

Issue Date: 15-Jun-2015

Review Date: 21-Mar-2019

Version 2

1. IDENTIFICATION

Product Identifier

Product Name HYDRAULIC OIL AW 46

Other means of identification

SDS #

Item # F-8464-55
F-8464-275

Recommended use of the chemical and restrictions on use

Recommended Use Anti-wear R& O hydraulic fluid

Details of the supplier of the safety data sheet

Supplier Address

Ashburn Chemical Technologies
7403 Wright Rd
Houston, TX 77041

Emergency Telephone Number

Company Phone Number

832-399-1000

Emergency Telephone (24 hr)

INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

Not a hazardous substance or mixture according to the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), The Canadian Workplace Hazardous Information System (WHMIS) and Directive 1999/45/EC and its subsequent amendments.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Hydrotreated naphthenic & paraffinic distillates	64742-53-6 64742-52-5	90-100
Proprietary Additives	Proprietary	1-5

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures

General Advice

Provide this SDS to medical personnel for treatment.

Eye Contact

Flush eyes with plenty of water for several minutes. If irritation or redness persists, get medical attention.

Skin Contact

Wash contact areas with soap and water. Remove contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

Inhalation	If irritation, headache, nausea or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or symptoms persist.
Ingestion	If irritation, headache, nausea or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or symptoms persist.

Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES**Flammable Properties:**

Flash Point (Cleveland Open Cup):	185°C (365°F)
Auto Ignition Temperature:	> 315°C (> 600°F)
Lower Explosive Level (LEL):	Not Determined
Upper Explosive Level (UEL):	Not Determined
Flammability Classification:	OSHA Class III-B Combustible Liquid, 29 CFR 1910.106(a)

**Suitable / Unsuitable
Extinguishing Media**

Dry chemical, foam, CO₂ and water mist or fog. Water may be used to cool below flash point. Do not use forced stream as this could cause fire to spread. Class ABC fire extinguisher

**Specific Hazards Arising/
Combustion Products**

Highly dependent on combustion conditions. A mixture of airborne solids, liquids and gases including smoke, fumes, carbon monoxide, carbon dioxide and unidentified organic compounds will be evolved when this material undergoes combustion.

**Protective equipment /
Precautions for firefighters**

This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined spaces without proper protective equipment. Firefighting personnel should wear respiratory protection and flame retardant clothing. (positive pressure if available).

General Fire Hazard

No unusual fire or explosion hazards noted. Flammability Class: Combustible IIIB

6. ACCIDENTAL RELEASE MEASURES**Personal Precautions**

Do not breathe dust/fume/gas/mist/vapors/spray.
See SECTION 8 for Personal Protective Equipment.

Environmental Precautions

Prevent entry into drains, waterways, rivers, lakes, sewers, basements or confined areas. Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
See SECTION 12 for Ecological Information

Methods for Clean-Up

Absorb or cover with dry earth, sand or other non-combustible material.
Sweep up absorbed material and shovel into suitable containers for disposal.
Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations.
See SECTION 13 for Waste Disposal

7. HANDLING AND STORAGE**Advice on Safe Handling**

Handle in accordance with good industrial hygiene and safety practice.
Wash face, hands, and any exposed skin thoroughly after handling.
See SECTION 8 for Personal Protection.
See SECTION 2 for Precaution Statements.

Storage Conditions Keep container tightly closed and store in a cool, dry and well-ventilated place. Do not store in open or unlabeled containers. Store away from heat and open flame. Storage temperature 5-40°C (41-104°F).

Incompatible Materials Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH	OSHA	NIOSH
Hydrotreated naphthenic & paraffinic distillates	TWA: 5 mg/m ³ STEL: 10 mg/m ³	TWA: 5 mg/m ³	STEL: 10 mg/m ³ 15 min

Appropriate engineering controls

Engineering Controls Adequate ventilation to keep airborne concentration of vapors below the threshold limit value. Maintain eye wash fountain and quick-drench facilities in work area.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side shields are recommended.

Skin and Body Protection Chemical, and oil resistant clothing is recommended.

Respiratory Protection Ensure adequate ventilation, especially in confined areas.

General Hygiene Considerations Avoid contact with skin, eyes and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing and launder before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Mild petroleum odor
Appearance	Clear	Odor Threshold	Not determined
Color	Amber / Golden-brown		
Property	Values	Remarks • Method	
pH	N/A		
Melting Point/Freezing Point			
Boiling Point/Boiling Range	> 223.8 °C / > 435 °F	ASTM D-2887	
Flash Point	> 185 °C / > 365 °F	Cleveland Open Cup ASTM D-92	
Auto-ignition temperature	> 315.5 °C / > 600 °F	ASTM E-659	
Evaporation Rate	< 1		
Upper / Lower Flammability Limits	Not determined		
Upper/lower Explosive Limit	Not determined		
Vapor Pressure	Not determined		
Vapor Density	> 5		
Relative Density	7.4-7.5 lb/gal	(20°C) ASTM D-4052	
Specific Gravity	0.80-0.90		
Water Solubility	Insoluble		
Solubility in other solvents	Not determined		
Viscosity	43.0 cSt (appx 205 SUS @ 37.7°C/100°F)	@ 40°C ASTM D-445	
Partition Coefficient	Not determined	n-octanol / water	

10. STABILITY AND REACTIVITY

Reactivity	Not reactive under normal conditions.
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	Stable under recommended storage conditions.
Conditions to Avoid	Incompatible Materials. Heat, flame.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	Thermal decomposition and combustion are not expected to occur except under extreme conditions.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye Contact	May cause eye irritation with discomfort, tearing, or blurring of vision..
Skin Contact	Frequent or prolonged contact may cause redness and irritation.
Inhalation	Hot vapors may cause respiratory irritation.
Ingestion	May be harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrotreated naphthenic & paraffinic distillates	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2.18 mg/L (Rat) 4 h

Information on physical, chemical and toxicological effects

Symptoms	Please see section 4 of this SDS for symptoms.
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Acute Effects	Harmful if inhaled. May be harmful if swallowed.
Chronic Effects	Prolonged inhalation may be harmful
Carcinogenicity	The highly refined mineral oil contains <3% DSMO extract as measured by IP 346, hence the classification of a carcinogen need not apply.

<u>Numerical measures of toxicity</u>	Not determined
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Unknown Acute Toxicity	Not determined.
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12. ECOLOGICAL INFORMATION

<u>Ecotoxicity</u>	This material maybe toxic to aquatic organisms and should be keep out from sewage, drainage system, and all bodies of water.
Persistence/Degradability	Not inherently biodegradable.
Bioaccumulation	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.

Mobility	Liquid under most environmental conditions. Floats on water. If entered soil, it will adsorb to soil particles and will not be mobile.
Other Adverse Effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

Note	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
DOT	Not regulated
IATA	Not regulated.
IMDG	Not regulated.

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Hydrotreated naphthenic & paraffinic distillates	X	X		X		X	X	X	X	X

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

CERCLA	This material does not contain a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 255)
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SARA 311/312 Hazard Categories	Acute Health Hazard
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SARA 313	Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372
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CWA (Clean Water Act)	This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)
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California Proposition 65

This product does not contain any Prop 65 Chemicals

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	1	1	0	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	1	1	0	Not determined

Issue Date: 15-Jun-2015

Review and Update 21-Mar-2019 – Revised to match manufacturer warnings. DL

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet