SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	CRF	HAZARDOUS MATERIA	ALS IDENTIFICATION S	YSTEM
SYNONYMS:	PETROLEUM EMULSION	HMIS® H	AZARD RATING	
PRODUCT CODES:	1955	4 - SEVERE	HEALTH	2 *
MANUFACTURER:	TRICOR REFINING, LLC	3 - SERIOUS	FLAMMABILITY	0
DIVISION:	BAKERSFIELD	2 - MODERATE	REACTIVITY	0
ADDRESS:	P.O. BOX 5877, BAKERSFIELD, CA 93388	1 - SLIGHT		
EMERGENCY PHONE:	(661) 393-7110	0 - MINIMAL		
PREPARED BY:	TRICOR REFINING, LLC HEALTH, SAFETY AND ENVIRONMENTAL DEPARTMENT			

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/m ³ (As the inhalable fraction)	NIOSH REL 5 mg/m ³ (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):

- 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.
- **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.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Persons susceptible to dermatitis (skin rash) may aggravate their condition by skin contact with this product.

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, (% BY VOLUME) FLASH POINT: COC %F: EXTINGUISHING MEDIA: SPECIAL FIRE FIGHTING PROCEDURES: HAZARDOUS DECOMPOSITION PRODUC	
	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

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.

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.
EYE PROTECTION:	Wear appropriate safety glasses, goggles or face shield.
SKIN PROTECTION:	Long sleeve cotton shirt and cotton pants are recommended. Wear appropriate gloves.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: ODOR: PHYSICAL STATE: INITIAL BOILING POINT:	Brown Petroleum odor Liquid Greater than 100)	
VAPOR PRESSURE (mmHg): VAPOR DENSITY (AIR = 1): SPECIFIC GRAVITY (H ₂ O = 1):	Same as water Same as water 1.0	PERCENT VOLATILE (% BY VOL.): EVAPORATION RATE (WATER = 1): SOLUBILITY IN WATER:	NA 1 Readily dispersible

SECTION 10: REACTIVITY DATA

SECTION 11: TRANSPORT INFORMATION		
HAZARDOUS POLYMERIZATION:	Will not occur	
HAZARDOUS DECOMPOSITION OR BY-PRODUC	TS: Normal combustion forms carbon dioxide and water vapor, and may produce oxides of sulfur and nitrogen. Incomplete combustion can produce carbon monoxide.	
INCOMPATIBILITY (MATERIAL TO AVOID):	May react with strong oxidizers.	
CONDITIONS CONTRIBUTING TO INSTABILITY:	None	
STABILITY:	Stable	

TRANSPORT CANADA:	Not regulated as a hazardous material for transportation.
U.S. DEPARTMENT OF TRANSPORTATION	Not regulated as a hazardous material for transportation.

SECTION 12: 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: Chronic Health Hazard: Fire Hazard: Pressure Release Hazard: Reactivity Hazard:	No Yes No No
Section 313:	This product is not known to contain any components in concentrations above <i>de minimus</i> 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	
UNITED STATES REGULATIONS:	Mineral oil, petroleum extracts, heavy naphthenic distillate solvent appears on one or more of the hazardous substances lists in the following states:	

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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.