



SDS #: 450

DATE REVISED: 12/22/2016
SUPERSEDES ANY PREVIOUS

Section 1 Product Identification/Contact Information

Generic Category: **Polymer Modified Cationic Emulsified Asphalt**
Product Name(s): CHR-3P, CRS-1P, CRS-3P, CRS-1HP, CRS-1P DIL, CRS-1HP DIL, CRS-2D, CRS-2L, CRS-2P, CRS-2P(f), CRS-2R, LMCQS-1H, LMCRS-2, LMCRS-2A, LMCRS-2H, CSS-1P, CSS-1HP, CQS-1H Latex, CQS-1HP, CQS-1HL, CQS-1P, PMCQS-1H, PMCSS-1NV, CHFRS-2, CHFRS-2P, CHFE-150, CMS-1P, CMS-2P, MSE, PA-AS1, PMCRS-2H, PMPS, PMPS-H, PMPS-QB, PMPS-QB DIL, PMEM, PMRE, PMRE CR-F, PMRE-H, PASS, PASS CR, PASS CRH, PASS ER, PASS ER DIL, PASS QB, PASS QB DIL, PASS R, PASS MAXX CR, PASS MAXX QB, PASS MAXX QB DIL, PASS EDGE, QS-1HH, Rapid Curing Fog, ProRap, FastSet, FastSet DIL,
Formula: Trade Secret
Company Address: Western Emulsions, Inc.
P.O. Box 50538
Idaho Falls, ID 83405
PHONE: (208) 524-5871
EMERGENCY PHONE: **Chemtrec (800) 424-9300**
Product Use: Road Paving and Resurfacing

Section 2 Hazard(s) Identification

OSHA/MSHA Hazard Communication: This product is considered by OSHA/MSHA to be a hazardous chemical and should be included in the employer's hazard communication program
Classifications: Skin Irritation – Category 2
Eye Irritation – Category 1
Carcinogenicity – Category 2
Signal Word: WARNING
Hazards: May cause irritation and burns to skin and eyes when brought in contact.
Inhalation: This product is not likely to present an inhalation hazard during normal use. At elevated temperatures and in confined spaces, vapors may cause irritation of the respiratory tract.
Skin Absorption: No significant symptoms indicative of skin absorption expected.
Skin Irritation: Will cause burns when product is hot. May cause dermatitis and acne like lesion with prolonged exposure.
Ingestion: Ingestion of this material can cause severe irritation or burns of the mouth, throat, esophagus, and stomach. May cause nausea and vomiting.
Eye Contact: Will burn and irritate.
Primary Route of Exposure: Skin and eye contact are the primary routes of exposure to this product.



Carcinogen:

The International Agency for Research on Cancer (IARC) concluded that occupational exposures to asphalt fume during paving operations are "possibly carcinogenic to humans" (Group 2B).

Section 3	Composition/Information on Ingredients
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<u>Ingredients</u>	<u>CAS #</u>	<u>Concentration</u>
Asphalt Cement	8052-42-4	<80%
Polymer Additives	Trade Secret	< 8%
Naptha	8030-30-6	< 12%
No. 1 Fuel (Kerosene)	8008-20-6	< 5%
Cationic Emulsifier	Trade Secret	< 5%
Hydrochloric Acid (Hydrogen Chloride)	7647-01-0	< 2%
Hydrogen Sulfide	7783-06-4	< 0.1%
Polycyclic aromatic hydrocarbons	130498-29-2	< 0.1%
Water	7732-18-5	Balance

Section 4	First Aid Measures
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Inhalation: Remove to fresh air. Give oxygen or artificial respiration as needed. Obtain medical attention promptly.

Eye Contact: Flush eyes with low pressure water for at least 15 minutes and obtain medical attention immediately.

Skin Contact: If hot product should contact skin, thermal burns will result. Immediately cool the affected area with cold water. It is not advisable to immediately remove product. Natural separation will occur in 48 - 72 hours. Removal should be attempted only under the direction of a physician.

Ingestion: If ingested, do not induce vomiting, call a physician immediately.

Section 5	Fire Fighting Measures
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Flash Point: Not Available

Autoignition Temperature NFPA: Not Available

Extinguishing Media: Dry Chemical, CO₂, Class "B" extinguisher or foam.

Special Fire Fighting Procedures: Avoid breathing vapors, wear self-contained breathing apparatus. Use of foam or water may cause frothing. Avoid using straight water streams.

Unusual Fire Explosion Hazards: Do not heat material above 100°C (212°F) to avoid generating excessive steam pressure.

Fire & Explosion Hazards: This product is not defined as flammable or combustible.

Hazard Rating:	HMIS	NFPA	Hazard Rating Scale	
Health:	2	2		
Fire:	1	1	0 - Minimal	3 - Serious
Reactivity	0	0	1 - Slight	4 - Severe
Special Fire Fighting Procedures:	0	0	2 - Moderate	

Section 6**Accidental Release Measures**

- Notification and Personal Precautions:** In the event of a spill or accidental release, immediately contact emergency personnel and notify relevant authorities in accordance with all applicable regulations. If the release of this material to the environment could reach any waterway including intermittent dry creeks, contact the National Response Center at (800)424-8802.
- Land Spill:** Stop release by making earthen dike, prevent flow from entering sewers and water ways. Allow to cool. Remove large spill. Soak up product with sand.
- Waste Disposal:** Handle in accordance with federal, state and local regulations.

Section 7**Handling and Storage**

- Precautions for safe handling:** Wear appropriate personal protective equipment (see Section 8). Avoid prolonged exposure. Use only in well-ventilated areas. Trace amounts of hydrogen sulfide, a very highly toxic gas, may be present with this material. Keep face clear of tank and/or tank car openings. Open hatches with caution. Wash hands and contaminated areas with water and soap before leaving the work site.
- Conditions for safe storage:** Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in original tightly closed container. Store in a well-ventilated place. Do not allow material to freeze.

Section 8**Exposure Controls/Personal Protection**

Chemical Name	PEL (OSHA)	STEL (OSHA)	STEL (NIOSH)	TWA (ACGIH)
Asphalt Cement Fumes				0.5 mg/m ³
Naptha	100 ppm		100 ppm	
No. 1 Fuel (Kerosene)			100 mg/m ³	
Hydrochloric Acid		5 ppm		
Hydrogen Sulfide		20 ppm	5 ppm	1 ppm

- Respiratory Protection:** Avoid breathing vapors in confined spaces. NOISH approved respirators may be required if TLV's are exceeded.
- Eye Protection:** Use safety glasses, goggles or face shields.
- Skin Protection:** PPE selection based on the specific use conditions. When handling product at elevated temperatures, use long-cuffed heat resistant gloves. When product is at ambient temperatures, use gloves constructed of chemical resistant materials such as heavy nitrile rubber. Use coveralls, impervious apron and long sleeved shirts and wear impervious footwear
- Engineering Controls:** Local exhaust ventilation may be required to meet exposure standards in confined areas.
- Handling Precautions:** Storage tanks and trucks must be emptied, cooled, ventilated, and tested for absence of vapors before allowing personnel entry.

Section 9**Physical & Chemical Properties**

Boiling Point:	> 100°C (212°F)	Vapor Density (Air= 1) :	>1
Specific Gravity @ 15.6°C(60°F):	0.95 to 1.03	Evaporation Rate (nBuAc = 1):	<1
Viscosity:	< 2000 mPas at 60°C (140°F)	Solubility in Water:	Up to 100%
Melting Point:	Not Established	Vapor Pressure (mm Hg):	<1
Appearance and Odor:	Viscous brown to black liquid; mild hydrocarbon odor		

Section 10**Stability and Reactivity**

Stable:	YES
Conditions to Avoid:	Open flame, sparks and extreme heat. Do not heat above 93.3°C (200 °F). Avoid freezing.
Incompatible Materials:	Avoid strong oxidizing agents.
Hazardous Decomposition Products:	Combustion may form CO ₂ , CO and sulfur dioxide.
Hazardous Polymerization:	Will not occur.

Section 11**Toxicological Information****Information on likely routes of exposure**

Ingestion:	Expected to be a low ingestion hazard.
Inhalation:	Prolonged inhalation may be harmful.
Skin contact:	Thermal burn hazard.
Eye contact:	Harmful in contact with eyes.

Information on toxicological effects**Acute toxicity**

Ingredient	Result	Species	Dose	Exposure
Asphalt	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Fuel, No.1	LC50 Inhalation Vapor	Rat	>5.28 mg/l	5 hrs
	LD50 Oral	Rat	>5000 mg/kg	-
	LD50 Dermal	Rabbit	>2000 mg/kg	-

Irritation/Corrosion: Not available.

Carcinogenicity

NTP: Asphalt (CAS-No.: 8052-42-4), may contain trace amounts of benzene a chemical known to cause cancer.
No. 1 Fuel (Kerosene) (CAS-No.: 8008-20-6), may contain chemicals known to cause cancer.

IARC: Asphalt (Bitumen) (CAS-No.: 8052-42-4) Group 2B possibly carcinogenic to humans
No. 1 Fuel (Kerosene) (CAS-No.: 8008-20-6), Group 2B possibly carcinogenic to humans.

OSHA: Asphalt (CAS-No.: 8052-42-4), may contain trace amounts of benzene a chemical known to cause cancer.
 No. 1 Fuel (Kerosene) (CAS-No.: 8008-20-6), may contain chemicals known to cause cancer.

Teratogenicity

Specific target organ toxicity (single exposure):

Ingredient	Category	Route of exposure	Target Organs
Hydrolic Acid	Category 3	Not Applicable	Respiratory tract irritation

Specific target organ toxicity (repeated exposure):

Ingredient	Category	Route of exposure	Target Organs
Fuel, No.1	Category 2	Skin	Bone marrow, liver and thymus

Aspiration hazard: Not Available

Information on the likely routes of exposure: Routes of entry anticipated: Oral, Dermal, Inhalation.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects: Not Available

Potential delayed effects: Not Available

Long term exposure

Potential immediate effects: Not Available

Potential delayed effects: Not Available

Potential chronic health effects

General: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates: Not Available

Section 12 Ecological Information

Eco-toxicity: This material is not expected to have a significant adverse effect on the environment

Product Species Test Results

Ingredient	Result	Species	Exposure
Hydrolic Acid	Acute LC50 240000 µg/l Marine water	Crustaceans - Carcinus maenas - Adult	48 hours
	Acute LC50 282 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours
Hydrogen Sulfide	Acute EC50 62 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus	48 hours
	Acute LC50 2 µg/l Fresh water	Fish - Coregonus clupeaformis - Yolk-sac fry	96 hours

Persistence and degradability: No data is available on the degradability of this product.
Bioaccumulative potential: No data available.
Mobility in soil: No data available.
Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Section 13	Disposal Consideration
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Disposal: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14	Transportation Information
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DOT/TDG

Proper shipping name: Not Regulated
 UN-No.: -
 Class: -
 Packing group: -
 Hazard inducer: -

Section 15	Regulatory Information
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CERCLA (Comprehensive Environmental Response Compensation and Liability Act): This product is not listed as a CERCLA hazardous substance.

SARA Title III (Superfund Amendments and Reauthorization Act): This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 and is considered to be an acute health hazard (irritation).

EPRCA SARA Section 313: This product contains none of the substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

TSCA: This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

California Prop. 65: This product and/or its components are not listed in California's Proposition 65.

Section 16**Other Information**

Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information in this SDS was obtained from sources which we believe reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness.

The conditions or methods of handling, storage, use and disposal of the products are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

This SDS was prepared and is to be used only for these products. If the product is used as a component in another product, this SDS information may not be applicable.

This SDS has been prepared in accordance with the requirements of the OSHA Hazardous Communication Standard (29 CFR 1200)