

SAFETY DATA SHEET Western Emulsions, Inc.

SDS #: 350

DATE REVISED: 12/22/2016 SUPERSEDES ANY PREVIOUS

Section 1 Product Identification/Contact Information

Generic Category: Anionic Emulsified Asphalt

Product Name(s): AE150S_SD, HFE-90, HFE-100s, HFE-100P, HFE-150, HFE-300P,

HFE-500, HFMS-2, HFMS-2P, HFRS-2, HFRS-2P, HFSB, PEP, R-1000, RS-1,

RS-1H, SS-1, SS-1H, SS-1H DIL, SS-1HH

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 This product is considered by OSHA/MSHA to be a hazardous chemical and

Communication: should be included in the employer's hazard communication program

Classifications: Skin Irritation – Category 2

Eye Irritation – Category 2 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.

Carcinogen:

Primary Route of Exposure: Skin and eye contact are the primary routes of exposure to this product.

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

CAS#	Concentration
8052-42-4	< 70%
Trade Secret	< 8%
8030-30-6	< 5%
8008-20-6	< 10%
68476-34-6	< 20%
Trade Secret	< 5%
1310-73-2	< 2%
7783-06-4	< 0.1%
130498-29-2	< 0.1%
7732-18-5	Balance
	8052-42-4 Trade Secret 8030-30-6 8008-20-6 68476-34-6 Trade Secret 1310-73-2 7783-06-4 130498-29-2

Section 4 First Aid Measures

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

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		
Health:	2	2	Hazard Rating Scale	
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	
Sodium Hydroxide	2 mg/m ³		2 mg/m³	2 mg/m ³
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: $> 100^{\circ}\text{C} (212^{\circ}\text{F})$ Vapor Density (Air= 1): >1Specific Gravity @ 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 200 °F

(93.3°C). Avoid freezing.

Incompatible Materials: Avoid strong oxidizing agents.

Hazardous Decomposition Products: Combustion may form CO₂, 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:

Ingredient	Result	Species	Score	Dose	Observation
Sodium	Eyes - Severe irritant	Monkey	-	24 hours 1	-
Hydroxide				Percent	
	Eyes - Mild irritant	Rabbit	-	400 micrograms	-
	Eyes - Severe irritant	Rabbit	-	24 hours 50	-
				micrograms	
	Eyes - Severe irritant	Rabbit	-	1 percent	-
	Eyes - Severe irritant	Rabbit	-	0.5 minutes 1 mg	-
	Skin - Mild irritant	Human	-	24 hrs 2 percent	-
	Skin - Severe irritant	Rabbit	_	24 hrs 500 mg	-

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): Not Available

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

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

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

DOT/TDG

Proper shipping name: Not Regulated

UN-No.: Class: Packing group: Hazard inducer: -

Section 15

Regulatory Information

CERCLA (Comprehensive Environmental Response

Compensation and Liability Act):

SARA Title III (Superfund Amendments and Reauthorization

Act):

This product is not listed as a CERCLA hazardous substance.

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)

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