes and other leather articles.
- Eye contact : Flush with water at least 30 minutes. Get medical attention if eye irritation develops or persists.
- Ingestion : DO NOT INDUCE VOMITING. If conscious, give 2 glasses of water. Get immediate medical attention.
- Note to physician : Treat symptomatically

5. Fire - fighting measures

- Suitable extinguishers : Water fog. Carbon dioxide. Dry chemical. Foam. Sand.
- Extinguishers not to be used : Do not use a heavy water stream.
- Surrounding fires : Use water spray or fog for cooling exposed containers.
- Special exposure hazards : None under normal conditions.
- Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.
- 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.
- After spillage and/or leakage : 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.



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8. Exposure controls / personal protection

Personal protection

- **Respiratory protection** : No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.
 - **Hand protection** : Use neoprene or rubber gloves.
 - **Skin protection** : No special clothing/skin protection equipment is recommended under normal conditions of use.
 - **Eye protection** : Safety glasses.
- Industrial hygiene** : Provide local exhaust or general room ventilation to minimize dust and/or vapour concentrations. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

9. Physical and chemical properties

- Physical state** : Liquid
- Colour** : Amber
- Odour** : Pungent
- Pour point [°C]** : -30 to -18
- Viscosity at 100°C [mm²/s]** : 9.9 to 16.6
- Flash point [°C]** : 202 to 238
- Specific gravity** : 0.89 to 0.9

10. Stability and reactivity

- Physico-chemical stability** : Stable.
- 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 reactions** : None under normal conditions.
- Hazardous Polymerization** : Will not occur.

11. Toxicological information

- Acute toxicity** : 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.
- **Dermal** : Not expected to be a primary skin irritant. Prolonged or repeated exposure may lead to dermatitis.
- **Ingestion** : Practically non toxic if swallowed in small doses. Larger quantities may cause nausea & diarrhoea.

- Carcinogenicity** : No data available.
- Mutagenicity** : Not expected to be a mutagenic hazard



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12. Ecological information

Ecological effects information : Adverse effects to the environment are not expected from this product
Bioaccumulative potential : Not determined.
Mobility soil : Ground water contamination may be caused through spillages

13. Disposal considerations

Disposal : Dispose in a safe manner in accordance with local/national regulations.

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) : None.
S Phrase(s) : None.
Additional phrase(s) : Contains : - Alkenyl amine - Substituted thiazol - Long-chain alkyl dithiothiazole. May produce an allergic reaction.

16. Other information

R-phrases listed in chapter 2 : R10 : Flammable.
R11 : Highly flammable.
R20 : Harmful by inhalation.
R22 : Harmful if swallowed.
R34 : Causes burns.
R35 : Causes severe burns.
R36 : Irritating to eyes.
R36/37/38 : Irritating to eyes, respiratory system and skin.
R38 : Irritating to skin.
R41 : Risk of serious damage to eyes.
R43 : May cause sensitization by skin contact.
R50 : Very toxic to aquatic organisms.
R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52 : Harmful to aquatic organisms.
R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53 : May cause long-term adverse effects in the aquatic environment.
R65 : Harmful : may cause lung damage if swallowed.
R67 : Vapours may cause drowsiness and dizziness.

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



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16. Other information (continued)

Note

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

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