



MATERIAL SAFETY DATA SHEET

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Revision nr : 3

Date : 13 / 5 / 2009

Supersedes : 22 / 11 / 2006

Gulf Harmony AW**10103**

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

Identification of substance or preparation : Gulf Harmony AW (ISO VG 10, 15, 22, 32, 46, 68, 100, 150, 220, 320, 460)
Use of the substance/ preparation : Hydraulic Oil
Company/ undertaking identification : Gulf Oil Corporation Ltd., IN Centre, 12th Road, Marol, Andheri (E), Mumbai - 400 093
Emergency telephone : +91 2266487777

2. HAZARDS IDENTIFICATION

Classification of the substance or preparation : Not a dangerous preparation according to 1999/45/EC.
Most important adverse physicochemical effects : No adverse hazards.
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.
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 : 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 dialkyl dithiophosphate	: 0.1 - 0.8 %	68649-42-3	272-028-3	----	Xi; R41 N; R51-53
Sterically hindered phenol	: 0.01 - 0.4 %	----	----	----	N; R51-53
Long-chain alkenyl succinimide	: 0.09 - 0.3 %	----	----	----	
Alkyl phenol	: 0.07 - 0.3 %	----	----	----	Xn; R62 Xi; R38 N; R50-53
Dithiophosphoric acid ester	: 0.05 - 0.2 %	----	----	----	N; R51-53

Other information : See section 16 for full text of all 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.



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4. FIRST AID MEASURES (continued)

- 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 : Dry chemical. Water fog. Foam. Carbon dioxide. Sand.
- 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 container closed when not in use. Keep at temperature not exceeding 45°C. Keep only in the original container in a cool, well ventilated place.
- Handling : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.
- Specific use(s) : Hydraulic Oil

8. EXPOSURE CONTROL/ PERSONAL PROTECTION

- Exposure limit values : According to TWA (TLV) ACGIH : 5 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.



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8. EXPOSURE CONTROL/ PERSONAL PROTECTION (continued)

- **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.
- Environmental exposure controls** : See sections 6, 7, 12, 13.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

- **Physical state** : Liquid.
- **Colour** : Amber.
- **Odour** : Mild.

Important health, safety and environmental information

- **Pour point [°C]** : -30 to -12
- **Flash point [°C]** : 136 to 248

Other information

10. STABILITY AND REACTIVITY

- Stability of the preparation** : Stable under normal condition.
- Hazardous reactions** : No hazardous reaction at ambient temperatures.
- 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** : 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.
- **Eye Contact** : May cause mild, short-lasting discomfort to eyes. Based on test data for structurally similar materials.
- Sensitization** : No sensitization effects known.
- Repeated dose toxicity** : No data available.
- **Carcinogenicity** : No data available.



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11. TOXICOLOGICAL INFORMATION (continued)

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

12. ECOLOGICAL INFORMATION

- Ecological effects information** : Avoid release to the environment. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Ecotoxicity** : Not expected to be toxic.
- Mobility** : Ground water contamination may be caused through spillages
- Persistence and degradability** : Base oil component - Expected to be inherently biodegradable.
- Bioaccumulative potential** : Not determined.
- Results of PBT assessment** : No data available.
- Other adverse effects** : None identified

13. DISPOSAL CONSIDERATIONS


- Waste disposal** : S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets. Dispose in a safe manner in accordance with local/national regulations.
- Waste-disposal procedures** : See Directive 2001/118/EC
- Industrial waste number (EURAL)** : 13 02 05 - mineral-based non-chlorinated engine, gear and lubricating oils.
- 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.

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)** : S35 : This material and its container must be disposed of in a safe way.
S56 : Dispose of this material and its container to hazardous or special waste collection point.
S59 : Refer to manufacturer/supplier for information on recovery/recycling.

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15. REGULATORY INFORMATION (continued)

Special Labelling : Material Safety Data Sheet available for professional users on request.

16. OTHER INFORMATION

List of relevant R phrases contained in sections 2 and 3 of this document (for information only). : R38 : Irritating to skin.
R41 : Risk of serious damage to eyes.
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.

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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