



LUBRICANTS

Gulf Harmony[®] AW Hydraulic Fluid

SDS - Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Gulf Harmony[®] AW Hydraulic 22, 32, 46, 68, 100, 150
Other means of identification: Industrial Hydraulic Fluid
SDS Number: 334225, 334227, 334229, 334231, 334232, 334233
CAS Number: Blend
CHEMTREC: EMERGENCY CONTACT 1-800-424-9300

Supplier:
 Nu-Tier Brands, Inc., Tulsa, OK
 Under License from Gulf Oil LP
 TECHNICAL CONTACT NUMBER: 918-550-8026, Ext. 507
 www.gulflubricants.net

2. HAZARDS IDENTIFICATION

Classified Hazards This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.	Other Hazards None Known
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Label Elements

No classified hazards

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS	Concentration
Distillates, petroleum, solvent dewaxed heavy paraffinic	64742-65-0	0-95%
Distillates, petroleum, solvent-refined heavy paraffinic	64741-88-4	0-75%
Distillates, petroleum, hydrotreated heavy paraffinic	64742-54-7	0-45%
Distillates, petroleum, solvent-dewaxed light paraffinic	64742-56-9	0-30%
Non-Hazardous material	VARIOUS	<5%

The highly refined mineral oil contains <3% (w/w) DMSO-extract, according to IP346.

4. FIRST AID MEASURES

INHALATION FIRST AID: If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.

SKIN CONTACT FIRST AID: Wash with soap and water. Remove contaminated clothing and wash before reuse. Get medical attention if needed.

EYE CONTACT FIRST AID: Flush with water for several minutes. If effects occur, consult a physician.

INGESTION FIRST AID: Rinse mouth with water. If symptoms develop, obtain medical attention.

5. FIREFIGHTING MEASURES

NFPA 704 Hazard Class

Health: 0 Flammability: 1 Instability: 0



0 (Minimal)
 1 (Slight)
 2 (Moderate)
 3 (Serious)
 4 (Severe)



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Extinguishing Media: Dry chemical, carbon dioxide, foam, or water spray is recommended. Water or foam may cause frothing of materials heated above 212°F/100°C. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

Specific hazards arising from the chemical:

Unusual Fire & Explosion Hazards: This material may burn, but will not ignite readily. If container is not properly cooled, it can rupture in the heat of a fire.

Hazardous Combustion Products: Combustion may yield smoke, carbon monoxide, and other products of incomplete combustion. Oxides of sulfur, nitrogen or phosphorus may also be formed.

Special protective actions for firefighters: For fires beyond the initial stage, emergency responders in the immediate hazard area should wear protective clothing. When the potential chemical hazard is unknown, in enclosed or confined spaces, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done safely. Avoid spreading burning liquid with water used for cooling purposes.

See Section 9 for Flammable Property Including Flash Point

6. ACCIDENTAL RELEASE MEASURES

- Contain spilled material.
- Collect in suitable and properly labeled containers.
- Pick up excess with inert absorbent material.
- Keep away from drains and ground water.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS:

- Avoid contact with eyes, skin, or clothing.
- Keep away from sources of ignition.
- Handle with care and avoid spillage on the floor (slippage).

STORAGE REQUIREMENTS:

- Keep away from sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94).

PERSONAL PROTECTIVE EQUIPMENT:

Use of safety glasses and gloves are recommended.

Chemical Name	ACGIH	OSHA	Other
Distillates, petroleum, solvent-dewaxed heavy paraffinic	TWA: 5mg/m ³ STEL: 10mg/m ³ As Oil Mist, if Generated	TWA: 5mg/m ³ As Oil Mist, if Generated	
Distillates, petroleum, solvent-refined heavy paraffinic	TWA: 5mg/m ³ STEL: 10mg/m ³ As Oil Mist, if Generated	TWA: 5mg/m ³ As Oil Mist, if Generated	
Distillates, petroleum, hydrotreated heavy paraffinic	TWA: 5mg/m ³ STEL: 10mg/m ³ As Oil Mist, if Generated	TWA: 5mg/m ³ As Oil Mist, if Generated	
Distillates, petroleum, solvent-dewaxed light paraffinic	TWA: 5mg/m ³	TWA: 5mg/m ³	



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	STEL: 10mg/m ³ As Oil Mist, if Generated	As Oil Mist, if Generated	
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9. PHYSICAL AND CHEMICAL PROPERTIES

Note: Data represents typical values and are not intended to be specifications.

Appearance: Amber, Transparent	Flash Point: > 400 °F / > 204 °C (ASTM D92)
Physical Form: Liquid	Test Method: Cleveland Open Cup (COC), ASTM D92
Odor: Petroleum	Initial Boiling Point/Range: No data
Odor Threshold: No data	Vapor Pressure: <1 mm Hg
pH: Not applicable	Melting/Freezing Point: No data
Upper Explosive Limits (vol % in air): No data	Auto-ignition Temperature: No data
Lower Explosive Limits (vol % in air): No data	Decomposition Temperature: No data
Evaporation Rate (nBuAc=1): No data	Specific Gravity (water=1): 0.85-0.89 @ 60°F (15.6°C)
Particle Size: Not applicable	Bulk Density: 7.12-7.38 lbs/gal
Percent Volatile: No data	Viscosity: 3.0-16.0 cSt @ 100°C; 19.5-165.0 cSt @40°C
Flammability (solid, gas): Not applicable	Pour Point: < 5 °F / < -15 °C

10. STABILITY AND REACTIVITY

REACTIVITY: Not chemically reactive.

CHEMICAL STABILITY: Stable under normal ambient and anticipated conditions of use.

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous reactions not anticipated.

CONDITIONS TO AVOID: Avoid all possible sources of ignition. Extended exposure to high temperatures can cause decomposition.

INCOMPATIBLE MATERIALS: Avoid contact with strong oxidizing agents and strong reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Not anticipated under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

Conclusion/Summary: **Distillates (petroleum), hydrotreated heavy paraffinic:** Mineral oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects from single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipoid granuloma formation and lipoid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral oil mists at or near current work place exposure levels produced no significant toxicological effects.

Distillates (petroleum), solvent-dewaxed heavy paraffinic: Mineral oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects from single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipoid granuloma formation and lipoid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral oil mists at or near current work place exposure levels produced no significant toxicological effects.

Irritation/Corrosion

Skin: No additional information

Eyes: No additional information

Respiratory: No additional information

Sensitization

Skin: No additional information



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Respiratory: No additional information

Mutagenicity

Conclusion/Summary: No additional information

Carcinogenicity

Conclusion/Summary: No additional information

Reproductive toxicity

Conclusion/Summary: No additional information

Teratogenicity

Conclusion/Summary: No additional information

Specific target organ toxicity (single exposure)

Not available

Specific target organ toxicity (repeated exposure)

Not available

Aspiration hazard

Not available

Information on the likely

routes of exposure: Routes of entry anticipated: Dermal

Potential acute health effects

Eye contact: No known significant effects or critical hazards

Inhalation: No known significant effects or critical hazards

Skin contact: No known significant effects or critical hazards

Ingestion: No known significant effects or critical hazards

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: No specific data

Inhalation: No specific data

Skin contact: No specific data

Ingestion: No specific data

Potential chronic health effects

General: No known significant effects or critical hazards

Carcinogenicity: No known significant effects or critical hazards

Mutagenicity: No known significant effects or critical hazards

Teratogenicity: No known significant effects or critical hazards

Developmental effects: No known significant effects or critical hazards

Fertility effects: No known significant effects or critical hazards

12. ECOLOGICAL INFORMATION

Toxicity

Conclusion/Summary: Avoid exposing to the environment, no specific aquatic data available.

Persistence and degradability

Conclusion/Summary: Not available

Bioaccumulative potential: Not available

Mobility in soil

Soil/water partition: Not available

Other adverse effects: No known significant effects or critical hazards

13. DISPOSAL CONSIDERATIONS



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DISPOSAL METHODS:

Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste.

These products, if discarded, are not expected to be a characteristic or listed hazardous waste. If recycled as used oil in the USA, they can be managed in accordance with the used oil exemption under 40 CFR Part 279. Processing, use, or contamination by the user may change the waste code(s) applicable to the disposal of these products.

14. TRANSPORTATION INFORMATION

U.S. Department of Transportation (DOT)

UN Number: Not regulated

UN proper shipping name: None

Transport hazard class(es): None

Packing Group: None

Environmental Hazards: This product does not meet the ADG/UN/IMDG/IMO criteria of a marine pollutant. Special precautions for user: If shipped by land in a packaging having a capacity of 3,500 gallons or more, the provisions of 49 CFR, Part 130 apply. (Contains oil)

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

15. REGULATORY INFORMATION

CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs (in pounds)

This material does not contain any chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372.

CERCLA/SARA - Section 311/312 (Title III Hazard Categories)

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CERCLA/SARA - Section 313 and 40 CFR 372

This material does not contain any chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372.

EPA (CERCLA) Reportable Quantity (in pounds)

This material does not contain any chemicals with CERCLA Reportable Quantities.

California Proposition 65

This material does not contain any chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm at concentrations that trigger the warning requirements of California Proposition 65.

International Inventories

All components are either listed on the US TSCA Inventory, or are not regulated under TSCA.

All components are either on the DSL, or are exempt from DSL listing requirements.

16. OTHER INFORMATION

The data in this Material Safety Data Sheet relates only to the specific material designated herein.

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Nu-Tier Brands, Inc.. The data on this sheet are related only to the specific material designated herein. Nu-Tier Brands, Inc. assumes no legal responsibility for use or reliance upon these data.

END OF MSDS