



MATERIAL SAFETY DATA SHEET

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Harmony AW Max**IND-AL C0 11**

1. Identification of the product and the company

Trade name : Harmony AW Max. (ISO 32)
Use : Hydraulic Oil
Company identification : Gulf Oil Corporation Limited,
IN Centre,
12th Road,
Marol, Andheri (East)
Mumbai - 400 093

www.gulfoilltd.com
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.
Symptoms relating to use
- Inhalation : Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
- Skin contact : Not expected to present a significant skin hazard under anticipated conditions of normal use.
- Eye contact : Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
- Ingestion : Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

3 Information on ingredients

Composition (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
Calcium alkaryl sulphonate	< 0.009	----	----	----	Xi; R36/38 R43
Zinc dialkyl dithiophosphate	0.25 - 0.51	68649-42-3	----	----	Xi; R36/38
Alkyl phenol	0.085 - 0.17	----	----	----	Xn; R62 Xi; R38 N; R50-53

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



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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. See also hazardous reactions § 10.
- 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 diposal. 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. 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/m³ for oil mist.

9. Physical and chemical properties

- Physical state** : Liquid.
- Colour** : Amber.
- Odour** : Mild.
- Pour point [°C]** : -9
- Viscosity at 40°C [mm²/s]** : 32
- Solubility in water** : Negligible.
- Flash point [°C] (ASTM D 92)** : 180
- Specific gravity** : 0.87

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
- **Dermal** : Not expected to be a primary skin irritant. Prolonged or repeated exposure may lead to dermatitis.
- **Ingestion** : Practically Non Toxic
- Eyes irritation (rabbit)** : Non Irritating



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11. Toxicological information (continued)

Chronic toxicity	: Not expected to be toxic.
Sensitization	: No sensitization effects known.
Carcinogenicity	: No data available. 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	: Not expected to be a mutagenic hazard

12. Ecological information

Ecological effects information	: Adverse effects to the environment are not expected from this product
Persistence and degradability	: Inherently Biodegradable
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.
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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

EC Labelling	: Not classified.
Regul./ EINECS	: All components are in compliance with the EC Seventh amendment Directive 92/32/EEC
Canada	: In compliance (DSL)
SARA - USA	: Section 311 and 312 hazards classification(s) : None
US Toxic Substances Control Act - TSCA	: In compliance
Australian Inventory of Chemical Substances (AICS)	: In compliance
OSHA hazardous chemical(s)	: Not classified as hazardous in accordance with OSHA 29 CFR 1910.1200



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16. Other information

- R-phrases listed in chapter 2** : 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.
R62 : Possible risk of impaired fertility.
- Product information** : For specific or detailed technical data for this product, please contact your local sales representative.
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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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