



# MATERIAL SAFETY DATA SHEET

## MSDS # 24-HC1

### *ARCTIC FIRE AW HYDRAULIC OIL*

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**TRADE NAME:** AW Hydraulic Oil

**APPLICATIONS:** AW Hydraulic Oil

**SYNONYMS:** Hydraulic Oil

**CAS REGISTRY #:** NA

**CHEMICAL FAMILY:** Automotive Motor Oil

**EMERGENCY PHONE:** CHEMTREC – (800) 424-9300 or (703) 527-3887 (collect)

**SUPPLIER:** Sinclair Oil Corporation  
P.O. Box 30825  
Salt Lake City, Utah 84130

**TELEPHONE / FAX:** (888) 340-3466 / (801) 524-2740

## 2. COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENTS:	CAS#	Typical wt.%
Hydrocarbon Mixture		97-99
Proprietary additives		1-3

## 3. HAZARDS IDENTIFICATION

**APPEARANCE:** Amber, Non-Viscous Fluid

**PHYSICAL STATE:** Liquid

**ODOR:** Mild, bland, hydrocarbon odor

**EMERGENCY OVERVIEW:** No known immediate health hazards. High-pressure injection under the skin may cause serious damage.

**POTENTIAL HEALTH EFFECTS:** May cause minimal irritation

**INHALATION:** Vapors or mist, in excess of permissible concentrations, or in unusually high concentrations generated from spraying, heating the material or as from exposure in poorly ventilated areas or confined spaces, may cause irritation of the nose and throat, headache, nausea, and drowsiness.

**EYE CONTACT:** May cause minimal irritation, experienced as temporary discomfort.

**SKIN CONTACT:** Lubricating oils are generally considered no more than minimally irritating to the skin. Prolonged and repeated contact may result in defatting and drying of the skin that may cause various skin disorders such as dermatitis, folliculitis or oil acne. Release of the material during high-pressure applications may result in injection under the skin causing possible extensive tissue damage which is difficult to heal.

**INGESTION:** If more than several mouthfuls are swallowed, abdominal discomfort, nausea, and diarrhea may occur.

## 4. FIRST AID MEASURES

**INHALATION:** If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation persists.

**EYE CONTACT:** Flush immediately with water for at least 15 minutes. Seek medical attention if irritation develops or persists.

**SKIN CONTACT:** Remove contaminated clothing and shoes and wipe excess from skin. Flush skin with water, then wash with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned. If material is injected under the skin, transport to the nearest medical facility for additional treatment.

**INGESTION:** Do not induce vomiting. In general, no treatment is necessary unless large quantities of product are ingested. However, get medical attention.

## 5. FIRE FIGHTING MEASURES

**FLASH POINT (°F):** above 350 °F

**FLAMMABLE LIMITS:** LEL – not determined UEL – not determined

**AUTOIGNITION TEMPERATURE:** not determined

**FLAMMABILITY CLASSIFICATION:** Combustible Liquid

**GENERAL HAZARD:** No unusual or explosive hazards

**FIRE FIGHTING INSTRUCTIONS:** Material will not burn unless preheated.

**EXTINGUISHING MEDIA:** Material will float and can be re-ignited on surface of water. Use water fog, 'alcohol foam', dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames. Do not use a direct stream of water.

**FIRE FIGHTING EQUIPMENT: HAZARDOUS COMBUSTION PRODUCTS:** Use of SCBA in enclosed or confined spaces, or as other wise needed (Bunker gear).

**Hazardous Decomposition Products:** May produce carbon monoxide

## 6. ACCIDENTAL RELEASE MEASURES

**LAND SPILL: FOR LARGE SPILLS:** Remove with vacuum truck or pump to storage/salvage vessels.

**FOR SMALL SPILLS:** Soak up residue with an absorbent such as clay, sand or other suitable material. Place in non-leaking container and seal tightly for proper disposal.

**Reporting:** Product is covered by EPA's Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) petroleum exclusion. Releases to air, land, or water are not reportable under CERCLA (Superfund).

**WATER SPILL:** Treat spill as an oil spill. Spill may be removed from water with boom and vacuuming equipment. Report spills to appropriate authorities. Dispose of in accordance with Federal, State, and Local regulations.

## 7. HANDLING AND STORAGE

**HANDLING / STORAGE:** Minimum feasible handling temperatures should be maintained. / Periods of exposure to high temperatures should be minimized. Water contamination should be avoided.

## 8. EXPOSURE CONTROLS, RESPIRATORY & PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Provide ventilation sufficient to prevent exceeding recommended exposure limits

**PERSONAL PROTECTION:**

**PROTECTIVE CLOTHING:** Use full-face shield or chemical goggles, impervious gloves, and boots.

**RESPIRATOR:** Airborne concentrations should be kept to lowest levels possible. If vapor, mist or dust is generated and the occupational exposure limit of the product, or any component of the product, is exceeded, use appropriate NIOSH or MSHA approved air purifying or air-supplied respirator after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown.

### OCUPATIONAL EXPOSURE LIMITS

COMPONENT	LIMIT	TWA	STEL	CEILING	NOTATION	OTHER
Oil Mist	OSHA PEL	5mg/M <sup>3</sup>				
Oil Mist	ACGIH TLV	0.2mg/M <sup>3</sup>	10mg/M <sup>3</sup>			A4

A1= Confirmed Human Carcinogen  
A3= Confirmed Animal Carcinogen with Unknown Relevance to Humans  
A4= Not Classified as a Human Carcinogen  
CNS= Central Nervous System  
Skin= Absorption through the skin may contribute to overall exposure

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE/PHYSICAL STATE:** Liquid

**COLOR:** amber liquid

**DENSITY/SPECIFIC GRAVITY (g/ml):** 0.86

**VAPOR DENSITY (air=1):** Greater than 5

**VAPOR PRESSURE:** <1 PSIA

**BOILING POINT/RANGE:** not available

**SOLUBILITY IN WATER:** No

**VISCOSITY:** N/A/F

**pH :** N/A

**FREEZING POINT:** NA

## 10. STABILITY AND REACTIVITY

**GENERAL:** This product is stable

**INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:** Avoid Strong oxidizers, heat and open flames

**HAZARDOUS DECOMPOSITION:** Incomplete burning can produce carbon monoxide.

## 11. TOXICOLOGICAL INFORMATION

**SYSTEMIC:** Petroleum derived fuel oils are complex and variable mixtures of hydrocarbons. In general, the more viscous the mixture, the less toxic it will be.

**ACUTE:**

**Inhalation:** : Not determined

**Ingestion:** LD50 Believed to be > 5.00 g/kg (rat) practically non-toxic

**Eye:** (Draize) Believed to be < 15 /110 (rabbit) no appreciable effect

**Skin:** LD50 Believed to be > 2.00 g/kg (rabbit) practically non-toxic

**CHRONIC:** No data available to indicate the product or its components present a chronic health hazard

## 12. DISPOSAL INFORMATION

**RCRA:** Dispose of this product in accordance with local and/or national regulations.

**EPA Hazard Class:** Not determined

**Dispose of in accordance with Federal, State, and Local regulations.**

## 13. TRANSPORT INFORMATION

**DOT (Department of Transportation):** Not regulated

**PROPER SHIPPING NAME:** Petroleum Oil

**HAZARD CLASS:** Not classified as hazardous material for shipping

**IDENTIFICATION NUMBER:** NA

**NAERG96 NUMBER:** NA

## 14. REGULATORY INFORMATION

**CERCLA** (Comprehensive Environmental Response Compensation and Liability Act):

**SARA TITLE III** (Superfund Amendments and Reauthorization Act): Section 313 - NA

## 15. OTHER INFORMATION

**NFPA 704/HMIS:**

Health – 0 Flammability – 1 Reactivity – 0  
(0 = insignificant, 1 = slight, 2 = moderate, 3 = high, 4 = extreme)

**REVISION SUMMARY:**

Complete review of MSDS, December 2005.

**THIS PRODUCT MATERIAL SAFETY DATA SHEET PROVIDES HEALTH AND SAFETY INFORMATION. THE PRODUCT SHOULD BE USED IN APPLICATIONS CONSISTENT WITH THIS PRODUCT LITERATURE. FOR ANY OTHER USES, EXPOSURES SHOULD BE EVALUATED SO THAT APPROPRIATE HANDLING PRACTICES AND TRAINING PROGRAMS CAN BE ESTABLISHED TO ENSURE SAFE WORKPLACE OPERATIONS.**

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**DATE: December 2005**