

# SAFETY DATA SHEET

Issuing Date 12-18-2019

Revision Date 01-09-2020

Revision Number 1.1

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

### Product Identifier

**Product Name** AWARD HVI 15 Hydraulic Fluid

### Other means of identification

**Product Code(s)** PHY0179AB

**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%	-	
2,6-di-tert-butylphenol	128-39-2	0 - 10%	-	

The producer of "PHY0179AB" declares that it contains less than 3% DMSO extractable material by IP-346

### 4. FIRST AID MEASURES

#### First Aid Measures

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

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

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	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.
<b>Other information</b>	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

<b>Methods for containment</b>	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.
<b>Methods for cleaning up</b>	Use personal protective equipment as required. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.
<b>Prevention of secondary hazards</b>	Clean contaminated objects and areas thoroughly observing environmental regulations.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

<b>Advice on safe handling</b>	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

<b>Storage Conditions</b>	Keep containers tightly closed in a dry, cool and well-ventilated place.
<b>Incompatible products.</b>	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>Property</u>	<u>Property</u>
pH VALUE	6 - 8
Melting Point / Freezing Point	No data available
Boiling Point/Range	No data available
Flash Point	155 °C / 311 °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	0.886
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	15.5 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

<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Eye contact</b>	May cause eye irritation with susceptible persons.
<b>Skin contact</b>	May cause sensitization in susceptible persons.
<b>Ingestion</b>	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 (dermal)** 46,161.50 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 )	-
2,6-di-tert-butylphenol 128-39-2	> 5000 mg/kg ( Rat )	> 10 g/kg ( Rabbit )	-

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

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

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<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	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
2,6-di-tert-butylphenol 128-39-2	.	-	-	EC50 = 0.45 mg/L 48 h

**Persistence and Degradability** No information available.

**Bioaccumulation** No information available.

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.



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### 14. TRANSPORT INFORMATION

TDG Not regulated

DOT Not regulated

### 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/NDL	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/NDL** - 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	General Information.

#### Disclaimer

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**End of Safety Data Sheet**