

# MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT: FLAME- OUT 220

FILE NO.: 9639-9640  
MSDS DATE: September, 2009

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT NAME: FLAME-OUT 220  
SYNONYMS: Fire resistant hydraulic fluid  
PRODUCT CODES: 9639, 9640

Responsible party: CGF INC  
ADDRESS: 317 Peoples Avenue Rockford, IL 61104 USA

EMERGENCY PHONE: 800/424-9300  
CHEMTREC PHONE: 800/424-9300  
OTHER CALLS: 815-967-4400  
FAX PHONE: 815-967-4404

PRODUCT USE: Hydraulic Fluid  
PREPARED BY: Irena Larson

SECTION 1 NOTES:

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

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**INGREDIENT:** Synthetic base oil, additive package.

<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>	<u>SARA 313 REPORTABLE</u>
Propreitary-Synthetic Lubricant Base Oil	>94		None
Propreitary Additives	<6		None

## SECTION 3: HAZARDS IDENTIFICATION

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**EMERGENCY OVERVIEW:** This material is not considered hazardous according to OSHA criteria.

**ROUTES OF ENTRY:** Skin contact, inhalation or ingestion.

### POTENTIAL HEALTH EFFECTS

**EYES:** Contact may cause mild eye irritation including stinging, watering, and redness.

**SKIN:** Contact may cause mild skin irritation including redness and a burning sensation. No harmful effects from skin absorption are expected.

**INGESTION:** No harmful effects expected from ingestion.

**INHALATION:** Not expected to be toxic.

**ACUTE HEALTH HAZARDS:** No

**CHRONIC HEALTH HAZARDS:** No

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Skin disorders may be aggravated by exposure.

### CARCINOGENICITY

OSHA: None

ACGIH: None

NTP: None

IARC: None

OTHER:

SECTION 3 NOTES:

## SECTION 4: FIRST AID MEASURES

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**EYES:** If irritation or redness develops, flush eyes with clean water. If symptoms persist, seek medical attention.

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**SKIN:** Remove contaminated shoes and clothing and cleanse affected area(s) thoroughly by washing with a mild soap and water or a waterless hand cleaner. If irritation persists, seek medical attention.

**INGESTION:** First aid is not normally required; however, if swallowed and symptoms develop, seek medical attention.

**INHALATION:** If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** High-pressure hydrocarbon injection injuries may produce substantial necrosis of underlying tissue despite an innocuous appearing wound. Often these injuries require emergency surgical debridement and all injuries should be evaluated by a specialist in order to assess the extent of injury.

Acute aspirations of large amounts of mineral oil-laden material may produce serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

## SECTION 4 NOTES:

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## SECTION 5: FIRE-FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Dry chemical, carbon dioxide, foam, or water spray is recommended.

### SPECIAL FIRE FIGHTING PROCEDURES:

Water or foam may cause frothing of materials heated above 212 F. Carbon dioxide can displace oxygen. Use caution when applying dioxide in confined spaces.

**SPECIAL PROTECTIVE EQUIPMENT:** For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** This material may burn, but will not ignite readily. If container is not properly cooled, it can rupture in the heat of fire.

**HAZARDOUS DECOMPOSITION PRODUCTS:** No data

**Flash Point: C(F) :** >260(500)

**Flammable Limits (approx. % vol. in air)- LEL:** no data, **UEL:** no data

**NFPA HAZARD ID: Health:** 0, **Flammability:** 1, **Reactivity:** 0

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

### ACCIDENTAL RELEASE MEASURES:

#### Personal Precautions:

This material may burn, but will not ignite readily. Keep all sources of ignition away from spill/release. The use of explosion-proof electrical equipment is recommended. Stay upwind and away from spill/release. Notify persons downwind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Wear appropriate protective equipment, including respiratory protection, as conditions warrant.

**Environmental Precautions:** Stop spill/release if it can be done with minimal risk. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Contact appropriate agency for spills into or upon navigable waters that cause a sheen or discoloration on the water surface.

#### Methods for Containment and Clean Up:

Notify fire authorities and appropriate regulatory authorities. Immediate cleanup of any spill is recommended. Dike far ahead of spill for later recovery or disposal. Spilled material may be absorbed into an appropriate absorbent material.

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## SECTION 7: HANDLING AND STORAGE

### HANDLING AND STORAGE:

Wash thoroughly after handling. Use good personal hygiene practices and wear appropriate personal protective equipment. High pressure injection of hydrocarbon fuels, hydraulic oils or greases under the skin may have serious consequences even though no symptoms or injury may be apparent. This can happen accidentally when using high pressure equipment such as high pressure grease guns, fuel injection apparatus or from pinhole leaks in tubing of high pressure hydraulic oil equipment. Do not enter confined spaces such as tanks or pits without following proper entry procedures. Do not wear contaminated clothing or shoes. "Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconitioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

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Use and store this material in cool, dry, well-ventilated areas away from heat and all sources of ignition. Keep container(s) tightly closed. Store only in approved containers. Keep away from any incompatible material. Protect container(s) against physical damage.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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Component	ACGIH	OSHA
Synthetic Lubricant Base Oil	TWA: 5mg/m <sup>3</sup> STEL: 10mg/m <sup>3</sup> as oil mist, if generated	TWA: 5mg/m <sup>3</sup> as Oil mist, if generated

**ENGINEERING CONTROLS:** If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional engineering controls may be required.

**RESPIRATORY PROTECTION:** Where there is potential for airborne exposure above the exposure limit a NIOSH certified air purifying respirator equipped with R or P95 filters may be used. A respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed whenever workplace conditions warrant a respirator's use. Air purifying respirators provide limited protection and cannot be used in atmospheres that exceed the maximum use concentration (MUC) as directed by regulation or the manufacturer's instructions, in oxygen deficient (less than 19.5 percent oxygen) situations, or other conditions that are immediately dangerous to life and health (IDLH).

**EYE PROTECTION:** The use of eye protection that meets or exceeds ANSI Z.87.1 is recommended to protect against potential eye contact, irritation, or injury. Depending on conditions of use, a face shield may be necessary.

**SKIN PROTECTION:** The use of gloves impervious to the specific material handled is advised to prevent skin contact. Users should check with manufacturers to confirm the performance of their products. Suggested protective materials: Nitrile

**OTHER PROTECTIVE EQUIPMENT:** A source of clean water should be available for flushing eyes and skin. Impervious clothing should be worn as needed.

**SECTION 8 NOTES:** State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE:** Clear light amber

**ODOR:** typical petroleum

**PHYSICAL STATE:** Liquid

**pH AS SUPPLIED:** Not applicable

**pH (Other):**

**BOILING POINT:** No data

F:

C:

**FLASH POINT:**

F: >500

C: >260

**METHOD USED:** (ASTM D-92)

**AUTOIGNITION TEMPERATURE:** No data

F:

C:

**MELTING POINT:** No data

F:

C:

**FREEZING POINT:**

F:

C: <-18°C

**VAPOR PRESSURE (mmHg):** <1

@ 20 C :< 0.1

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VAPOR DENSITY (AIR = 1): >1

@

F: 68

C: 20

SPECIFIC GRAVITY (H<sub>2</sub>O = 1): 0.92

@

F: 68

C: 20

EVAPORATION RATE: n/a

BASIS (=1):

SOLUBILITY IN WATER: Negligible

PERCENT SOLIDS BY WEIGHT: n/a

PERCENT VOLATILE: Negligible

BY WT/ BY VOL @

F: 68

C: 20

VOLATILE ORGANIC COMPOUNDS (VOC): no data

WITH WATER:	LBS/GAL
WITHOUT WATER:	LBS/GAL

MOLECULAR WEIGHT: no data

VISCOSITY:

10-15 cSt@100°C, 41-75 cSt@40°C

SECTION 9 NOTES: Data represents typical values and are not intended to be specifications.

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## SECTION 10: STABILITY AND REACTIVITY

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STABLE

UNSTABLE

STABILITY: YES

CONDITIONS TO AVOID (STABILITY): Extended exposure to high temperatures can cause decomposition.

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizing agents

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Combustion can yield carbon oxides, nitrogen oxides and phosphorous oxides.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID (POLYMERIZATION): n/a

SECTION 10 NOTES:

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## SECTION 11: TOXICOLOGICAL INFORMATION

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### TOXICOLOGICAL INFORMATION:

No definitive information available on carcinogenicity, mutagenicity, target organ or developmental toxicity.

<u>Component</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Inhalation LC50</u>
Synthetic Lubricant Base Oil	>5000mg/kg (similar material)	>2000 mg/kg (similar material)	No data

SECTION 11 NOTES:

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## SECTION 12: ECOLOGICAL INFORMATION

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## ECOLOGICAL INFORMATION:

**Ecotoxicity:** Experimental studies with rainbow trout, daphnia, and fresh water algae indicate that synthetic base oils are not expected to be harmful to aquatic organisms.

**Mobility:** Volatilization to air is not expected to be a significant fate process due to the low vapor pressure of this material. In water, this material does not impart any sheen and will float and spread over the surface at a rate dependent upon viscosity. The main fate process is expected to be slow biodegradation of individual components in soil and sediment.

**Persistence and degradability:** Polyalphaolefins (synthesized hydrocarbons) & polyalkylene glycol synthetic base oils are not considered to be readily biodegradable but may be inherently biodegradable. They are expected to completely biodegrade over extended periods of time. Most synthetic polyol esters are considered readily biodegradable and are expected to completely biodegrade over extended periods of time.

**Bioaccumulation Potential:** Not expected to bioaccumulate.

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## SECTION 13: DISPOSAL CONSIDERATIONS

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### WASTE DISPOSAL METHOD:

**Material Disposal:** This product, if discarded as produced, would not be a federally regulated RCRA "listed" hazardous waste. Under most intended uses, would become "Used Oil" due to contamination by physical or chemical impurities.

Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses.

**Container Disposal:** Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand.

**Local Legislation:** Disposal should be in accordance with applicable regional, national, and local laws and regulations.

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## SECTION 14: TRANSPORT INFORMATION

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**U.S. DEPARTMENT OF TRANSPORTATION:** Not regulated

PROPER SHIPPING NAME:  
HAZARD CLASS:  
ID NUMBER:  
PACKING GROUP:  
LABEL STATEMENT:

**WATER TRANSPORTATION:** Not regulated

PROPER SHIPPING NAME:  
HAZARD CLASS:  
ID NUMBER:  
PACKING GROUP:  
LABEL STATEMENTS:  
Note: Federal compliance requirements may apply. See 49 CFR 171.12

**AIR TRANSPORTATION:** Not regulated

PROPER SHIPPING NAME:  
HAZARD CLASS:  
ID NUMBER:  
PACKING GROUP:  
LABEL STATEMENTS:  
Note: Additional Federal compliance requirements may apply. See 49 CFR 171.11

**OTHER AGENCIES:**

**SECTION 14 NOTES:**

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## SECTION 15: REGULATORY INFORMATION

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### CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs (in pounds):

This material does not contain any chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372.

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**311/312 HAZARD CATEGORIES: None**

Acute Health: No  
Chronic Health: No  
Fire Hazard: No  
Pressure Hazard: No  
Reactive Hazard: No

**CERCLA/SARA - Section 313 and 40 CFR 372:**

This material does not contain any chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372.

**EPA (CERCLA) Reportable Quantity (in pounds):**

This material does not contain any chemicals with CERCLA Reportable Quantities.

**California Proposition 65:**

This material does not contain any chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm at concentrations that trigger the warning requirements of California Proposition 65.

**Canadian Regulations:**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the Regulations.

WHMIS Hazard Class

None

**National Chemical Inventories:**

All components are either listed on the US TSCA Inventory, or are not regulated under TSCA.  
All components are either on the DSL, or are exempt from DSL listing requirements.

**U.S. Export Control Classification Number:** EAR99

**SECTION 15 NOTES:**

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**SECTION 16: OTHER INFORMATION**

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**OTHER INFORMATION:**

**PREPARATION INFORMATION:** Issue Date: September 30, 2009

**DISCLAIMER:**

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