



# Safety Data Sheet

WORK HORSE INDUSTRIAL HYDRAULIC OIL AW ISO 100

Stock Number: 420017

Revision Date: 07-08-2019

Replaces:

## 1. Identification

Product identifier used on the label: **WORK HORSE INDUSTRIAL HYDRAULIC OIL AW ISO 100**  
Stock Number: 420017

Other means of identification:

Synonyms: No data available

Recommended use of the chemical and restrictions on use:

Recommended use: Hydraulic Oil

Restrictions on use: Uses other than those described above

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party: MFA Oil Company  
One Ray Young Drive  
Columbia, MO 65201

Phone number: (800) 827-0116

E-mail address: sds@wd-wpp.com

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

## 2. Hazard(s) identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200:

GHS Classification: Not classified as hazardous under OSHA

Hazards not otherwise classified: No data available

## 3. Composition/information on ingredients

Chemical Name	Common name and synonyms	CAS #	%
Not classified under GHS			

One or more hazardous ingredient(s) is claimed as a trade secret under the OSHA Hazard Communication Standard. The hazards of this (these) ingredient(s) are given on this SDS.

## 4. First-aid measures

Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion:

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen.

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<b>Eye Contact:</b>	None expected to be needed, however, use an eye wash to remove a chemical from your eye regardless of the level of hazard.
<b>Skin Contact:</b>	Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.
<b>Ingestion:</b>	No hazard in normal industrial use. Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this SDS.

**Most important symptoms/effects, acute and delayed:**

**Indication of immediate medical attention and special treatment needed, if necessary:**

No additional first aid information available.

## 5. Fire-fighting measures

**Suitable (and unsuitable) extinguishing media:**

**Suitable extinguishing media:** 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.

**Unsuitable extinguishing media:** No data available

**Specific hazards arising from the chemical:** No data available

**Hazardous combustion products:** Carbon monoxide, Smoke

**Special protective equipment and precautions for fire-fighters:** Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Use methods for the surrounding fire.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider

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the expertise of employees in the area responding to the spill.

## Methods and materials for containment and 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.

## 7. Handling and storage

### Precautions for safe handling:

Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well-ventilated area. Empty containers may retain product residues/ vapors. Use proper bonding and grounding during bulk product transfer. Follow all protective equipment recommendations provided in Section 8.

### Conditions for safe storage, including any incompatibilities:

#### Safe storage conditions:

Store in a cool dry place. Isolate from incompatible materials.

#### Materials to Avoid/Chemical Incompatibility:

Strong oxidizing agents

## 8. Exposure controls/personal protection

OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available:

Chemical component	OSHA PEL	ACGIH TLV	ACGIH STEL	IDLH
Petroleum distillates, hydrotreated heavy paraffinic	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	No data available

### Appropriate engineering controls:

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

### Individual protection measures, such as personal protective equipment:

#### 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

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concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

**Eye protection:**

No special requirements under normal industrial use.

**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

**General hygiene conditions:**

Follow all protective equipment recommendations provided in Section 8.

## 9. Physical and chemical properties

**Appearance (physical state, color etc.):**

**Physical state:**

Liquid

**Color:**

Amber

**Odor:**

Mild

**Odor Threshold:**

Not determined

**pH:**

No data available

**Melting point/freezing point:**

**Melting Point:**

No data available

**Freezing point:**

No data available

**Flash Point (°C):**

211

**Evaporation Rate:**

No data available

**Flammability (solid, gas):**

No data available

**Upper/lower flammability or explosive limits:**

**Upper flammability or explosive limits:**

Not established

**Lower flammability or explosive limits:**

Not established

**Vapor pressure:**

No data available

**Vapor density:**

No data available

**Relative density:**

0.87

**Solubility(ies):**

Negligible; 0-1%

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Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition Temperature:	Not determined
Viscosity:	100.8

## 10. Stability and reactivity

Reactivity:	There are no known reactivity hazards associated with this product.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	None expected under standard conditions of storage.
Conditions to avoid (e.g., static discharge, shock, or vibration):	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).
Incompatible materials:	Strong oxidizing agents
Hazardous decomposition products:	Carbon monoxide, Smoke

## 11. Toxicological information

**Description of the various toxicological (health) effects and the available data used to identify those effects:**

Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact):	Skin contact, Inhalation, Ingestion, Eye contact
Symptoms related to the physical, chemical and toxicological characteristics:	No data available

**Delayed and immediate effects and also chronic effects from short- and long-term exposure:**

Ingestion:	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:	Estimated to be > 5.0 g/kg; practically non-toxic
Inhalation:	No hazard in normal industrial use. Likely to be practically non-toxic based on animal data.
Eye Contact:	This material is likely to be non-irritating to eyes based on animal data.
Sensitization:	Non-hazardous under Respiratory Sensitization category.

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<b>Mutagenicity:</b>	No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.
<b>Carcinogenicity:</b>	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.
<b>STOT-single exposure:</b>	Based on available data, the classification criteria are not met.
<b>STOT-repeated exposure:</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard:</b>	Based on available data, the classification criteria are not met.
<b>Other information:</b>	None known.

## Numerical measures of toxicity (such as acute toxicity estimates):

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
No data available			

Is the hazardous chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA:

Chemical Name	OSHA Carcinogen	IARC Carcinogen	NTP Carcinogen
There are no components that are known or reported to cause cancer.			

## 12. Ecological information

**Ecotoxicity (aquatic and terrestrial, where available):** Severe ecological hazard. This product may be toxic to plants and/or wildlife.

### Ecological Toxicity Data:

Chemical Name	CAS #	Aquatic EC50 Crustacea	Aquatic ERC50 Algae	Aquatic LC50 Fish
2,6-Di-tert-butylphenol	128-39-2	Aquatic EC50 (48h) Daphnia 0.45 mg/L	No data available	No data available
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	Aquatic LC50 (48h) > 1000 mg/L	No data available	Aquatic LC50 (96h) Rainbow Trout > 5000 mg/L

**Persistence and degradability:** Biodegrades slowly.

**Bioaccumulative potential:** Bioconcentration may occur.

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

**Other adverse effects (such as hazardous to the ozone layer):** None known.

## 13. Disposal considerations

**Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:** Spent or discarded material is non-hazardous according to environmental regulations.

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

## 14. Transport information

**Carriage of dangerous goods by road (DOT), rail or inland waterways:**

**DOT Basic Description:** No data available

**International carriage of dangerous goods by sea (IMDG/IMO):**

**UN number:** Not regulated by IMDG

**UN Proper shipping name:** Not applicable

**Transport hazard class(es):** Not applicable

**Packing group, if applicable:** Not applicable

**International carriage of dangerous goods by air (IATA):**

**UN number:** Not regulated by IATA

**UN Proper shipping name:** Not applicable

**Transport hazard class(es):** Not applicable

**Packing group, if applicable:** Not applicable

**Environmental hazards (e.g., Marine pollutant (Yes/No)):** None.

**Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** No data available

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Special precautions which a user needs to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises: No data available

## 15. Regulatory information

Safety, health and environmental regulations specific for the product in question:

**TSCA Status:** All components of this material are on the US TSCA Inventory or are exempt.

**Regulated Components:**

Chemical Name	CAS #	CERCLA	Sara EHS	Sara 313	U.S. HAP
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	N	N	N	N
2,6-Di-tert-butylphenol	128-39-2	N	N	N	N

Chemical Name	CAS #	California Prop 65 - Cancer	California Prop 65 - Dev. Toxicity	California Prop 65 - Reprod fem	California Prop 65 - Reprod male
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	N	N	N	N
2,6-Di-tert-butylphenol	128-39-2	N	N	N	N

Chemical Name	CAS #	Massachusetts RTK List	New Jersey RTK List	Pennsylvania RTK List	Rhode Island RTK List	Minnesota Hazardous Substance List
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	N	N	N	N	N
2,6-Di-tert-butylphenol	128-39-2	N	N	N	N	N



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<b>16. Other information, including date of preparation or last revision.</b>
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<b>SDS Prepared by:</b>	TPRUETT
<b>Revision Date:</b>	07-08-2019
<b>Revision Number:</b>	14
<b>Reason for revision:</b>	NEW VERSION
<b>References:</b>	No data available
<b>Other Info:</b>	No data available

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