



Gulf Harmony[®] AW-HD Hydraulic Fluid SDS - Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Gulf Harmony[®] AW-HD Hydraulic Fluid 100, 150, 220, 320

Other means of identification: Antiwear Hydraulic Fluid

SDS Number: 334400, 334402, 334404, 334406

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

OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Classification of the substance or mixture: SERIOUS EYE DAMAGE/EYE IRRITATION – Category 2A

GHS label elements

Hazard pictograms:



Signal word: Warning
Hazard statements: Causes serious eye irritation.

Precautionary statements

General: Keep out of reach of children.
Prevention: Wear eye or face protection. Wash hands thoroughly after handling.
Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage: Store in a dry place and/or in closed container. Store in accordance with all local, regional, national and international regulations.
Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise

Classified: None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Mixture
Other means of identification: Heavy duty hydraulic fluid

Ingredient name	%	CAS number
Distillates (petroleum), hydrotreated heavy paraffinic	>75 - <90	64742-54-7
Residual oils (petroleum), solvent-dewaxed	>10 - <25	64742-62-7
Zinc and zinc compounds	0.5 – 1.5	68649-42-3

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.



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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: 1

Flammability: 0

Instability: 0



0 (Minimal)

1 (Slight)

2 (Moderate)

3 (Serious)

4 (Severe)

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. 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.

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



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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.

9. PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance: Amber
Physical State: Liquid
Viscosity: 10-25 cSt @ 100°C; 95-330 cSt @ 40°C
Solubility: Nil in water
Flash Point: >400°F / >204°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.

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Irritation/Corrosion

Skin: No additional information
Eyes: No additional information
Respiratory: No additional information

Sensitization

Skin: No additional information
Respiratory: No additional information

Mutagenicity

Conclusion/Summary: No additional information

Carcinogenicity

Conclusion/Summary: No additional information

Reproductive toxicity



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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: Not available

Persistence and degradability

Conclusion/Summary: Not available

Bioaccumulative potential: Not available

Mobility in soil

Soil/water partition: Not available

coefficient (K_{oc})

Other adverse effects: No known significant effects or critical hazards

13. DISPOSAL CONSIDERATIONS

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,



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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

Emergency Response Guide Number: Not applicable.
DOT Shipping Name: Not regulated as a hazardous material.
TDG Shipping Name: Not regulated as a dangerous good.

15. REGULATORY INFORMATION

Volatile Organic Compounds (As Regulated):

Negligible as per U.S EPA 40 CFR 51.100(s)

Federal Regulations

SARA 302/304

Component Analysis:

Based on the ingredient(s) listed in SECTION 3, this product does not contain any "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.

SARA 311/312 Hazardous Categories:

Acute Health: No **Chronic Health:** No **Fire:** No **Pressure:** No **Reactive:** No

SARA Section 313

Component Analysis:

This product does not contain any "toxic" chemical subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

CERCLA

Component Analysis

Based on the ingredient(s) listed in SECTION 3, this product does not contain any "hazardous substance" listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4.

TSCA Inventory

All the components of these products are listed on, or are automatically included as "naturally occurring chemical substances" on, or are exempted from the requirement to be listed on, the TSCA Inventory.

U.S. State Regulations

None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA.

No component(s) are listed under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65).

Canadian Regulations

These products have been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR.

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