



# MATERIAL SAFETY DATA SHEET

## MSDS # L5

### ARCTIC FIRE HEAVY CUTTING FLUID

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**TRADE NAME:** Arctic Fire Heavy Cutting Fluid

**APPLICATIONS:** Metalworking cutting fluid

**PRODUCT CODES:** 572-000

**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.%
Severely Hydrotreated Naphthenic Petroleum Distillate	64742-52-5	>75
Solvent De-waxed Paraffinic Distillate	64742-65	<19
Extreme pressure oxidation and rust inhibitors	Mixture	<10
Chlorinated Paraffin Hydrocarbons	6345549-39	<5

## 3. HAZARDS IDENTIFICATION

**APPEARANCE:** Brown

**PHYSICAL STATE:** liquid

**ODOR:** mild sulfurous, fatty petroleum odor

**POTENTIAL HEALTH EFFECTS:** Practically non-toxic

**INHALATION:** Low risk of inhalation at ambient temperatures. In enclosed spaces or when hot, vapors may reach concentrations sufficient to cause drowsiness, dizziness, headache, nausea or lung irritation. Misting above TLV may cause chemical pneumonitis.

**EYE CONTACT:** Mild irritant

**SKIN CONTACT:** Transient, slight initiation. Avoid prolonged skin contact with used motor oils. Continuous contact with used oil has caused skin cancer in laboratory animals.

**INGESTION:** Generally low toxicity. If less than one ounce is ingested, material may pass through the system without harm. Very large amounts may cause generalized depression, headache, drowsiness, nausea, vomiting or diarrhea. Small dose may produce irritation and diarrhea.

**CHRONIC:** Prolonged and/or frequent contact may cause drying, cracking (dermatitis) or folliculitis.

**OTHER INFORMATION:** Long-term bioassay results indicate that some chlorinated paraffins in combination with corn oil produce tumors in laboratory animals following high-dose forced feeding. It caused the death of off-spring during weaning. The implication of this data for human health effects has not been determined.

**CARCINOGENICITY:** None known

## 4. FIRST AID MEASURES

**INHALATION:** Remove from further exposure. If unconsciousness occurs, seek immediate medical assistance. If breathing stops, use mouth-to-mouth resuscitation.

**EYE CONTACT:** Flush immediately with water for at least 15 minutes. Seek medical attention promptly.

**SKIN CONTACT:** Wash contact areas with soap and water. Launder contaminated clothing before reuse.

**INGESTION:** DO NOT INDUCE VOMITING. Get medical assistance promptly.

**Notes to Physician:** The SUS viscosity at 200F for this product is approximately 750. Following ingestion, at a Saybolt viscosity of 200 at 100°F, the risk of aspiration into the lungs reduces significantly; and is non-significant over 300 SUS. However, for large quantities, lavage may still be advised. Subcutaneous injections require prompt surgical debridement. If not familiar with technique, seek skilled advice.

## 5. FIRE FIGHTING MEASURES

**FLASH POINT (°F):** 420°F / 215°C COC

**FLAMMABLE LIMITS:** Not Determined

**AUTOIGNITION TEMPERATURE:** Not Determined

**FLAMMABILITY CLASSIFICATION:** NFPA Flammability =1

**GENERAL HAZARD:** Non-hazardous

**FIRE FIGHTING INSTRUCTIONS:** No special instructions

**FIRE FIGHTING MEDIA:** CO<sub>2</sub>, dry chemical, foam, water fog, (water may cause frothing)

**HAZARDOUS DECOMPOSITION PRODUCTS:** CO<sub>2</sub>, (CO under incomplete combustion), traces of oxides of carbon, sulfur, and phosphorous.

## 6. ACCIDENTAL RELEASE MEASURES

**SPILL PROCEDURES:**

-Remove sources of heat or ignition.

-Provide adequate ventilation .

-Small Spills: Take up with noncombustible absorbent such as fullers earth or sand. Place into containers for later disposal.

-Large Spills: Contain spill in earthen dikes for later recover. Control ignition sources around spill area. Report spills as required to appropriate authorities.

## 7. HANDLING AND STORAGE

**HANDLING / STORAGE:** Store below 150 °F. Keep container tightly closed and away from heat and flame. Keep separate from strong oxidizing agents.

## 8. EXPOSURE CONTROLS, RESPIRATORY & PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use in well-ventilated confined spaces, mechanical ventilation may be required to keep levels of certain components below mandated standards. Responsible individuals should evaluate the concentrations of specific regulated chemicals.

**PERSONAL PROTECTION:**

**PROTECTIVE CLOTHING:** Wear body-covering work clothes to avoid prolonged or repeated exposure. Launder soiled work clothes before reuse. Safety goggles, or chemical splash goggles if splashing is anticipated. Wear oil impervious gloves if frequent or prolonged contact is expected.

**RESPIRATOR:** If high vapor concentration is expected, use respirator approved for organic vapors.

## OCUPATIONAL EXPOSURE LIMITS

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE/PHYSICAL STATE:** Liquid

**COLOR:** Brown

**DENSITY/SPECIFIC GRAVITY (g/ml):** 0.94 (60/60°F)

**VAPOR DENSITY (air=1):** >1

**VAPOR PRESSURE:** < 0.01 mmHg (25°C)

**BOILING POINT/RANGE:** 700°F (370°C) @ 760mm Hg

**SOLUBILITY IN WATER:** Negligible

**VISCOSITY:** NA

**pH :** NA

**EVAPORATION RATE (Butyl Acetate=1):** <1

## 10. STABILITY AND REACTIVITY

**GENERAL:** This product is stable

**INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:** Strong oxidants, strong acids, caustics

**HAZARDOUS DECOMPOSITION:** CO<sub>2</sub>, (CO under incomplete combustion), traces of oxides of carbon, sulfur, and phosphorous.

## 11. TOXICOLOGICAL INFORMATION

COMPONENTS	CAS# %	Hazard Data
Severely Hydrotreated Naphthenic Petroleum Distillate	64742-52	Oral LD50(rat): >5g/kg
Solvent De waxed Paraffinic Distillate	64742-65	Oral LD50(rat): >5g/kg
Extreme pressure, oxidation and rust inhibitors	Mixture	Oral LD50(rat): >5000 mg/kg Eye and skin irritant
Chlorinated "Paraffin Hydrocarbons (other information)	6345549-39	Section 6.0 Health Hazard

## 12. DISPOSAL INFORMATION

### WASTE DISPOSAL:

- It is the responsibility of the user to determine if the material is a hazardous waste at the time of disposal.
- Check before disposing to be sure you are in compliance with all applicable laws and regulations.
- Treat used oil according to current rules and regulations.
- EPA Emergency Spill Hotline Number: 612-296-6300 (.After Hours 296-8100)
- Protective Measures During Repair and Maintenance of Contaminated Equipment:
- Refer to Section VII -Special Protection Information
- Wash exposed skin thoroughly with soap and water.
- Use polymer gloves if extended, direct contact is expected.
- Avoid prolonged contact with used oil.

After draining oil, wash skin thoroughly with soap and water. Empty containers may contain product residue, which could include flammable or explosive vapors. Consult appropriate Federal, State and Local authorities before reusing, reconditioning, reclaiming, recycling or disposing of empty containers and/or waste residues of this product.

EPA Hazard Class: NA

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

## 13. TRANSPORT INFORMATION

DOT (Department of Transportation):

PROPER SHIPPING NAME: Petroleum Lubricating Oil

HAZARD CLASS: Non-Hazardous

IDENTIFICATION NUMBER: None

COMPATIBILITY CATEGORY: Group 33

## 14. REGULATORY INFORMATION

**CERCLA** (Comprehensive Environmental Response Compensation and Liability Act): Petroleum and petroleum fractions are excluded from the list of CERCLA hazardous substances by Section 101 (4) of CERCLA

**CLEAN WATER ACT:** Under Section 311(b) (4) of the Clean Water Act, discharges of crude oil and petroleum products in any kind or form to surface waters must be immediately reported to the National Response Center: 800-424-8802

**SARA TITLE III** (Superfund Amendments and Reauthorization Act): This product does contain toxic chemicals of Section 313 of Title III of Superfund Amendments and Reauthorization Act of 1986 (SRA) and 40 CFR Part 372.

Components	CAS#	%
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Section 311 Hazard Categories

Yes Not applicable

No Acute (immediate health hazard)

No Chronic (Delayed health hazard)

No Fire Hazard

No Sudden Release of Pressure Hazard

No Reactive Hazard

Section 302 (a) Extremely Hazardous Substances

(RQ = Reportable Quantity) (TPO=Threshold Planning Quantity)

This product does not contain Extremely Hazardous Substances of Section 302(a)

### CALIFORNIA Proposition 65

Contains components that occur on lists of

Carcinogenic Materials

Yes

No

X

Teratogenic Materials

Yes

No

X

The following components are subject to OSHA 29CFR1910.1200 Hazard Communication Standard: Oil mist

## 15. OTHER INFORMATION

### NFPA 704/HMIS:

Health – 1 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.**

**THIS MATERIAL SAFETY DATA SHEET IS PROVIDED IN GOOD FAITH AND MEETS THE REQUIREMENTS OF THE HAZARDOUS COMMUNICATION PROVISIONS OF SARA TITLE III AND 29CFR1910.1200(g) OF THE OSHA REGULATIONS. THE ABOVE INFORMATION IS BASED ON REVIEW OF AVAILABLE INFORMATION**

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**DATE: December 2005**