SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Product Name: MFA OIL GP HYDRAULIC
Product Code: FA25UN22, FA25UN30, FA25UN55, UTF00007

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use: Universal Tractor Fluid
Recommended restrictions: Not applicable

1.3. Details of the supplier of the safety data sheet
Manufacturer: MFA Oil Company
One Ray Young Drive
Columbia, MO 65201
Information Phone: (800) 827-0116
E-mail: sds@wd-wpp.com

1.4. Emergency telephone number
Emergency phone number: CHEMTREC: +1 (800) 424-9300
International: +01 (703) 527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Hazardous to the aquatic environment - Acute Category 3

2.2. Label elements
Hazard Statements: H402 - Harmful to aquatic life.
Precautionary Statements: Prevention - P273 - Avoid release to the environment.
Disposal - P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards
Hazard not otherwise classified: Avoid prolonged or repeated skin contact with used fluid.

Unknown acute toxicity (GHS-US)

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>%</th>
<th>CAS #</th>
<th>GHS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum distillates, hydrotreated heavy paraffinic</td>
<td>90 - 99</td>
<td>64742-54-7</td>
<td>Acute Tox. 4; H332</td>
</tr>
<tr>
<td>Benzene, polypropene derivatives, sulfonated, calcium salts</td>
<td>0.5 - 1.5</td>
<td>75975-85-8</td>
<td>Eye Irrit. 2; H319</td>
</tr>
<tr>
<td>Zinc, bis[O, O-bis(2-ethylhexyl) phosphorodithioato-S,S&quot;]-, (T-4)-</td>
<td>0.5 - 1.5</td>
<td>4259-15-8</td>
<td>Eye Dam. 1; H318</td>
</tr>
<tr>
<td>C14-18 alpha-olefin epoxide, reaction products with boric acid</td>
<td>0.1 - 1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Components not listed are not physical or health hazards as defined in 29 CFR 1910.1200 (Hazard Communication Standard).

SECTION 4: First aid measures

4.1. Description of first aid measures
SAFETY DATA SHEET

SECTION 4: First aid measures
Inhalation  Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately.
Eyes  Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.
Skin Contact  Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists. Seek medical advice if symptoms persist.
Ingestion  Do not induce vomiting and seek medical attention immediately. Provide medical care provider with this SDS.
4.2. Most important symptoms and effects, both acute and delayed
Symptoms  Not determined
4.3. Indication of any immediate medical attention and special treatment needed
Note to Doctor  Aspiration during swallowing or vomiting may severely damage the lungs. If evacuation of stomach contents is necessary, use method least likely to cause aspiration.

SECTION 5: Firefighting measures
5.1. Extinguishing media
Suitable and Unsuitable  Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire. Do not direct a stream of water into the hot burning liquid.
Extinguishing Media:
5.2. Special hazards arising from the substance or mixture
Fire and/or Explosion  Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire.
5.3. Advice for firefighters
Fire Fighting Methods and Protection  Do not enter fire area without proper protection including self- contained breathing apparatus and full protective equipment. Use methods for the surrounding fire.
Hazardous Combustion Products  Carbon monoxide, Smoke, Carbon dioxide, Phosgene, Toxic fumes., Toxic gases

SECTION 6: Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures
General Measures:  No data available.
6.2. Environmental precautions
Do not flush to sewer.
Avoid runoff into storm sewers and ditches that lead to waterways.
Remove from water surface by skimming or with suitable absorbents. Do not use dispersants.
Avoid runoff into storm sewers and ditches that lead to waterways.
6.3. Methods and material for containment and cleaning up
Methods for cleaning up:  Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so.
Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Dispose of according to Federal, State, Local, or Provincial regulations. Used fluid should be disposed of at a recycling center. [EMSFORM_06GHS_CLEAN]
6.4. Reference to other sections
Follow all protective equipment recommendations provided in Section 8.
SAFETY DATA SHEET

SECTION 7: Handling and storage

7.1. Precautions for safe handling
No special handling instructions due to toxicity.

7.2. Conditions for safe storage, including any incompatibilities
Store in a cool dry place. Isolate from incompatible materials.

Incompatible materials
See Section 10.

7.3. Specific end use(s)
Universal Tractor Fluid

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Occupational Exposure Limits</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil mist, mineral</td>
<td>OSHA PEL</td>
<td>5 mg/m3</td>
</tr>
<tr>
<td>Oil mist, mineral</td>
<td>ACGIH TLV-TWA</td>
<td>5 mg/m3</td>
</tr>
<tr>
<td>Oil mist, mineral</td>
<td>ACGIH STEL</td>
<td>10 mg/m3</td>
</tr>
<tr>
<td>None.</td>
<td>IDLH</td>
<td></td>
</tr>
<tr>
<td>None.</td>
<td>OSHA PEL-Skin Notation</td>
<td></td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Engineering Measures
Use local exhaust ventilation or other engineering controls to minimize exposures and maintain operator comfort.

Respiratory Protection
Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.

Respirator Type(s)
None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

Eye Protection
Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.

Skin Protection
Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves
Neoprene, Nitrile

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Purple</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH</td>
<td>Not determined</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flash Point</td>
<td>224</td>
</tr>
<tr>
<td>Flash Point Method</td>
<td>COC</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not determined</td>
</tr>
<tr>
<td>Upper Flammable/Explosive Limit, % in air</td>
<td>= 10</td>
</tr>
<tr>
<td>Lower Flammable/Explosive Limit, % in air</td>
<td>= 1</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>&lt;0.20</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not determined</td>
</tr>
<tr>
<td>Relative Density</td>
<td>0.87</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Negligible; 0-1%</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

SECTION 9: Physical and chemical properties
9.1. Information on basic physical and chemical properties
Octanol/Water Partition Not determined
Coefficient  
Autoignition Temperature Not determined
Decomposition Temperature Not determined
Viscosity(°C) 59.44
9.2. Other information
Volatile, % by weight 0.00000

SECTION 10: Stability and reactivity
10.1. Reactivity No data available.
10.2. Chemical stability Stable under normal conditions.
10.3. Possibility of hazardous reactions Hazardous polymerization will not occur.
10.4. Conditions to avoid Temperatures above the high flash point of this combustible material in combination with sparks, open flames, or other sources of ignition. Moisture (will lead to product performance degradation). Contamination. Contact with water (reacts with water).
10.5. Incompatible materials Strong oxidizing agents, Moisture
10.6. Hazardous decomposition products Carbon monoxide, Smoke, Carbon dioxide, Phosgene, Toxic fumes., Toxic gases

SECTION 11: Toxicological information
11.1. Information on toxicological effects
Ingestion Toxicity No hazard in normal industrial use. Estimated to be 5.0 g/kg.
Skin Contact This material is likely to be moderately irritating to skin based on animal data. Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Absorption Likely to be practically non-toxic based on animal data.
Inhalation Toxicity No hazard in normal industrial use. Likely to be practically non-toxic based on animal data.
Eye Contact The material is likely to be moderately irritating to eyes based on animal data. Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.
Sensitization Non-hazardous under Respiratory Sensitization category. No data available to indicate product or components may be a skin sensitizer.
Mutagenicity No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.
Carcinogenicity Not expected to cause cancer. This product meets the IP-346 criteria of <3% PAH's and is not considered a carcinogen by the International Agency for Research on Cancer.
Reproductive and Developmental Toxicity No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Specific target organ toxicity-Single exposure Non-hazardous under Specific Target Organ Systemic Toxicity Single Exposure category.
Specific target organ toxicity-Repeated exposure Non-hazardous under Specific Target Organ Systemic Toxicity Repeated Exposure category.
Aspiration toxicity Non-hazardous under Aspiration category.
Other information No data available.

Agents Classified by IARC Monographs
Benzene IARC Group 1
Not applicable IARC Group 2A
Vinyl acetate IARC Group 2B
Naphthalene IARC Group 2B
ethylbenzene IARC Group 2B

National Toxicity Program (NTP) Status
Benzene Known Human Carcinogen
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Naphthalene Reasonably Anticipated To Be A Human Carcinogen

SECTION 12: Ecological information
12.1. Toxicity
Acute Aquatic ecotoxicity: Non-hazardous under Aquatic Acute Environment category.
Chronic Aquatic ecotoxicity: Non-hazardous under Aquatic Chronic Environment category.

12.2. Persistence and degradability
Biodegrades slowly.

12.3. Bioaccumulative potential
Bioconcentration may occur.

12.4. Mobility in soil
This material is expected to have essentially no mobility in soil. It absorbs strongly to most soil types.

12.5. Results of PBT and vPvB assessment
No data available.

12.6. Other adverse effects
Not determined

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Disposal Methods
Dispose of according to Federal, State, Local, or Provincial regulations. Recycle used oil.

Waste Disposal Code(s)
Waste Description for Spent Product
Spent or discarded material is non-hazardous according to environmental regulations.

Contaminated packaging:
Recycle containers whenever possible.
Recycle containers whenever possible.
Recycle containers whenever possible.
Recycle containers whenever possible.

SECTION 14: Transport information

DOT Basic Not classified as hazardous for transport (DOT, TDG, IMO/IMDG, IATA/ICAO).

SECTION 15: Regulatory information

Chemical Inventories
TSCA Status All components of this material are on the US TSCA Inventory or are exempt.
U.S. State Restrictions: Not applicable
WHMIS: Uncontrolled product according to WHMIS classification criteria.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Regulation</th>
<th>CAS #</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>None.</td>
<td>CERCLA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vinyl acetate</td>
<td>SARA 313</td>
<td>108-05-4</td>
<td>0.001-0.01</td>
</tr>
<tr>
<td>Naphthalene</td>
<td>SARA 313</td>
<td>91-20-3</td>
<td>0.001-0.01</td>
</tr>
<tr>
<td>Toluene</td>
<td>SARA 313</td>
<td>108-88-3</td>
<td>&lt;10ppm</td>
</tr>
<tr>
<td>Benzene</td>
<td>SARA 313</td>
<td>71-43-2</td>
<td>&lt;10ppm</td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>SARA 313</td>
<td>100-41-4</td>
<td>&lt;10ppm</td>
</tr>
<tr>
<td>None.</td>
<td>SARA EHS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>None.</td>
<td>TSCA 12b</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

U.S. State Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Regulation</th>
<th>CAS #</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphthalene</td>
<td>California Prop 65-</td>
<td>91-20-3</td>
<td>0.001-0.01</td>
</tr>
<tr>
<td>Benzene</td>
<td>California Prop 65-</td>
<td>71-43-2</td>
<td>&lt;10ppm</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Regulation</th>
<th>CAS #</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethylbenzene</td>
<td>California Prop 65- Cancer</td>
<td>100-41-4</td>
<td>&lt;10ppm</td>
</tr>
<tr>
<td>Toluene</td>
<td>California Prop 65- Dev. Toxicity</td>
<td>108-88-3</td>
<td>&lt;10ppm</td>
</tr>
<tr>
<td>Benzene</td>
<td>California Prop 65- Dev. Toxicity</td>
<td>71-43-2</td>
<td>&lt;10ppm</td>
</tr>
<tr>
<td>None.</td>
<td>California Prop 65- Reprod -fem</td>
<td>71-43-2</td>
<td>&lt;10ppm</td>
</tr>
<tr>
<td>Benzene</td>
<td>California Prop 65- Reprod-male</td>
<td>71-43-2</td>
<td>&lt;10ppm</td>
</tr>
<tr>
<td>None.</td>
<td>Massachusetts RTK List</td>
<td></td>
<td></td>
</tr>
<tr>
<td>None.</td>
<td>New Jersey RTK List</td>
<td></td>
<td></td>
</tr>
<tr>
<td>None.</td>
<td>Pennsylvania RTK List</td>
<td></td>
<td></td>
</tr>
<tr>
<td>None.</td>
<td>Rhode Island RTK List</td>
<td></td>
<td></td>
</tr>
<tr>
<td>None.</td>
<td>Minnesota Hazardous Substance List</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

HMIS Ratings:
- Health: 0
- Fire: 1
- Reactivity: 0
- PPE: B

NFPA Ratings:
- Health: 0
- Fire: 1
- Reactivity: 0

KEY: 0 - Least 1 - Slight 2 - Moderate 3 - High 4 – Extreme

SECTION 16: Other information

Revision Date: 4/2/2015 12:17:49 AM
Supersedes: 2/25/2015 4:41:56 PM
References:
- ACGIH: American Conference of Governmental Industrial Hygienists
- AIHA: American Industrial Hygiene Association
- CFR: Code of Federal Regulations
- DOT: United States Department of Transportation
- GHS: Globally Harmonized System of Classification and Labeling of Chemicals
- HMIS: Hazardous Materials Identification System
- IARC: International Agency for Research on Cancer
- IATA: International Air Transportation Association
- IDLH: Immediately Dangerous to Life or Health
- IMDG: International Maritime Dangerous Goods
- NFPA: National Fire Protection Association
- NIOSH: National Institute for Occupational Safety and Health
- NTP: National Toxicology Program
- OSHA: Occupational Safety and Health Administration
- PEL: Permissible Exposure Limit
- RTK: Right-to-Know
- SARA: Superfund Amendments and Reauthorization Act
- STEL: Short-term Exposure Limit
- TLV: Threshold limit value
- TSCA: Toxic Substances Control Act
- TWA: Time weighted average
- UN: United Nations
- WHMIS: Workplace Hazardous Materials Information System

Disclaimer:
This safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in the data sheet which we have received from outside sources and we believe the information to be correct, but cannot guarantee its accuracy or completeness.
SAFETY DATA SHEET

SECTION 16: Other information

Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product in a safe manner and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.