

**MATERIAL SAFETY DATA SHEET  
SFR DIESEL FUEL CONDITIONER LUBRICITY/CETANE**

**EMERGENCY TELEPHONE NUMBER:** HMC (Hazardous Material Compliance Corp.)  
(Info-Trac): 1-800-535-5053 \* 352-323-3500.  
Telephone Number for Information: 406-287-7836 \* 1-800-735-6438  
Date Prepared: 02/21/2005

**SECTION 1 – PRODUCT IDENTIFICATION**

**Product Name:** SFR Lubricity/Cetane Diesel Fuel Conditioner  
**Chemical Name:** Mixture  
**Product Appearance:** Product Odor:  
**Classification:** Miscellaneous fuel additive  
**Company Name:** SFR Corporation  
P.O. Box 457  
Whitehall, MT 59759

**SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS**

**Hazardous  
Ingredients**

Comp	CAS #	Percentage (by weight)	Exposure Guidelines						Carcinogen
			OSHA		ACGIH		Other		
			TWA	STEL	TWA	STEL	TWA	STEL	
Petroleum naphtha	64742-95	From 5.5-9.9 %	N/E	N/E	N/E	N/E	100 ppm (1)	N/E	N/E
2-Ethylhexyl nitrate	27247-967	From 70-79.9%	N/E	N/E	25 ppm	N/E	1 PPM (1)	N/E	N/E
Naphthalene	91-20-3	.9%	10ppm	15 ppm	10 ppm	15 ppm	N/E	N/E	IARC Suspect Carcinogen

(S) Skin Exposure, (P) Proposed Limit © Ceiling Exposure, (I) Recommended exposure limit, (U) Supplier recommended exposure limit, (N/E) None Established

**SECTION 3 – HAZARDS IDENTIFICATION  
Principal Hazards WARNING**

- HARMFUL IF INHALED
- MAY CAUSE EYE IRRITATION
- MAY CAUSE SKIN IRRITATION
- CONTAINS COMPONENTS WHICH MAY CAUSE CANCER
- COMBUSTIBLE LIQUID

- **MAY CAUSE CHRONIC HEALTH EFFECTS**
- **EXPLOSIVE REACTION MAY OCCUR ON HEATING OR BURNING**
- See Section 11 for complete health hazard information.

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#### **SECTION 4 – FIRST AID MEASURES**

<b>Oral</b>	DO NOT INDUCE VOMITING. If conscious, give 2 glasses of water. Aspiration of material due to vomiting can cause chemical pneumonitis Which can be fatal. Get immediate medical attention. If vomiting occurs Naturally, the casualty should lean forward to reduce the risk of aspiration.
<b>Eyes</b>	Flush immediately with water for at least 15 minutes. Get immediate medical attention.
<b>Skin</b>	Wash immediately with soap and water. Immediately remove Clothing. Get medical attention if irritation persists. Launder contaminated clothing before reuse and discard shoes and other leather articles saturated with the material.
<b>Inhalation</b>	Remove exposed person to fresh air if adverse effects are observed. If Breathing is labored, administer oxygen. If breathing has stopped, apply artificial respiration. If irritation persists or if toxic symptoms are observed, get medical attention.
<b>Additional Information</b>	Note to physician: Treat symptomatically

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#### **SECTION 5 – FIRE FIGHTING MEASURES**

**Flash Point** 78 Deg. Celsius, 172.4 Deg F PMCC (Typical)

**Extinguishing**

**Media** CO2, dry chemical, or foam. Water can be used to cool and protect exposed material.

**Firefighting Procedures**

Recommend wearing self-contained breathing apparatus. Water may Cause splattering.

## **Unusual Fire & Explosion Hazards**

Toxic fumes, gases or vapors may evolve on burning. Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Container may rupture on heating. Toxic nitrogen oxides may evolve when burning. The alkyl nitrate contained in this product may decompose exothermically if heated above 100° C. Studies

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## **SECTION 6 – ACCIDENTAL RELEASE MEASURES**

### **Spill Procedures**

Evacuate all non-essential personnel. Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Remove sources of ignition. Ventilate spill area. Prevent entry into sewers and waterways. Pick up free liquid for Recycle and/or disposal. Residual liquid can be absorbed on inert Material. Use non-sparking tools. Check under Transportation and Labeling (DOT/CERCLA) and Other Regulatory Information Section (SARA) for hazardous substances to determine regulatory reporting requirements for spills.

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## **SECTION 7 – HANDLING AND STORAGE**

Maximum handling temperature 60 Deg. C. 140 Deg. F

Keep away from potential sources of ignition. Open container in a well ventilated area. Avoid breathing vapors. Keep containers closed when not in use. Do not discharge into drains or the environment, dispose to an authorized waste collection point. Wash thoroughly after handling.

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## **SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Handling Procedures**

Keep away from potential sources of ignition. Open container in a well ventilated area. Avoid breathing vapors. Keep containers closed when not in use. Do not discharge into drains or the environment, dispose to an authorized waste collection point. Use appropriate containment to avoid environmental contamination. DO NOT HEAT. Wash thoroughly after handling. Empty containers to heat, flame, spark or other sources of ignition.

### **Storage Procedures**

Do not store near potential sources of ignition. Store in well ventilated area. Equip bulk storage tanks with overfill protection such as high level alarms or secondary containment. Store drums in area with secondary containment. Storage area should be covered to prevent rain water from

entering. Store at ambient temperatures.

#### **Other Exposure Limits**

Contains mineral oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH STEL of 10 mg per cubic meter. The recommended TWA for 2-Ethylhexyl nitrate is 1 ppm.

#### **Ventilation Procedures**

Use local exhaust ventilation to control mists or vapors. Additional Ventilation or exhaust may be required to maintain air concentrations below recommended exposure limits.

#### **Gloves Procedures**

Nitrile

#### **Eye Protection**

Safety glasses. If potential for splash or mist exists, wear chemical goggles or faceshield.

#### **Respiratory Protection**

Use NIOSH/MSHA approved full face respirator with a combination organic vapor and high efficiency filter cartridge if the recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.

#### **Clothing Recommendation**

Long sleeve shirt is recommended. Wear either a chemical protective suit or apron when potential for contact with material exists. When working with heated material, wear heat protective clothing. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction.

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### **SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

**Flash Point** 78 Deg C, 172.4 Deg F PMCC (Typical)

#### **Explosion Data**

Heating material under confinement may cause an explosion

**Appearance** Brown liquid

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### **SECTION 10 – STABILITY AND REACTIVITY**

**Stability** Material can become unstable at elevated temperatures and pressures

#### **Decomposition**

**Temperature**

Not determined

**Incompatibility**

Strong Oxidizing agents

**Thermal Decomposition**

Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Under combustion conditions, oxides of the following elements will be formed: nitrogen

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**SECTION 11 – TOXICOLOGICAL INFORMATION****Oral Toxicity**

The LD50 in rats is 5000 mg/kg. Based on data from components or similar materials. Swallowing material may cause irritation of the gastrointestinal lining, nausea, vomiting, diarrhea, and abdominal pain.

**Eye Irritation**

Moderate to strong eye irritation. Based on data from components or similar material. Does not meet Canadian D2B or EU R36 criteria.

**Skin Irritation**

Skin irritant. Based on data from components or similar materials. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin. Not expected to meet EU R38 criteria.

**Dermal Toxicity**

The following estimated LD 50 is based on incomplete data on components. The LD 50 in rabbits is >2000 mg/Kg. Based on data from components of this material may cause systemic effects; note toxicity from other sections. Overexposure to organic nitrates by skin contact may cause headache, nausea and decreased blood pressure.

**Inhalation Toxicity**

The following is based on incomplete information on components. Aerosols of this material are considered toxic. Based on data from components or similar materials. High concentrations may cause headaches, dizziness, nausea, stupor, and other central nervous system effects leading to visual impairment, difficulty breathing and convulsions. overexposure to organic nitrates by inhalation may cause headache, nausea and decreased blood pressure.

**Respiratory Irritation**

Nose, throat and lung irritant. Based on data from components or similar Materials. Exposure to a high concentration of vapor or mist is irritating to the respiratory tract. Breathing of vapor or mist may aggravate asthma and inflammatory or fibrotic pulmonary disease.

**Dermal Sensitization**

No data available to indicate product or components may be a skin Sensitizer.

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## SECTION 12 – ECOLOGICAL INFORMATION

### Chronic Toxicity

Repeated overexposure to petroleum naphtha can cause nervous system damage.

### Carcinogenicity

A two year National Toxicology Program (NTP) study found an increased incidence of tumors of the nose in rats exposed to naphthalene by inhalation. In mice similarly exposed, increased incidences of alveolar/bronchiolar adenomas were observed. Naphthalene has been Classified by the International Agency for Research on Cancer as a possible human carcinogen (Group 2B) on the basis of sufficient evidence Of carcinogenicity in experimental animals but inadequate evidence in exposed humans.

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## SECTION 13 – DISPOSAL CONSIDERATIONS

### Waste Disposal

This material, if discarded, is a hazardous waste under RCRA Regulation 40 CFR 261. Waste management should be in compliance with federal, state and local laws. Material, if discarded, is expected to be hazardous waste under RCRA due to ignitability (D001), 0.0009% BENZENE, CAS no. 71-43-2, D018

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## SECTION 14 – TRANSPORTATION INFORMATION

### ICAO/IATA (US)

Not regulated

### ICAO/IATA (International)

Environmentally hazardous substance, liquid, n.o.s. (Alkyl (C7-C9) Nitrates), Class 9, UN3082, PG III, Marine Pollutant

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## SECTION 15 – REGULATORY INFORMATION

### California Proposition 65

This product contains the following chemical(s) known to the state of California to cause cancer and/or birth defects based on maximum Impurity levels of components: <1 ppm Acetaldehyde, CAS no. 75-07-0 9 ppm Benzene, CAS no. 71-43-2 .9% Naphthalene, CAS no. 91-20-3

**U.S. TSCA Inventory**

All components of this material are on the US TSCA Inventory or are Exempt.

**SARA Section 313**

This product does not contain greater than 1% of any chemical substance on the SARA Extremely Hazardous Substance list.

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**SECTION 16 – OTHER INFORMATION****US NFPA Codes**

Health	Fire	Reactivity	Special
2	2	1	N/E

**HMIS Codes**

Health	Fire	Reactivity
2	2	1

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The information and recommendations contained herein are, to the best of SFR Corporation's knowledge and belief, accurate and reliable as of the date issued. SFR Corporation does not warranty or guarantee their accuracy or reliability, and SFR Corporation shall not be liable for any loss or damage arising out of the use thereof. The NFPA ratings recommended are based upon the criteria supplied by the developers of these rating systems, together with SFR Corporation.