# **MATERIAL SAFETY DATA SHEET**

NAME OF PRODUCT CRF

FILE NUMBER: 1955 DATE REVISED: 6/08/11 SUPERCEDES: 6/15/10

### **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: CRF HAZARDOUS MATERIALS IDENTIFICATION SYSTEM

SYNONYMS: PETROLEUM EMULSION

PRODUCT CODES: 1955

MANUFACTURER: TRICOR REFINING, LLC

DIVISION: BAKERSFIELD

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PREPARED BY: TRICOR REFINING, LLC HEALTH, SAFETY AND ENVIRONMENTAL DEPARTMENT

HMIS® HAZARD RATING				
4 - SEVERE	HEALTH	2 *		
3 - SERIOUS	FLAMMABILITY	0		
2 - MODERATE	REACTIVITY	0		
1 - SLIGHT				
0 - MINIMAL				

# **SECTION 2: HAZARDOUS INGREDIENTS / IDENTITY INFORMATION**

CHEMICAL FAMILY: PETROLEUM HYDROCARBON IN WATER EMULSION

HAZARDOUS COMPONENT(S)	CAL-OSHA PEL-TWA (8 HOUR)	ACGIH TLV TWA (8 HOUR)	OTHER LIMITS RECOMMENDED	% BY WEIGHT
Petroleum Asphalt CAS No. 8052-42-4	5 mg/m³	0.5 mg/m³ (As the inhalable fraction)	NIOSH REL 5 mg/m³ (15 minute)	< 46
Heavy Naphthenic Distillate Solvent Extract CAS 64742-11-6	5 mg/m³ for mineral oils	5 mg/m³ (As oil mist)	None	< 31
Distillates (Petroleum), Hydrotreated Heavy Naphthenic CAS No. 64742-52-5	5 mg/m³ for mineral oils	5 mg/m³ (As oil mist)	None	< 29

### **SECTION 3: HEALTH HAZARDS IDENTIFICATION**

ROUTES OF ENTRY: EYES: Yes	SKIN: Yes	INGESTION: Yes	INHALATION: Yes
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### **HEALTH HAZARDS (ACUTE AND CHRONIC):**

**EYES:** No data available.

**SKIN:** Prolonged skin contact may cause irritation.

**INGESTION:** This product is not expected to be acutely toxic by ingestion. If swallowed, do not induce

vomiting. Call a physician.

**INHALATION:** Remove the person to fresh air if respiratory discomfort occurs.

## **MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:**

Persons susceptible to dermatitis (skin rash) may aggravate their condition by skin contact

with this product.

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### **SECTION 4: EMERGENCY AND FIRST AID MEASURES**

**EYES:** Immediately flush eyes with water for a minimum of 15 minutes. Seek medical attention

immediately.

**SKIN:** Wash with soap and water. **INGESTION:** Contact a physician immediately.

INHALATION: If operating conditions create airborne concentrations that exceed the exposure standard, move the

person to fresh air. Administer CPR if required. Provide oxygen if breathing is difficult. Seek

medical attention immediately.

# **SECTION 5: FIRE AND EXPLOSION HAZARD DATA**

**FLAMMABLE LIMITS IN AIR,** UPPER: No data available (% BY VOLUME) UPPER: No data available

FLASH POINT: COC °F: Not applicable

**EXTINGUISHING MEDIA:** Foam, water fog, dry chemical, CO<sub>2</sub>

SPECIAL FIRE FIGHTING PROCEDURES: None HAZARDOUS DECOMPOSITION PRODUCTS:

Normal combustion forms carbon dioxide and water vapor, and may produce oxides of sulfur and nitrogen. Incomplete combustion can

produce carbon monoxide.

# **SECTION 6: SPILL OR LEAK PROCEDURES**

ACCIDENTAL RELEASE MEASURES: In case of spill, clean up using absorbent material such as earth or

sand.

WASTE DISPOSAL METHOD: Observe Federal, State and Local regulations covering chemical waste

spills.

RCRA HAZARD CLASS: This product is not a characteristic hazardous waste under RCRA. No

EPA waste numbers are applicable for this product's components.

### **SECTION 7: HANDLING AND STORAGE**

**VENTILATION:** 

**HANDLING AND STORAGE:** Avoid fire, sparks or open flame. Wear appropriate personal protective

equipment to ensure that this product does not contact the eyes or skin. Use adequate ventilation to keep the airborne concentrations of this

material below the established exposure limits.

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

**RESPIRATORY PROTECTION:** If operating conditions create airborne concentrations that exceed the exposure

standard for mineral oil mists, the use of an approved NIOSH/OSHA respirator for organic vapors or air supplied breathing equipment is recommended.

Hydrogen Sulfide Exposure Limit: ACGIH: (1 PPM) TLV-TWA

(5PPM) TLV-STEL

CAL-OSHA: 10PPM / (14 mg/m³ of air) – PEL

15PPM / (21 mg/m3 of air) - STEL

50PPM - ceiling

**EYE PROTECTION:** Wear appropriate safety glasses, goggles or face shield.

**SKIN PROTECTION:** Long sleeve cotton shirt and cotton pants are recommended. Wear appropriate

gloves.

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

APPEARANCE: Brown

**ODOR:** Petroleum odor

PHYSICAL STATE: Liquid

INITIAL BOILING POINT: Greater than 100 ♦ C (212 ° F)

VAPOR PRESSURE (mmHg): Same as water PERCENT VOLATILE (% BY VOL.): NA VAPOR DENSITY (AIR = 1): Same as water EVAPORATION RATE (WATER = 1): 1

SPECIFIC GRAVITY ( $H_2O = 1$ ): 1.0 SOLUBILITY IN WATER: Readily dispersible

## **SECTION 10: REACTIVITY DATA**

STABILITY: Stable CONDITIONS CONTRIBUTING TO INSTABILITY: None

**INCOMPATIBILITY (MATERIAL TO AVOID):**May react with strong oxidizers.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

Normal combustion forms carbon dioxide and water vapor, and may produce oxides of sulfur and nitrogen. Incomplete

combustion can produce carbon monoxide.

HAZARDOUS POLYMERIZATION: Will not occur

### **SECTION 11: TOXICOLOGICAL INFORMATION**

**CARCINOGENICITY:** ACGIH, NTP, OSHA and IARC carcinogen lists were checked for those components with

CAS Registry Number(s) 8052-42-4, 64742-11-6 and 64742-52-5.

**ACGIH:** Asphalt fumes (coal tar free) are designated as A4 – Not Classifiable As A Human

Carcinogen.

IARC: Bitumens – including undiluted air-refined bitumens are described as "Not Classifiable As

To Its Carcinogenicity To Humans" (Group 3)

Extracts of air-refined bitumens are described as "Possibly Carcinogenic To Humans (Group 2B) (Monograph, Vol. 35, Supplement 7, p. 133). This product contains petroleum oils similar to ones categorized by the International Agency for Research on Cancer as causing skin cancer in laboratory animals when the oil was repeatedly applied for most of the lifetime of the animal with no effort made to remove the oil between applications. Handling instructions and precautions outlined in this MSDS should be followed when

handling this product.

NTP: This product contains no ingredients classified as carcinogens.

OSHA: This product contains no ingredients classified as carcinogens.

**CA PROP 65:** This product contains chemicals in trace quantities that are on the California Proposition

65 List.

### **SECTION 12: ECOLOGICAL INFORMATION**

AQUATIC RELEASE: Advise authorities if product has entered or may enter watercourses or sewer drains.

#### **SECTION 13: DISPOSAL INFORMATION**

WASTE DISPOSAL METHOD: Observe Federal, State, and Local regulations covering product spills.

### **SECTION 14: TRANSPORT INFORMATION**

**U.S. DEPARTMENT OF TRANSPORTATION** 

Not regulated as a hazardous material for transportation.

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### **SECTION 15: REGULATORY INFORMATION**

#### **U.S. FEDERAL REGULATIONS:**

TSCA (TOXIC SUBSTANCE CONTROL ACT) REGISTRY: Listed

#### CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT):

Petroleum emulsions are not a hazardous substance under CERCLA.

### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

Section 302/304: Petroleum emulsions are not a hazardous chemical under 40 CFR Part 355. Petroleum

emulsions are not listed as an extremely hazardous substance in 40 CFR Part 355, and are not known to contain an extremely hazardous substance in a concentration greater

than one percent by weight.

Section 311/312: Acute Health Hazard: No

Chronic Health Hazard: Yes
Fire Hazard: No
Pressure Release Hazard: No
Reactivity Hazard: No

**Section 313**: This product is not known to contain any components in concentrations above *de minimus* 

levels that are listed as toxic in 40 CFR Part 372 pursuant to the requirements of Section

313 of SARA.

WHMIS: D2A

OSHA: 29 CFR 1910.1200 (Hazard Communication) required

**STATE** 

**REGULATIONS:** Mineral oil, petroleum extracts, heavy naphthenic distillate solvent appears on one or

more of the hazardous substances lists in the following states:

MA

### **SECTION 16: OTHER INFORMATION**

The information provided in this Material Safety Data Sheet is believed to be accurate and reliable on and as of the date on page one. However, this Material Safety Data Sheet is not a guarantee or warranty of any kind, express or implied. Any and all warranties of merchantability and/or fitness for a particular purpose are specifically disclaimed. It is the user's responsibility to determine the conditions under which the product is used, including the selection of engineering controls, work practices and Personal Protective Equipment to minimize hazards.

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