



# MATERIAL SAFETY DATA SHEET

## MSDS # L3

### *ARCTIC FIRE OPEN GEAR LUBE*

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**TRADE NAME:** Arctic Fire Open Gear Lube

**APPLICATIONS:** Lubricating grease

**PRODUCT CODES:** 750-000

**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.%
Graphite	7782-42-5	5-10
Distillates, Petroleum, Severely Hydro-treated, Heavy Naphthenic	64742-52-5	10-30
Carbon Black	1333-86-4	1-5

## 3. HAZARDS IDENTIFICATION

**APPEARANCE:** Black

**PHYSICAL STATE:** Grease

**ODOR:** Mild petroleum

**EMERGENCY OVERVIEW:** Exposure to vapors generated at high temperatures, may cause respiratory irritation.

**POTENTIAL HEALTH EFFECTS:** Irritation to skin eyes or possibly the respiratory tract.

**INHALATION:** Heating can generate vapors that may cause respiratory irritation, nausea and headaches. Inhalation hazard at room temperature is unlikely due to the low volatility of this product.

**EYE CONTACT:** May cause irritation

**SKIN CONTACT:** Repeated or prolonged contact can result in drying of the skin. Minimize skin contact

**INGESTION:** No information available

**CARCINOGENICITY:** Product contains carbon black which is listed as an IARC-3 = Not classifiable as a human carcinogen

## 4. FIRST AID MEASURES

**INHALATION:** Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor of hot product, immediately remove from source of exposure. Move the exposed person to fresh air at once. For breathing difficulties oxygen may be necessary. Get medical attention if any discomfort continues.

**EYE CONTACT:** Rinse the eye with water immediately. Continue to rinse for at least 15 minutes. Contact physician if discomfort continues.

**SKIN CONTACT:** Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

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

## 5. FIRE FIGHTING MEASURES

**FLASH POINT (°F):** 224°F Cd OC (Cleveland open cup)

**FLAMMABLE LIMITS:** N/D

**AUTOIGNITION TEMPERATURE:** NA

**FLAMMABILITY CLASSIFICATION:** NA

**GENERAL HAZARD:** Pressure will increase in over-heated closed containers.

**FIRE FIGHTING INSTRUCTIONS:** Use water to keep fire exposed containers cool and disperse vapors. Water spray may be used to flush spills away from exposures and dilute spills to non-flammable mixtures. Avoid water in straight hose stream; will scatter and spread fire. Keep run-off water out of sewers and water sources. Dike for water control.

**EXTINGUISHING MEDIA:** Use: Carbon dioxide (CO<sub>2</sub>). Dry chemicals, sand, dolomite etc. Alcohol resistant foam. Water spray, fog or mist.

**HAZARDOUS COMBUSTION PRODUCTS:** Oxides of carbon

## 6. ACCIDENTAL RELEASE MEASURES

**LAND SPILL:** Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with applicable government regulations.

**WATER SPILL:** Treat spill as an oil spill. Report spills to appropriate authorities. Dispose of in accordance with Federal, State, and Local regulations.

**SPILL CLEANUP PROCEDURE:** Keep all sources of ignition and hot metal surfaces away from spill. Avoid contact with eyes or skin. Place leaking containers in well ventilated area. If fire potential exists, blanket spill with foam or use water spray to disperse vapors. Contain spill to minimize contaminated area and facilitate salvage or disposal. To clean up spill, flush area sparingly with water or use absorbent material. Avoid discharge to natural water ways.

## 7. HANDLING AND STORAGE

**HANDLING / STORAGE:** Keep away from heat, sparks and open flame. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Do not reuse container. Keep lid closed when not in use. Do not store or mix with strong oxidizers. Avoid spilling, skin and eye contact. Eye wash and emergency shower must be available at the work place.

Store separate from strong acids and oxidizers. Keep away from heat, sparks and open flame.

## 8. EXPOSURE CONTROLS, RESPIRATORY & PERSONAL PROTECTION

**ENGINEERING CONTROLS:**

**PERSONAL PROTECTION:**

**PROTECTIVE CLOTHING:** No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists. Wear splash-proof eye goggles to prevent any possibility of eye contact. Wear appropriate clothing to prevent repeated or prolonged skin contact.

**RESPIRATOR:** No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

## OCUPATIONAL EXPOSURE LIMITS

COMPONENT	LIMIT	TWA	STEL	CEILING	NOTATION	OTHER
Graphite ( respirable )	OSHA	5mg/M <sup>3</sup>				
Graphite (Total)	OSHA	15mg/M <sup>3</sup>				
Graphite	ACGIH	2mg/M <sup>3</sup>				Pneumoconiosis
Petroleum Distillates, (Oil Mist)	OSHA	5mg/M <sup>3</sup>				
Petroleum Distillates, (Oil Mist)	ACGIH	5mg/M <sup>3</sup>	10mg/M <sup>3</sup>			
Carbon Black	OSHA	3.5mg/M <sup>3</sup>				
Carbon Black	ACGIH	3.5mg/M <sup>3</sup>			A4	Lung

A4 – Not classifiable as a human carcinogen

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE/PHYSICAL STATE:** Grease

**COLOR:** Black

**DENSITY/SPECIFIC GRAVITY (g/ml):** 0.90

**VAPOR DENSITY (air=1):** >5

**VAPOR PRESSURE:** <0.01 mmHg

**BOILING POINT/RANGE:** NA

**SOLUBILITY IN WATER:** insoluble

**VISCOSITY:** N/A/F

**pH :** N/A

**EVAPORATION RATE (Butyl Acetate=1) :** <0.01

## 10. STABILITY AND REACTIVITY

**GENERAL:** This product is stable

**INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:** Avoid contact with acids and oxidizing substances

**HAZARDOUS DECOMPOSITION:** Oxides of carbon

## 11. TOXICOLOGICAL INFORMATION

No experimental toxicological data on the preparation as such is available.

## 12. DISPOSAL INFORMATION

Dispose of spilled material, unused contents, and empty containers in accordance with Federal, State, and Local regulations.

## 13. TRANSPORT INFORMATION

DOT (Department of Transportation): NA

PROPER SHIPPING NAME: NA

HAZARD CLASS: NA

IDENTIFICATION NUMBER: NA

NAERG96 NUMBER: NA

## 14. REGULATORY INFORMATION

**REGULATORY STATUS** This Product or its components, if a mixture, is subject to following regulations (Not meant to be all inclusive - selected regulations represented): TSCA: The ingredients of this product are on the TSCA Inventory. SECTION 313: This product does not contain toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372.

### CLEAN AIR ACT

### US STATE REGULATIONS

**STATE REGULATORY STATUS:** This product or its components, if a mixture, is subject to following regulations (Not meant to be all inclusive - selected regulations represented):. PROPOSITION 65: This product does not contain chemicals considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer or reproductive toxicity, and for which warnings are now required.

### WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHIMIS

### CONTROLLED PRODUCT CLASSIFICATION:

This product has been classified according to the hazard criteria of the Controlled Products Regulations, and the MSDS contains all required information.

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

Graphite

Carbon Black

Petroleum Distillate

## 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 SINCLAIR BELIEVES IS RELIABLE AND IS SUPPLIED FOR INFORMATIONAL PURPOSES ONLY. SINCLAIR DOES NOT GUARANTEE ITS COMPLETENESS OR ACCURACY. SINCE CONDITIONS OF USE ARE OUTSIDE THE CONTROL OF SINCLAIR, SINCLAIR DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, AND ANY LIABILITY FOR DAMAGE OR INJURY WHICH RESULTS FROM THE USE OF THE ABOVE DATA. NOTHING HEREIN IS INTENDED TO PERMIT INFRINGEMENT OF VALID PATENTS AND LICENSES.**

**DATE: December 2005**