

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT INFORMATION

Trade name: **HFRS-2P**
 CAS number: mixture
 Synonyms: Polymer modified anionic asphalt emulsion
 Manufacturer: Russell Standard Corp.
 990 Hazel St.
 Akron, OH 44305

TELEPHONE NUMBERS-24 HOUR EMERGENCY ASSISTANCE:

Chemtrec: 800-424-9300

TELEPHONE NUMBERS- GENERAL ASSISTANCE:

8-5 (M-F, EST) 330-733-9400

SECTION II - HAZARDOUS COMPONENTS

<u>Ingredient</u>	<u>CAS #</u>	<u>Percent</u>	<u>TLV</u>
Asphalt	8052-42-4	> 60 %	5 MG/M3 *
Polymer Modifier	Proprietary	<6%	ND
Water	7732-15-5	25-35%	ND
Emulsifier	Proprietary	<4%	ND

* = as Fumes

SECTION III - PHYSICAL DATA

<u>Property</u>	<u>Refinement</u>	<u>Measurement</u>
Boiling Point	For Product	212 °F /100 C
Vapor Pressure	For Product	23.756 mmHg/77 °F
Vapor Density		ND
Percent Volatile		ND
Evaporation Rate		ND
Appearance		Brown
State		Liquid
Specific gravity		1.002

Solubility in water

DISPERSIBLE

SECTION IV - FIRE & EXPLOSION DATA

Flash Point	:	212 Degrees °F/ 100 °C
Low. Explosive Limit	:	NOT APPLICABLE
Upper explosive limit	:	NOT APPLICABLE
Extinguishing Media:		Regular Foam, Carbon Dioxide, or Dry Chemical.
Hazardous Decomposition	:	May form toxic materials such as Carbon Dioxide, Carbon Monoxide, and various Hydrocarbons.
Fire Fighting Procedures	:	Wear self contained breathing apparatus with full face piece operated by pressure demand or other positive pressure mode.
Unusual Fire and Explosion Data	:	Never use welding or cutting torch on or near drums containing the product. May explode, vapor spreads easily, May ignite, fire hazard increases when temp rises >85 °F.

SECTION V - HEALTH HAZARD DATA

Route of entry- inhalation:	Yes
Route of entry- skin:	Yes
Route of entry- ingestion:	Yes
Carcinogenicity- NTP:	No
Carcinogenicity- IARC:	No
Carcinogenicity- OSHA:	No
Explanation carcinogenicity:	NK

(SECTION V - CONTINUED)

Over Exposure effects:

Eyes	-	Can cause moderate irritation, redness, and tearing.
Inhalation	-	Fumes can cause damage to nasal and respiratory passages.
Ingestion	-	Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea.
Skin	-	Prolonged or repeated exposure can cause moderate irritation, defatting, and dermatitis.

FIRST AID

Eyes	-	Flush with large amounts of water, lifting upper and lower lids. Remove contact lenses if worn. Get medical attention.
Inhalation	-	Remove individual to fresh air. If breathing is difficult, administer Oxygen. If breathing has stopped, give artificial respiration. Keep individual warm and quiet, and get medical attention.
Ingestion	-	Immediately drink 16 oz of water. Don't induce vomiting unless advised by Dr. Get medical attention.
Skin	-	Remove contaminated clothing. Wash clothing with soap and water before reuse.

SECTION VI - REACTIVITY DATA

Hazardous Polymerization	:	Can Not Occur
Stability	:	Stable
Incompatibility	:	Avoid contact with strong oxidizing agents.

SECTION VII - SPILL OR LEAK PROCEDURES

- Small Spill: Absorb liquid on paper, vermiculite, floor absorbent, or other absorbent material. Transfer material to a disposal container, and dispose of in accordance with Local, State, and Federal regulations.
- Large Spill: Prevent run off to sewers, streams, or other bodies of water. If run off occurs, immediately notify all proper authorities and agencies as required. Persons not wearing protective equipment should be excluded from the spill area until clean up is completed. Material may be taken up with sand, earth, floor absorbent, or other absorbent material. Shovel into containers and dispose of in accordance with Local, State, and Federal regulations.

SECTION VIII - PROTECTIVE EQUIPMENT

- Respiratory Protection: If the TLV of a product or any component is exceeded, a NIOSH/MSHA jointly approved air supply respirator is advised in the absence of proper environment control. OSHA regulations also permit other NIOSH/MSHA respirators under specific conditions. Engineering or administrative controls should be implemented to reduce exposure.
- Ventilation : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV (s).
- Protective Clothing : To prevent repeated or prolonged skin contact wear resistant gloves such as Neoprene coated and impervious boots.
- Eye Protection : Chemical splash goggles in accordance with OSHA regulations are advised. However, OSHA regulations also permit other types of safety glasses. Contact your safety equipment supplier.

SECTION IX - HANDLING AND STORAGE

- ** Containers of this material may be hazardous when empty. Empty containers retain product residue (vapor, liquid, and or solid) and all hazard precautions given in this data sheet must be observed.
- ** Do not use pressure to empty drum or explosion may result.
- ** Keep containers closed.
- ** The information accumulated herein is believed to be accurate but is not warranted to be whether originating with Russell Standard Corporation or not. Recipients are advised to confirm in advance of the need that the information is current, applicable, and suitable to their circumstances.

NFPA CODES : HEALTH - 0 FLAMMABILITY - 1 REACTIVITY - 0