

Prepared according to Global Harmonized System (GHS) standards

**SECTION 1** 

#### CHEMICAL PRODUCT IDENTIFICATION

Lubrication Technologies, Inc. 900 Mendelssohn Avenue North Golden Valley, MN 55427-4309 Tel: 763-545-0707

**Product Trade Name:** 

# VP-SEF Multi-Purpose AW46 Hydraulic Oil

CAS Number:
Synonyms/Other:
Part Number(s):
Recommended Use:
Restrictions on Use:
Created Date:
Preparation/Revision Date:
Transportation Emergency
Phone Number:
SDS CODE:

Mixture. N/A N/A Hydraulic oil. Not determined. 8/27/2014 9/15/2014 1-800-424-9300 (CHEMTREC)

13037

# SECTION 2

# HAZARD IDENTIFICATION

Appearance:	Dark green fluid.
Odor:	Mild oily odor.
Classification:	Hazardous to the aquatic environment (acute hazard) category 3
	Hazardous to the aquatic environment (chronic hazard) category 3
Target Organs:	Not applicable.
Pictogram(s):	None required.
Signal Word:	None required.
Hazard Statement:	H402 - Harmful to aquatic life
	H412 - Harmful to aquatic life with long lasting effects
Other Hazards:	Not determined.
Prevention:	P273 - Avoid release to the environment.
Response:	None required.
Storage Procedures:	None required.
Disposal:	P501 - Dispose of contents and container in accordance with federal, state, and local
-	regulations.
Other:	See section 11 for complete health hazard information.

# **SECTION 3**

# COMPOSITION OF INGREDIENTS

Component	CAS Number	Percentage (by weight)
Zinc alkyldithiophosphate	Proprietary	0.1-1.0%
Butylated phenol	128-39-2	0.1-1.0%
Aryl phosphite	101-02-0	<0.1%
Aryl thiophosphate	Proprietary	<0.1%
Calcium sulfonate	Proprietary	<0.1%



Other ingredients determined to be not hazardous up to 100% in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) (Fourth revised edition).

SECTION 4	FIRST AID MEASURES
Eye Contact:	If irritation occurs, cautiously rinse eyes with lukewarm, gently flowing water for 5 minutes, while holding the eyelids open. If eye irritation persists: Get medical advice/attention.
Skin Contact:	Call a doctor if you feel unwell.
Inhalation:	Get medical advice or attention if you feel unwell or are concerned.
Ingestion:	If you feel unwell or concerned: Get medical advice/attention. Rinse mouth. Do NOT induce vomiting. If vomiting occurs naturally, lie on your side, in the recovery position.
Other:	No additional information
Note to Physicians:	If you determine that a medical emergency exists and the specific chemical identity is necessary for emergency or first-aid treatment we will immediately disclose the specific chemical identity. Call CHEMTREC 800-424-9300 or 703-527-3887. We will require a written statement of need and confidentiality agreement, in accordance with OSHA's Trade Secret Regulations as soon as circumstances permit. In non-emergency situations, we will upon written request disclose a specific chemical identity.

SECTION 5	FIRE FIGHTING MEASURES
Flash Point:	200°C by Cleveland Open Cup Tester.
Flammable limits:	Not determined.
Extinguishing media:	Use dry chemical, alcohol foam, all purpose AFFF or carbon dioxide to extinguish fire.
Special firefighting procedures	: DO NOT direct a solid stream of water or foam into hot, burning pools of liquid since this may cause frothing and increase fire intensity. Frothing can be violent and possibly endanger any firefighter standing too close to the burning liquid. Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).
Unusual fire & explosion hazards:	Dense smoke may be generated while burning. Toxic fumes, gases or vapors may evolve on burning. High temperatures may create heavy flammable vapors that may settle along ground level and low spots to create an invisible fire hazard.
Byproducts of combustion:	Fires involving this product may release oxides of carbon, phosphorus, nitrogen and sulfur; reactive hydrocarbons and irritating vapors.
Autoignition temperature:	Not determined.
Explosion data:	Not determined. Care should always be exercised in dust/mist areas.
Other:	Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

#### **SECTION 6**

# ACCIDENTAL RELEASE MEASURES

Spill control procedures (land): Immediately turn off or isolate any source of ignition (pilot lights, electrical equipment, flames, heaters, etc.). Evacuate area and ventilate. Personnel wearing proper protective equipment should contain spill immediately with inert materials (sand, earth, chemical spill pads of cotton) by forming dikes. Dikes should be placed to contain spill in a manner that will prevent material from entering sewers and waterways. Large spill, once contained, may be picked up using explosion proof, non-sparking vacuum pumps, shovels, or buckets, and disposed of in suitable containers for disposal. If a large spill occurs notify appropriate authorities. In case of road spill or accident contact Chem-Trec (800-424-9300).

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Spill control procedures (water):	Try to contain large spills with floating booms to prevent spill from spreading. Remove from surface by skimming or with suitable adsorbents. If a large spill occurs notify appropriate authorities (normally the National Response Center or Coast Guard at 800-424-8802).
Waste disposal method:	Do not empty into drains. All disposals must comply with federal, state, and local regulations. The material, if spilled or discarded may be a regulated waste. Refer to state and local regulations. Department of Transportation (DOT) regulations may apply for transporting this material when spilled. See Section 14.
Other:	CAUTION - If spilled material is cleaned up using a regulated solvent, the resulting waste mixture will be regulated.
SECTION 7	HANDLING AND STORAGE
Handling procedures:	Keep containers closed when not in use. Do not transfer to unmarked containers. Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld, or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse. Handling temperatures should not exceed 60°C (140°F) to minimize danger of burns. Open containers carefully in a well ventilated area or use appropriate respiratory protection. Wash thoroughly after handling.
Storage procedures:	Store containers away from heat, sparks, open flame, or oxidizing materials. Extended storage at excessive temperatures may produce odorous and toxic fumes from product decomposition.
Additional information:	No additional information.
SECTION 8	EXPOSURE CONTROLS / PERSONAL PROTECTION
Personal protection:	Applicable mainly to persons in repeated contact situations such as packaging of product, service/maintenance, and cleanup/spill control personnel.
Respiratory protection:	None required if ventilation is adequate. Otherwise a respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed. Where misting may occur, wear an MSHA/NIOSH approved (or equivalent) half-mask form dust/mist air purifying respirator.
Eye protection:	Eye protection is strongly recommended. Wear safety glasses with side shields or vented/splash proof goggles (ANSI Z87.1 or approved equivalent).
Hand protection:	Impervious, chemically resistant gloves such as neoprene or nitrile rubber to avoid skin sensitization and absorption.
Other protection:	Use of an apron and overboots of chemically impervious materials such as neoprene or nitrile rubber is recommended based on level of activity and exposure. If handling hot material use insulated protective equipment. Launder soiled clothes. Properly dispose of contaminated leather articles and other materials which cannot be decontaminated.
Local control measures:	Use adequate ventilation when working with material in an enclosed area. Mechanical methods such as fume hoods or area fans may be used to reduce localized vapor/mist areas. If vapor or mist is generated when the material handled, adequate ventilation in accordance with good engineering practice must be provided to maintain concentrations below the specified exposure. Eyewash stations and showers should be available in areas where this material is used and stored.
Other:	Consumption of food and drink should be avoided in work areas where product is present. Always wash hands and face with soap and water before eating, drinking or smoking.
SECTION 9	PHYSICAL AND CHEMICAL PRPERTIES

Appearance:

Dark green fluid.



Odor:	Mild oily odor.
Odor threshold:	Not determined.
pH:	Not applicable.
Melting/Freezing point:	Not determined.
Initial boiling point:	Not determined.
Boiling range:	Not determined.
Flash point:	200°C.
Evaporation rate:	Not determined.
Flammability:	Not determined.
Upper flammable limit:	Not determined.
Lower flammable limit:	Not determined.
Vapor pressure:	Negligible at ambient conditions.
Vapor density:	Greater than air.
Relative density:	0.88 g/cm3 at 15.6°C.
Solubility:	Negligible in water, miscible in most petroleum solvents.
Partition Coefficient:	Not determined.
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Viscosity:	46 cSt at 40°C.
Other	Not applicable.

## **SECTION 10**

#### **STABILITY AND REACTIVITY**

Reactivity Chemical stability: Hazardous polymerization: Conditions to avoid: Incompatibility with other materials: Decomposition products:

Material is chemically stable at room temperatures and pressure. Will not occur. Avoid high temperatures and product contamination. Avoid contact with acids and strong oxidizing materials.

Smoke, carbon monoxide, carbon dioxide, and other aldehydes of incomplete combustion. Oxides of carbon, nitrogen, and sulfur; reactive hydrocarbons and irritating vapors. Not applicable.

# Other:

## **SECTION 11**

#### TOXICOLOGICAL INFORMATION

#### Acute toxicity (LD50) \*See note at the bottom of the section

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Oral:	>5000 mg/kg
Dermal:	>5000 mg/kg
Inhalation:	>20.0 mg/l
Skin irritation:	Non-irritant
Eye irritation:	Non-irritant
Dermal sensitization:	Not expected to have a sensitizing effect.
Respiratory sensitization:	Not expected to have a sensitizing effect.
Aspiration Hazard:	Not applicable
Chronic Toxicity	
Mutagenicity:	Not suspected of causing genetic defects
Carcinogenicity:	Not suspected of causing cancer.
Reproductive toxicity:	Not expected to have adverse effects.
STOT-single exposure:	Not expected to have adverse effects.
STOT-repeated exposure:	Not expected to have long term adverse effects.



SECTION 12

#### Safety Data Sheet VP-SEF Multi-Purpose AW46 Hydraulic Oil Revision Date: 9/15/14

\*All data in this section is based off calculations from Part 3 of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) utilizing information from the constituent components.

SECTION 12	
Environmental toxicity	
Fish:	10 - 100 mg/l.
Invertebrates:	10 - 100 mg/l.
Aquatic plants:	10 - 100 mg/l.
Microorganism:	10 - 100 mg/l.
Persistence/Degradability:	This product is not expected to be readily biodegradable.
Bioaccumulation:	Not determined.
Mobility in soil:	Not determined.
Other:	All classifications are based on calculations in Part 4 of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) utilizing information from the constituent components.
SECTION 13	DISPOSAL CONSIDERATIONS

ECOLOGICAL INFORMATION

Waste disposal:This product unadulterated by other materials can be classified as a non-hazardous<br/>waste. Depending on use, used product may be regulated. Dispose of in a licensed<br/>facility. Do not discharge product in to sewer system. Dispose of containers by crushing<br/>or puncturing, so as to prevent unauthorized use of used containers. Waste management<br/>should be in full compliance with federal, state, and local laws.OtherThe transportation, storage, treatment and disposal of RCRA waste material must be

conducted in compliance with 40 CFR 262, 263, 264, 268 and 270. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate.

### TRANSPORT INFORMATION

Land Transport (DOT):	Not regulated for land transport.
Proper Shipping Name:	Not applicable.
Land Transport (TDG):	Not regulated for land transport.
Proper Shipping Name:	Not applicable.
Sea Transport (IMDG):	Not regulated for sea transport.
Proper Shipping Name:	Not applicable.
Air Transport (IATA):	Not regulated for air transport.
Proper Shipping Name:	Not applicable.
Other:	Not applicable.

**SECTION 14** 

# SECTION 15

# **REGULATORY INFORMATION**

Federal Regulation Clean water act/oil:	Under Section 311 of the Clean Water Act (40 CFR 110) and the Oil Pollution Control Act of 1990, this material is considered an oil. Any spill or discharges that produce a visible sheen or film on surface water, or in waterways, ditches, or sewers leading to surface water must be reported. Contact the National Response Center at 800-424-8802.
TSCA:	All components of this material are listed in the U.S. TSCA Inventory.
Other TSCA:	Not applicable.



SARA title III:	Section 302/304 extremely hazardous substances:	
	None.	
	Section 311, 312 hazard categorization:	
	Acute (immediate health effects):	NO
	Chronic (delayed health effects):	NO
	Fire (hazard):	NO
	Reactivity (hazard):	NO
	Pressure (sudden release hazard):	NO
	Section 313 toxic chemicals:	
	Zinc compounds: 0.1-1.0%	
CERCLA:	For stationary/moving sources – reportable quantity (due petroleum exclusion.	to): Not hazardous due to the
State Regulations		
Right-to-know	Not determined.	
Other:	A release of this product, as supplied, is exempt from reporting under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA). However, releases may be reportable to the Nation Response Center under the Clean Water Act, 33 U.S.C. 1321(b)(3) and (5) - see head of Section 15. Failure to report may result in substantial civil and criminal penalties.	
	Recommend contacting the local authorities in the event of local reporting requirements and also to aid in the cleanup.	f any type of spill to determine

SECTION 16	OTHER INFORMATION		
	NFPA 704	NPCA-HMIS	KEY
HEALTH:	1	1	0 = Minimal
FIRE:	1	1	1 = Slight
REACTIVITY:	0	0	2 = Moderate
SPECIFIC HAZARD:	None	N/A	3 = Serious
PROTECTION INDEX:	N/A	В	4 = Severe

Version: II

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Revisions / Comments:

Updated contact information and Section 4: 9/15/2014