



# MATERIAL SAFETY DATA SHEET

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Revision nr : 2

Date : 22/11/2006

Supersedes : 26/10/2006

**Gulf Harmony AW****10103**

## 1. Identification of the product and the company

**Trade name** : Gulf Harmony AW ( ISO VG 10, 15, 22, 32, 46, 68, 100, 150, 220, 320 & 460)  
**Use** : Hydraulic Oil  
**Company identification** : Gulf Oil Corporation Limited, IN Centre, 12<sup>th</sup> Road, Marol, Andheri (East), Mumbai – 400 093  
**Emergency phone nr** : +91 2266487777  
**- Company** : As above

## 2. 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
Zinc dialkyl dithiophosphate	: 0.25 - 0.51 %	68649-42-3	-----	-----	Xi; R36/38
Alkyl phenol	: < 0.2 %	-----	-----	-----	Xi; R38 N; R50-53
Long-chain alkenyl succinimide	: < 0.1 %	-----	-----	-----	
Calcium alkaryl sulphonate	: < 0.05 %	-----	-----	-----	Xi; R36/38 R43
Alkylated diphenylamines	: < 0.05 %	-----	-----	-----	N; R51-53
Dithiophosphoric acid ester	: < 0.1 %	-----	-----	-----	R53
Sterically hindered phenol	: < 0.25 %	-----	-----	-----	N; R51-53

## 3. Hazards identification

**Main hazards** : Not classified as a dangerous preparation according to 1999/45/EC.  
**Adverse human health effects** : None under normal conditions.  
**Environmental hazards** : No specific risk for the environment.

## 4. First aid measures

**- Inhalation** : Assure fresh air breathing. Obtain medical attention if breathing difficulty persists.  
**- Skin contact** : 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.  
**- Eye contact** : Rinse immediately with plenty of water. Seek medical attention if irritation develops.  
**- Ingestion** : DO NOT INDUCE VOMITING. Seek medical attention immediately.  
**Note to physician** : 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 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



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## 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.

## 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. 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.
- Occupational Exposure Limits** : according to TWA (TLV) ACGIH : 3 mg/m<sup>3</sup> for oil mist.

## 9. Physical and chemical properties

- Physical state** : Liquid
- Colour** : Amber
- Odour** : Mild
- Pour point [°C]** : -30 to -3
- Viscosity at 40°C [mm<sup>2</sup>/s]** : 10 to 460
- Flash point [°C]** : 136 to 280
- Specific gravity** : 0.845 to 0.905

## 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.



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## 11. Toxicological information

<b>Acute toxicity</b>	: Not expected to be toxic.
- Inhalation	: Practically Non Toxic
- Dermal	: Not expected to be a primary skin irritant. Prolonged or repeated exposure may lead to dermatitis.
- Ingestion	: Practically Non Toxic
<b>Eyes irritation (rabbit)</b>	: Non Irritating
<b>Chronic toxicity</b>	: Not expected to be toxic.
<b>Sensitization</b>	: No sensitization effects known.
<b>Mutagenicity</b>	: Not expected to be a mutagenic hazard

## 12. Ecological information

<b>Ecological effects information</b>	: No specific risk for the environment.
<b>Bioaccumulative potential</b>	: Not determined.
<b>Mobility soil</b>	: Ground water contamination may be caused through spillages

## 13. Disposal considerations

<b>Disposal</b>	: Dispose in a safe manner in accordance with local/national regulations.
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## 14. Transport information

<b>General information</b>	: Not regulated.
- UN No.	: Not regulated
- ADR/RID	: Not regulated.
- IMO-IMDG code	: Not regulated.
- ICAO/IATA	: Not regulated.

## 15. Regulatory information

<b>Symbol(s)</b>	: None.
<b>R Phrase(s)</b>	: None.
<b>S Phrase(s)</b>	: None.

## 16. Other information

<b>R-phrases listed in chapter 2</b>	: R36/38 : Irritating to eyes and skin. R38 : Irritating to skin. R43 : May cause sensitization by skin contact. 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. R53 : May cause long-term adverse effects in the aquatic environment. R62 : Possible risk of impaired fertility.
<b>Product information</b>	: For specific or detailed technical data for this product, please contact your local sales representative.
<b>Note</b>	: To the best of our knowledge and belief, the information and recommendations provided in this MSDS are correct. We make no warranty whatsoever, expressed or implied of merchantability or fitness for the particular purpose, regarding the accuracy of such data or the results to be obtained from the use thereof. We do not assume any liability for consequences of the uses of this information since it may be applied under conditions beyond our control or knowledge. The information is



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## 16. Other information (continued)

furnished on the condition that the recipients shall make their own decision as to safety and suitability of the material for their purposes. We will not be responsible for damages of any nature resulting from the use or reliance upon the information and recommendations. If you have purchased this product for supply to a third party, it is your duty to pass on to that third party the information given in this Data Sheet. If the third party is not an employer it is his duty to pass the information given in the Data Sheet to the employer of whoever uses or handles this product. It is an employer's duty to advise and instruct his employees handling this product (and others who may be affected) , of any hazards described in the Data Sheet and of any precautions which should be taken to ensure safe handling of the product.

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

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