

SAFETY DATA SHEET

Issuing Date 12-16-2019

Revision Date 12-16-2019

Revision Number 1

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Identifier

Product Name AWARD Hydraulic Oil AW 46

Other means of identification

Product Code(s) PHY0178AB

Synonyms No information available

Recommended use of the chemical and restrictions on use

Identified uses Lubricant

Restrictions on use Consumer use

Details of the supplier of the safety data sheet

Initial Supplier Identifier

Manufacturer

AFD Petroleum Ltd.
1444 78 Avenue NW
Edmonton, AB Canada T6P 1L7
afdpetroleum.com

Emergency Telephone Number

Emergency Telephone Number CHEMTREC: 1-800-424-9300 (NORTH AMERICA)
+1-703-527-3887 (INTERNATIONAL)

2. HAZARDS IDENTIFICATION

Classification

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

Label Elements

Hazard statements

Not classified.

Other Information

Harmful to aquatic life

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	4259-15-8	0 - 10%	-	

The producer of "PHY0178AB" declares that it contains less than 3% DMSO extractable material by IP-346

4. FIRST AID MEASURES

First Aid Measures

Inhalation	Remove to fresh air. If not breathing, give artificial respiration.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.
Ingestion	Do NOT induce vomiting. Drink plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms None known.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

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5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Water spray. Carbon dioxide (CO2). Foam. Dry chemical.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	Thermal decomposition can lead to release of irritating gases and vapors.
Explosion Data	
Sensitivity to mechanical impact	None.
Sensitivity to static discharge	May be ignited by friction, heat, sparks or flames.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
NFPA	Health hazard 1 Flammability 1 Stability 1

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Do not touch damaged packages or spilled material. Wear protective gloves/protective clothing and eye/face protection. Ensure adequate ventilation. Remove all sources of ignition.
Other information	Refer to protective measures listed in Sections 7 and 8. See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Methods for cleaning up	Use personal protective equipment as required. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. See section 8 for more information.
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Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.
Incompatible products.	Strong oxidizing agents. Strong acids. Strong bases.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection No special protective equipment required.

Hand protection No special protective equipment required.

Skin and body protection No special protective equipment required.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	liquid
appearance	green
Color	No information available
Odor	No information available
Odor threshold	No information available

Property

Remarks • 1 litre of liquid placed under atmospheric pressure gives a volume of vapour of approximately ? litres.

<u>pH VALUE</u>	<u>Property</u> 6 - 8
Melting Point / Freezing Point	No data available
Boiling Point/Range	No data available
Flash Point	214 °C / 417 °F
Flashpoint Method	No information available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Flammability Limits in Air	No data available
Upper flammability limit:	No data available
Lower Flammability Limit	No data available
Vapor pressure	No data available
Vapor Density	No data available
Relative Density	0.866
Water solubility	negligible
Solubility in other solvents	No data available
Partition coefficient: n-octanol/water	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity, kinematic	46.7 cSt @ 40°C
Viscosity, dynamic	No data available

Other information

Explosive properties	No information available.
Oxidizing properties	No information available.
Softening Point	No information available
Density VALUE	No data available
Bulk Density	No data available

10. STABILITY AND REACTIVITY

Reactivity	No information available.
Chemical stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	None under normal processing.
Conditions to Avoid	Heat, flames and sparks. Contact with other chemicals.
Incompatible Materials	Strong oxidizing agents, strong acids, and strong bases.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

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11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	May cause irritation of respiratory tract.
Eye contact	May cause eye irritation with susceptible persons.
Skin contact	May cause sensitization in susceptible persons.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Information on toxicological effects

Symptoms No information available.

Acute Toxicity

Numerical measures of toxicity
No information available

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	15,122.50 mg/kg
ATEmix (dermal)	6,050.00 mg/kg

Unknown acute toxicity No information available

Component Information

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) 4259-15-8	= 3100 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.

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Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.

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Aspiration hazard No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity The environmental impact of this product has not been fully investigated.

Chemical name	Algae/aquatic plants	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to daphnia and other aquatic invertebrates
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) 4259-15-8	EC50 1.0 - 5.0 mg/L 96 h	LC50 10.0 - 35.0 mg/L Pimephales promelas 96 h LC50 1.0 - 5.0 mg/L Pimephales promelas 96 h	-	EC50 1 - 1.5 mg/L 48 h

Persistence and Degradability No information available.

Bioaccumulation No information available.

Component Information

Chemical name	Log Pow
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) 4259-15-8	2.86

Other Adverse Effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

TDG Not regulated

DOT Not regulated

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15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer not applicable

The Stockholm Convention on Persistent Organic Pollutants not applicable

The Rotterdam Convention not applicable

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Not determined
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

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

NFPA **Health hazard** 1 **Flammability** 1 **Stability** 1

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16. OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA:	Time weighted average	STEL:	Short term exposure limit
Ceiling:	Maximum limit value:	*	Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 EPA (Environmental Protection Agency)
 Acute Exposure Guideline Level(s) (AEGl(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 Japan GHS Classification
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program
 Organization for Economic Co-operation and Development Screening Information Data Set
 RTECS (Registry of Toxic Effects of Chemical Substances)
 World Health Organization

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Revision Note Initial Release.

Disclaimer

The information provided in this Material 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