

# MATERIAL SAFETY DATA SHEET

## ADVANCED FLUIDS INC.

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EMERGENCY RESPONSE NO:

CHEMTREC: 800 - 424 - 9300

## AW-32 HYDRAULIC OIL

LATEST REVISION DATE: ..... 6/30/07

### SECTION 1

### PRODUCT AND COMPANY INFORMATION

PRODUCT NAME ..... AW-32 HYDRAULIC OIL

TRADE NAME OR CHEMICAL NAME ..... AW-32 HYDRAULIC OIL

SYNONYMS ..... NA

CHEMICAL FAMILY ..... HYDRAULIC OILS

NFPA - HEALTH HAZARD ..... 0

FIRE HAZARD ..... 1

REACTIVITY HAZARD ..... 0

PERSONAL PROTECTION ..... C

NFPA SCALE ..... 4=EXTREME 3=HIGH 2=MODERATE 1=SLIGHT 0=INSIGNIFICANT

KEY ..... NA=NOT APPLICABLE ND=NOT DETERMINED

### SECTION 2

### COMPOSITION/INFORMATION ON INGREDIENTS

<u>CHEMICAL NAME(S)</u>	<u>CAS NUMBER</u>	<u>% VOLUME</u>	<u>SECTION 313</u>	<u>TLV (UNITS)</u>
Solvent-refined paraffinic hydrocarbons	64741-88-4	0-100	NO	5 mg/m3
Zinc compound mixture	68649-42-3	0-1	NO	

END OF HAZARDOUS INGREDIENTS

### SECTION 3

### HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW ..... May cause severe eye irritation. May cause skin and respiratory irritation. May cause allergic skin reaction.

EYE CONTACT ..... Can cause transient mild eye irritation.

SKIN CONTACT ..... Can cause mild skin irritation. Injection under skin can cause inflammation and swelling.

Injection of petroleum hydrocarbons requires immediate medical attention.

INHILATION ..... May irritate the mucous membranes of the nose, throat, bronchi, and lungs.

INGESTION ..... May cause irritation. Aspiration of this product into the lungs during ingestion or vomiting may cause severe lung damage that may be fatal.

CHRONIC EFFECTS ..... Contains a petroleum-based mineral oil. Prolonged or repeated skin contact can cause mild irritation and inflammation characterized by drying, cracking, (dermititis) or oil acne. Repeated or prolonged inhalation of petroleum-based mineral oil mists at concentrations above applicable workplace exposure levels can cause respiratory irritation or other pulmonary effects.

CONDITIONS AGGRAVATED. Medical conditions aggravated by exposure to this material may include pre-existing disorders.

BY EXPOSURE

TARGET ORGANS ..... This material may cause damage to the following organs: SKIN

CARCINOGENIC POTENTIAL. This product does not contain any components at concentrations above 0.1% which are considered carcinogenic by OSHA, IARC or NTP.

## AW-32 HYDRAULIC OIL

### **SECTION 4**

### **FIRST AID MEASURES**

EYES: ..... Immediately flush with large amounts of water for at least 15 minutes. Get immediate medical attention if excessive tearing, redness, or pain persists.

SKIN: ..... Remove contaminated clothing and flush skin with water, and soap if available. Launder clothing before reuse. If irritation persists, get medical attention.

INHALATION: ..... If symptoms develop, remove exposed person to fresh air. If breathing is difficult, administer oxygen if available. Get immediate medical attention.

INGESTION: ..... Immediately call a local physician, a local emergency room, or poison control center. Do not induce vomiting because of danger of aspirating liquid into lungs. Get immediate medical attention.

NOTE TO PHYSICIANS: ..... In the event of injection in underlying tissue, immediate treatment should include extensive incision, debridement and saline irrigation. Inadequate treatment can result in ischemia and gangrene. Early symptoms may be minimal.

### **SECTION 5**

### **FIRE-FIGHTING MEASURES**

FLASH POINT ..... >400 °F COC

FLAMMABILITY LIMITS ..... LEL: ND UEL: ND

FLAMMABILITY CLASSIFICATION ..... NFPA Class-IIIB combustible material.

AUTOIGNITION TEMPERATURE ..... N/A

DECOMPOSITION PRODUCTS ..... Carbon oxides, smoke, fumes, unburned hydrocarbons and trace oxides of sulfur, phosphorous, zinc, and/or nitrogen.

EXTINGUISHING MEDIA ..... Use of foam, water, fog, CO<sub>2</sub>, and dry chemical are appropriate.

FIRE FIGHTING PROCEDURES ..... Use NIOSH approved self-contained breathing apparatus. Use water or fog to keep fire exposed containers cool or to disperse vapors.

### **SECTION 6**

### **ACCIDENTAL SPILL/RELEASE MEASURES**

GENERAL ..... Wear protective equipment and stop at leak source. Dike area and prevent from entering waterway. Do not use combustible material to dike; as sawdust or paper products. Contain with sand or earth. Pump material to reclaim container. Use absorbent on remaining material and shovel into waste container.

Large Spill: ..... Contain as described above.

Small Spill: ..... Use absorbing material to remove product. Place in suitable disposal container. Can be wet mopped or vacuumed.

WATER SPILL ..... Prevent entry into waterways or sewers. Consult an expert or local authorities to ensure compliance with local disposal regulations.

### **SECTION 7**

### **STORAGE AND HANDLING**

HANDLING ..... Do not wear contaminated clothing. Wash prior to eating, drinking, smoking, or use of restroom and when leaving work. Heating of non-vented container may cause container to rupture. Take care when handling not to rupture container. Do not reuse container without commercial cleaning or reconditioning.

STORAGE ..... Store container in cool well ventilated area away from incompatible materials. Do not expose to sunlight at high temperatures. Keep away from high heat, ignition, or flame sources. Do not pressurize, heat, cut or weld containers that contain product residue. Keep container free of electrostatic charge development by grounding properly.

Storage Temperature: Store in a cool area away from direct sunlight. Store below 100 °F and above freezing, 32 °F.

### **SECTION 8**

### **EXPOSURE CONTROLS/PERSONAL PROTECTION**

EXPOSURE CONTROLS ..... Mechanical ventilation is required if product is used in confined area.

EYE/FACE PROTECTION ..... Wear face shield or chemical goggles to prevent eye contact. Provide and eyewash station immediately accessible to the work area.

SKIN PROTECTION ..... Wear chemical resistant gloves and protective clothing when handling product.

RESPIRATORY PROTECTION... If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.

PROTECTIVE CLOTHING ..... Wear protective clothing, long sleeves and gloves, when directly exposed to product for long periods.

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### **SECTION 9**

### **PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE ..... Light amber to amber liquid.  
ODOR ..... Mild petroleum odor.  
PHYSICAL STATE ..... Liquid.  
SPECIFIC GRAVITY ..... 0.87 G/mL (7.26 Lbs./gallon)  
BOILING POINT ..... NA  
FREEZING POINT ..... NA  
VAPOR PRESSURE ..... <0.01 mm Hg, at 20°C  
VAPOR DENSITY ..... >1 (AIR=1)  
MELTING POINT ..... NA  
EVAPORATION RATE ..... ND  
SOLUBILITY IN WATER ..... Insoluble in cold water  
pH ..... NA

### **SECTION 10**

### **STABILITY AND REACTIVITY**

PRODUCT STABILITY ..... Stable under normal ambient and anticipated storage and handling conditions.  
Conditions to Avoid: ..... Avoid heating to decomposition. Avoid strong oxidizers.  
CHEMICAL INCOMPATIBILITY ..... Strong oxidizers.  
HAZARDOUS POLYMERIZATION ..... Not expected to occur.  
HAZARDOUS DECOMPOSITION PRODUCTS ... Oxides of carbon, smoke, fumes, unburned hydrocarbons and trace oxides of sulfur, phosphorous, zinc and/or nitrogen.

### **SECTION 11**

### **TOXICOLOGICAL INFORMATION**

ND for ingestion. Refer to section 3 for available information on potential health effects.

### **SECTION 12**

### **ECOLOGICAL INFORMATION**

No specific ecological data is available for this product. Refer to Section 6 for information regarding accidental release.

### **SECTION 13**

### **DISPOSAL CONSIDERATIONS**

Because this product may be mixed with other components, or used in processes that may contaminate it, it is the responsibility of the owner/user to determine at the time of disposal if the product meets RCRA criteria for hazardous waste. Dispose of material and empty containers, liners, rinsate, and any dilutions, according to local, state, and federal regulations.

### **SECTION 14**

### **TRANSPORT INFORMATION**

SHIPPING NAME ..... Petroleum based fluid.  
HAZARD CLASS ..... None  
DOT REGULATION ..... This product is not DOT regulated. Shipped as Class 70, Sub 50455

### **SECTION 15**

### **REGULATORY INFORMATION**

#### U.S. REGULATIONS:

OSHA ..... None  
TSCA ..... All ingredients appear on inventory.  
CERCLA ..... Not listed.  
SARA TITLE III SECTION 313 .... No chemicals in this product exceed the De Minimus reporting levels established by SARA Title III, Section 313 and 40 CFR 372.  
CLEAN WATER ACT/OIL POLLUTION ACT .... This product is considered an oil under the Clean Water and Oil Pollution Act, and should be reported to the National Response Number – 800-424-8802

#### INTERNATIONAL REGULATIONS...

CANADIAN WHIMS ..... Health 1  
Flammability 1  
Reactivity 0  
CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) ..... ND

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### **SECTION 16**

### **OTHER INFORMATION**

All statements, information and data provided in this MSDS are believed to be accurate and reliable. This information is presented without guarantee. Users should make their own investigations to determine suitability of the information for their purposes. Nothing is intended as permission to violate any laws.